

Registered Post

From

The Director General,
Mines and Geology Haryana,
Plot No. 9, I.T. Park, Sector-22,
Panchkula.

To

M/S MSK JV,
S-571 Greater Kailash ,part-II,
New Delhi-110048.

Memo No. DMG/HY/ML/Atelakalan /MP/2021/ 2100
Dated Panchkula , the 24-03-2022

Subject: Approval of Mining Scheme along with Progressive Mine Closure Plan under Rule 70(1) of the State Rules, 2012 in respect of village Atelakalan, District Charkhi Dadri for Stone along with Associated Minor Mineral over an area of 54.00 hectares of M/S MSK JV, New Delhi.

Reference your letter dated 08.09.2021 on the above noted subject.

2. Vide letter under reference, the Mining Scheme along with Progressive Mine Closure Plan in respect of an area of 54.00 hectares of land in village Atelakalan District Charkhi Dadri was submitted for approval, **for the enhancing production capacity**, keeping in view of the availability of mineable reserves of Atelakalan lease area .

3. In exercise of the powers conferred by Rule 69 of the Haryana Minor Mineral Concession, Stoking, Transportation of Minerals and Prevention of Illegal Mining Rules, 2012, , I hereby approve the above said Mining Scheme along with Progressive Mine Closure Plan in respect of Stone along with associated Minor Minerals over an area of 54.00 hectares of land situated in village Atela kalan, District Charki Dadri. This approval is subject to the following conditions:-

- (i) That this Mining Scheme and Progressive Mine Closure Plan is approved without prejudice to any other laws applicable to the mine/area from time to time whether made by the Central Government or State Government or any other authority;
- (ii) That this approval of the "Mining Scheme along with Progressive Mine Closure Plan" of Mining does not in any way imply the approval of the State Government in terms of any other provisions of the Mines and Minerals (Development & Regulation) Act, 1957 or Haryana Minor Mineral Concession, Stoking, Transportation of Minerals and Prevention of Illegal Mining Rules, 2012 or any other law including Forest (Conservation) Act, 1980 and Environment Protection Act, 1986 and rules framed there under;
- (iii) That this "Mining Scheme along with Progressive Mine Closure Plan" is being approved on the basis of data provided by you. In case, at any point of time any ambiguity in the same is found, the approval will be revoked with suspension of the mining operations and will be allowed to resume operation only after modification/rectification of the same, if so required.
- (iv) That this "Mining Scheme along with Progressive Mine Closure Plan" is approved without

prejudice to any other order or direction from any court of any competent jurisdiction and is for a period of five years only and shall not be make you entitled for any extension of the lease period;

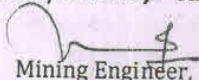
Revised Green Area Plan

(v) That all the norms and provisions as envisaged in the Mining Scheme would be adhered to during the working of mine, and The total allotted area is 54.00 hectare out of which 33% of the total area i.e. 17.82 hectare will be cover under plantation at the end of the mining.

(vi) That the Financial Assurance of Rs. 8,10,000/- (Rs. Eight lac ten thousand only) as The mine was started under the 15th Amendment of the Haryana Mines Act, 2014. The details of plantation already carried out in 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, shall be furnished within a period of 60 days or before start of mining operations, whichever is earlier.

4. Further, the actual mining for the enhanced production will be allowed to be commenced only after Prior Environmental Clearance from the Competent Authority as required under EIA notification dated 14/9/2006, as amended from time to time by the MoE&F, GoI and guidelines/ circulars issued in this behalf. Till such time other approvals are obtained the M/S MSK JV shall undertake mining as per already approved mining plan only.

Encl: Mining Scheme & Progressive
Mine Closure Plan (2 copies)


Mining Engineer,
for Director General, Mines and Geology,
Haryana.

Registered Post

Endst. No. DMG/HY/ML/Atelakalan /MS/2021/

Dated:

A copy along with a copy of the dully approved Mining Plan and Progressive Mine Closure Plan is forwarded to the Director Mines Safety, Room No. 201-203, 2nd Floor, B-Block, CGO Complex-II, Hapur Road, Ghaziabad for information and necessary action.

Encl: Mining Scheme & Progressive
Mine Closure Plan

- sd -
Mining Engineer,
for Director General, Mines and Geology,
Haryana.

Registered Post

Endst. No. DMG/HY/ML/Atelakalan /MS/2021/

Dated:

A copy along with a copy of the dully approved Mining Sheme and Progressive Mine Closure Plan is forwarded to the Mining Officer, Mines and Geology Department, CharkhiDadri for information and necessary action.

Encl: Mining Scheme & Progressive
Mine Closure Plan

- sd -
Mining Engineer,
for Director General, Mines and Geology,
Haryana.

Endst. No. DMG/HY/ML/Atelakalan /MS/2021/

Dated:

A copy is forwarded to Shri Kireet Acharya 70/30 Patel marg, Manasa sarovar Jaipur, 302020(Raj).

- sd -
Mining Engineer,
for Director General, Mines and Geology,
Haryana.

MODIFIED MINING SCHEME

INCLUDING

PROGRESSIVE MINE CLOSURE PLAN

(Submitted Under Rule 70 (1) of Haryana Minor Mineral Concession, Stocking, Transportation of Minerals and Prevention of Illegal Mining Rules, 2012)

OF

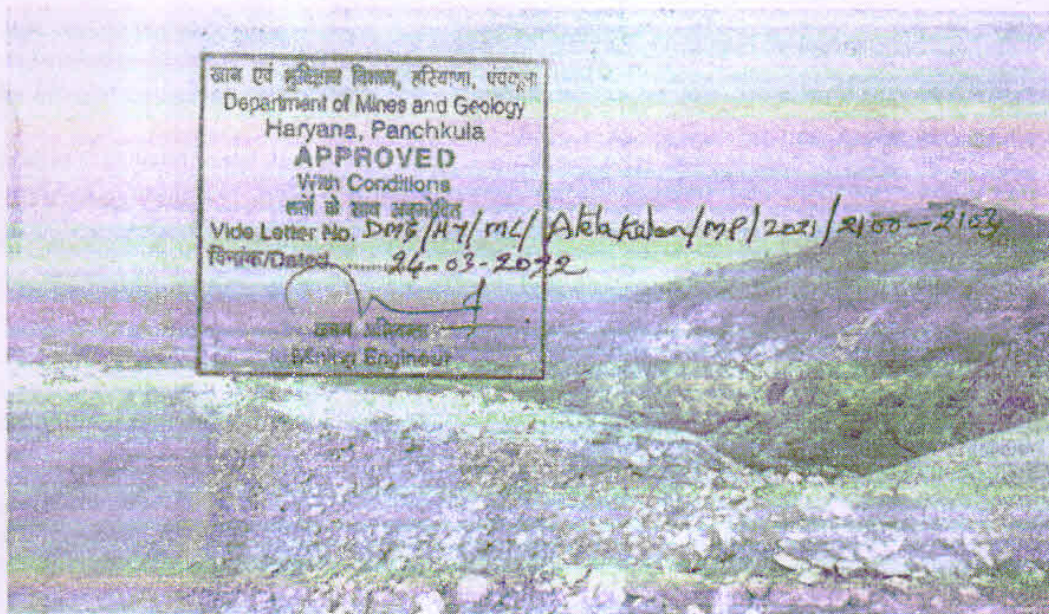
ATELA KALAN STONE MINE

VILLAGE- ATELA KALAN, TEHSIL- CHARKHI DADRI, DISTRICT- BHIWANI,
STATE-HARYANA

TOTAL LEASE AREA - 54.00 Ha. (NON-FOREST)

LEASE PERIOD: 12 YEARS FROM THE DATE LOI

PERIOD OF MINING PLAN: 2020 to 2025 (5 years)



APPLICANT

M/s MSK JV

S-571 Greater Kailash Part II
New Delhi 110048

E-mail: abhishek@mkeindia.com

PREPARED BY

Kireet Acharya

RQP/AJM/230A/2003

70/30 Patel Marg, Mansarovar Jaipur 302020

Phone 0141-2786183, 9414163053, acharyaki2@gmail.com



Authorized Signatory

Registered Post

From

The Director General,
Mines and Geology Haryana,
Plot No. 9, I.T. Park, Sector-22,
Panchkula.

To

M/S MSK JV,
S-571 Greater Kailash, part-II,
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- (iv) That this "Mining Scheme along with Progressive Mine Closure Plan" is approved without

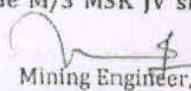


prejudice to any other order or direction from any court of any competent jurisdiction and is for a period of five years only and shall not be make you entitled for any extension of the lease period;

- (v) That all the norms and provisions as envisaged in the Mining Scheme would be adhered to during the working of mine; and
- (vi) That the Financial Assurance of Rs. 8,10,000/- (Rs. Eight lac ten thousand only) as required under the provisions of Rule 71(6) of "Haryana Minor Mineral Concession, Stocking, Transportation of Minerals & Prevention of Illegal Mining Rules, 2012, shall be furnished within a period of 60 days or before start of mining operations, whichever is earlier.

4. Further, the actual mining for the enhanced production will be allowed to be commenced only after Prior Environmental Clearance from the Competent Authority as required under EIA notification dated 14/9/2006, as amended from time to time by the MoE&F, GoI and guidelines/circulars issued in this behalf. Till such time other approvals are obtained the M/S MSK JV shall undertake mining as per already approved mining plan only.

Encl: Mining Scheme & Progressive
Mine Closure Plan (2 copies)


Mining Engineer,
for Director General, Mines and Geology,
Haryana.

Registered Post

Endst. No. DMG/HY/ML/Atelakalan /MS/2021/

Dated:

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Mining Engineer,
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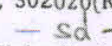
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Mining Engineer,
for Director General, Mines and Geology,
Haryana.

Endst. No. DMG/HY/ML/Atelakalan /MS/2021/

Dated:

A copy is forwarded to Shri Kireet Acharya 70/30 Patel marg, Manasa sarovar Jaipur, 302020(Raj).


Mining Engineer,
for Director General, Mines and Geology,
Haryana.



AUTHORISATION

I, Abhishek Kumar, Authorized Signatory for M/S MSK JV Atela Stone Mines, Charkhi Dadri, Haryana 127026, hereby authorize Shri Kireet Acharya (RQP/AJM/230/2003/A) prepare the Modified Mining Scheme including Progressive Mine Closure Plan (Review & Mining scheme) under Haryana Minor Mineral Concession, Stocking, Transportation of Minerals and Prevention of Illegal Mining Rules, 2012, in respect of minor mineral mines of "Stone along with associated minor minerals" of "Atela Kalan" over an area of 54.00 hect. in Tehsil Charkhi Dadri, District Bhiwani, State Haryana of M/S MSK JV.

I request the Director General, Department of Mines & Geology, Govt. of Haryana, Chandigarh, to make further correspondence regarding re-submission/ modification / withdrawal and to collect the approved copies of the aforesaid Modified Mining Scheme Including Progressive Mine Closure Plan with the said recognized person on his following address:-

Sh. Kireet Acharya
70/30 Patel Marg,
Mansarovar
Jaipur 202020 (Raj.)
Mobile No. 9414163053
Email - acharyak12@gmail.com




(Abhishek Kumar)
Authorized Signatory
for M/S MSK JV

Place: Jaipur

Date:





Mines at Atela Kalan/Jhojhu Kalan In
Distt. Charkhi Dadri, Haryana

Mining of Stone alongwith Minor Minerals

Certificate

We, M/S MSKJV, Atela Stone Mines, Atela Kalan. The Project Proponent undertake that the revised enhanced production of 8.50 MT P.A. shall be carried only after obtaining revised Environmental Clearance (with enhanced capacity) from the competent Authority. Till then, the production shall be carried in accordance with the previously approved Mining Plan and Environmental Clearance dated 11.06.2015



For MSK JV

Authorized Signatory



Ward No. 1, MC Colony, Charkhi Dadri, Haryana - 127306
Telephone : 7027800700, E-mail : info@mskjb.in

CERTIFICATE FROM QP

The provisions of the Mineral Conservation and Development Rules 2017 made under Section 18 of the Mines & Minerals (Development & Regulation) Act 1957, have been observed in the preparation of the modified Mining scheme and PMCP for Atela Kalan stone mine over an area of 54.0 Ha, of M/S MSK (JV) S-571 Greater Kailash ,Part II New Delhi 110048, in village Atela Kalan, Tehsil Charkhi Dadri, District Bhiwani and Haryana State and whenever specific permissions are required, the applicant will approach the concerned authorities of State Mines and Geology Department . The information furnished in the Modified mining Scheme and PMCP are true and correct to the best of our knowledge.



(Kireet Acharya)

(RQP/AJM/230/2003/(A)

KIREET ACHARYA
RQP/AJM/230A/2003

Place: Jaipur

Date:



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LIST OF ANNEXURE

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1.	Letter of Authorization by owner for preparation of mining plan to Qualified person	Annexure-1
2.	Copy of LOI, Mining Lease Deed with Map	Annexure-2
3.	Copy of MoEF&CC letter for Environment Clearance	Annexure-3
4.	Copy of Air & Water Consent Given By State Govt.	Annexure-4
5.	Copy of Aadhar Card and Pan Card of Owner/Authorized Signatory	Annexure-5
6.	Copy of Qualification and Experience of Qualified Person	Annexure-6
7.	Copy of permission from DGMS for Deep hole Drilling and Blasting along with use of HEMM	Annexure-7
8.	Copy of Magazine License	Annexure-8
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MODIFIED MINING SCHEME AT GLANCE		
1	Name of the Applicant /lessee	M/S MSK (JV)
2	IBM Registration no	---NA---
3	Address of Applicant	M/S MSK (JV)
4	Name of Mine	Atela Kalan Stone Mine (ML Area 54.00 Ha.)
5	Mine No.	-----
6	Lease area in hectares	54.00 Ha.
7	Forest area	NIL
8	Name of Mineral	Masonry stone
9	Lease period from to	Ten years w.e.f date of grant of EC by competent authority or on expiry of a period of 12 months fro the date of issue of LOI
10	Plan proposal period	2020 to 2025 (5 years)
11	Mineral Reserve (111, 121 & 122) in tonnes	56784373 Tons
12	Mineral Resources (211, 221,222, 331, 332, 333 & 334) in tones	1500000 Tons
13	ROM Production proposal 2020-21 in tonnes	6000000 Tons
14	ROM Production proposal 2021-22 in tonnes	8500000 Tons
15	ROM Production proposal 2022-23 in tonnes	8500000 Tons
16	ROM Production proposal 2023-24 in tonnes	8500000 Tons
17	ROM Production proposal 2024-25 in tonnes	8500000 Tons
18	OE & Waste handling proposal 2020-21 in Ton	0.00 Tons



19	OE & Waste handling proposal 2021-22 in Ton	0.00Tons
20	OE & Waste handling proposal 2022-23 in Ton	0.00 Tons
21	OE & Waste handling proposal 2023-24 in Ton	0.00 Tons
22	OE & Waste handling proposal 2024-25 in Ton	0.00 Tons
23	Present EC permission in tonnes	6.0 MTPA
24	Proposed expansion of modified Mining Scheme	8.50MTPA
25	Plantation proposal per years in numbers	2500 per year
26	Plantation area per year in no (ha).	0.50 Ha.
27	Back filling proposal in hectares in per years	0.00Ha.
28	Check Dams numbers in five years	Nil
29	Garland drain in meters five years	0.00 m.
30	Settling ponds (Numbers)	Nil
31	Area put to use at end of five years in ha.	36.16 Ha.
32	Any other important information	Three shift working for drilling and loading



After obtaining EC and Consent for Air, water and Hazardous substances were also taken from the state PCB (Annexure-4) and finally the applicant started the mining work from May 2015. Mining lease agreement was carried out on 22.9.2015 and registration of lease as carried out on 26.11.2015.

Initially the lessee started working in the area having old worked out pits of the size for which no history /record is available .The broken area of P-1 pit admeasuring 360 mx 125 m, covering an area 4.50 Hectares and Pit P-2 680 x 47 area 3.20Ha. The present Lease holder commenced mining to produce 6.00 MTPA from this area w.e.f. May, 2015, by systematic & scientific way deploying heavy earth moving machineries. The mineral produced was sent to the crushers operating nearby lease area.

After working for 5 years in the said area applicant submitting Modified Mining scheme for the period 2021-2025, this is required to get approval for obtaining expansion in EC from MOEF&CC. The present document is submitted for obtaining capacity enhancement in Environment Clearance from SEIAC Haryana from 6.0 MTPA to 8.50 MTPA for balance lease period / plan period (2021-2025) . Modified Mining scheme proposal under compliance of Haryana Minor Mineral Concession, Stocking and Transporting of Minerals and Prevention of Illegal Mining Rules- 2012 and as per EIA notification 2006 are being submitted.



1.0 GENERAL INFORMATION

a.)	Name of the Lessee	M/s. MSK (JV).
	i) Nominated Owner	Mr. Abhishek Kumar (Authorized Signatory)
	ii) Head Office	M/s. MSK (JV) Atela Kalan, Charkhi Dadri, Haryana-127026 Phone:7027742936 e-mail: pinku.ranjan@mkeindia.com
	iii) Registered Office	M/s. MSK JV. P.O. Atela Kalan ,Tehsil – Charkhi Dadri Distt. Bhiwani, Haryana Phone : 7027742936 Email id – pinku.ranjan@mkeindia.com
	iv) Site address	M/s. MSK JV. P.O. Atela Kalan ,Tehsil – Charkhi Dadri Distt. Bhiwani, Haryana Phone : 9131699308 Email id – mksk@mkeindia.com
	Rule 45 IBM Registration Number	---NA---
	Mining Lease code	---
b.)	Status of the Applicant	It is a Joint Venture Company of following entities 1.MKE :- It is a mining contracting company having 25 years of experience of operating mines 2. Shivalaya Construction:- It is a construction company having experience of road and building construction 3. Khatushyam Crushing :- It is a crushing operating company having experience of producing crushed stocks and marketing of building materials
	Name of the JV partners	1.Mahesh Pahel S/o Om Prakash



		2. Abhishek Kumar S/o Sanjay Kumar 3. Pradeep Nandal S/o Sumer Singh Nandal Photo indentify of partners/directors are placed as Annexure-5.
c.)	Minerals which are included in the PL	Stone and associated minerals
d.)	Mineral (s) which is/are included in the Lease Deed	Stone along with associated minor minerals
e.)	Minerals which are the lessee indents to mine	Masonry Stone with associated minor minerals
f.)	Name of Qualified person , who prepare the Mining Plan with PMCP- Lessee appointed following qualified person for preparation the Mining plan with PMCP. Whose qualification and experience are placed as under (Annexure-6). Sh. Kireet Acharya 70/30 Patel Marg, Mansarovar Jaipur 202020 (Raj.) Mobile No. 9414163053 Email: - acharyak12@gmail.com	
g.)	Name of a Person employed under clause 1 of Sub rule (1) of rule 42 of MCDR, 1988 (Applicable for Scheme of Mining only)	Statutory mining persons are employed as per Rules of MCDR, 2017 and Regulations of MMR-2016.
	Address-	1.Shri B.K. Kushwaha, Mines Manager First Class (R) c/o MSK (JV) P.O. Atela Kalan ,Tehsil Charkhi Dadri District Bhiwani, Haryana Phone : 8709588421
	Phone number /mobile number	2.Shri Ashok Kumar 2nd Class Manager c/o MSK (JV) P.O. Atela Kalan ,Tehsil Charkhi Dadri District Bhiwani Haryana
	Fax Number	
	Registration Number	
	Date of Grant /Renewal	



2.0 LOCATION AND ACCESSIBILITY

	Lease details	The mine (54.00 hect.) is a open cast fully mechanized mine of stone granted in favour to M/s. MSK (JV) in 2014 by bidding process and a mining plan was approved vide letter no. DMG/HY/Atela Kalan /MP/4154 dated 15.09.2014. The lease deed was executed on 13.1.2015 (Annexure-2).
a)	Name of mine	Atela Kalan Stone mine MSK (JV) Stone Mine.
b)	Mine code	-
c)	Location of mine/ area Village, Tehsil, Police station - Post office District, PIN	Atela Kalan Charkhi Dadri Charkhi Dadri Atela Kalan Charkhi Dadri 144514
d)	Details of applied/ lease area with location plan-	Granted Lease area 54.00 hect (Location plan is enclosed as (Plate-1))
	Forest (Specify)- Protected- Notified-	There is no forest land, The lease area falls in gram Panchyat land, A Govt. Land.
	Non Forest a) Govt.waste land b) Grazing Land c) Agriculture land d)Others (specify) Total area	54.00 hect.(Gram Panchayat) Nil NIL NIL 54.00 hect.
	Area	54.00 hect.
	Khasra no	103,104,105,106 and 107 Govt. Land (Gram Panchayat) (Key Plan is enclosed as Plate 2.)
e)	Whether the area falls under Coastal Regulation Zone (CRZ)? If yes, details Thereof	NA
f)	Existence of public road/railway line, if any nearby and approximate distance-	Lease area is about 15 km NW of Charkhi Dadri tehsil head quarter and nearest railway station at Bhiwani on Broad gauge Rewari Bhiwani section



2.0 LOCATION AND ACCESSIBILITY

	Lease details	The mine (54.00 hect.) is a open cast fully mechanized mine of stone granted in favour to M/s. MSK (JV) in 2014 by bidding process and a mining plan was approved vide letter no. DMG/HY/Atela Kalan /MP/4154 dated 15.09.2014. The lease deed was executed on 13.1.2015 (Annexure-2).
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	Forest (Specify)- Protected- Notified-	There is no forest land, The lease area falls in gram Panchyat land, A Govt. Land.
	Non Forest a) Govt.waste land b) Grazing Land c) Agriculture land d)Others (specify) Total area	54.00 hect.(Gram Panchayat) Nil NIL NIL 54.00 hect.
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	Khasra no	103,104,105,106 and 107 Govt. Land (Gram Panchayat) (Key Plan is enclosed as Plate 2.)
e)	Whether the area falls under Coastal Regulation Zone (CRZ)? If yes, details Thereof	NA
f)	Existence of public road/railway line, if any nearby and approximate distance-	Lease area is about 15 km NW of Charkhi Dadri tehsil head quarter and nearest railway station at Bhiwani on Broad gauge Rewari Bhiwani section



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.

The area is bounded by coordinates between latitude 28°34'14" to 28°34'50" and longitude 76°05'35" to 76°06'17" on Topo sheet No.53-D/2, as approved by Department of Geology and Mining, Govt. of Haryana with latitude & longitude vide of all twelve corner boundary point/pillar are considered as under.

Pillar	Latitude	Longitude
BP-1	28°34'39.02"N	76°05'38.24"E
BP-2	28°34'41.00"N	76°05'52.20"E
BP-3	28°34'41.20"N	76°06'05.30"E
BP-4	28°34'41.90"N	76°06'05.90"E
BP-5	28°34'42.11"N	76°06'08.13"E
BP-6	28°34'40.19"N	76°06'07.10"E
BP-7	28°34'37.08"N	76°06'04.28"E
BP-8	28°34'36.81"N	76°06'04.48"E
BP-9	28°34'40.19"N	76°06'08.13"E
BP-10	28°34'24.53"N	76°06'13.90"E
BP-11	28°34'10.94"N	76°05'59.22"E
BP-12	28°34'23.37"N	76°05'45.60"E



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

Date and reference of earlier approved MP/SOM					
S.N	Type of document & rule under which prepared	Approval letter no & date	Lease area for which approval given (ha)	Date of Approval	Proposal from - to
a)	Mining Plan under Rule Haryana Miner Mineral Concession, Storage, Transportation and prevention of illegal Mining rules -2012) For fresh grant of lease area.	Mining plan was approved vide letter no. DMG/HY/Atela Kalan /MP/4154 dated 15.09.2014	54.00 Ha.	3.12.2014	5 years
b)	Modified Mining Scheme	-	applied for	-	-
c)	Details of last modifications if any (for approved MP/SOM, indicating date of approval, reason for modification the previous approved period) of				
	First mining plan was approved by Department of mines and geology for 60,00,000 tons of ROM.The mining plan was approved without changes in the proposed production plan vide order No. DMF/HY/Atela kalan/MP/2014/5553-56 dated 03.12.2014 and now modified Mining scheme for next five years is being submitted in view of expansion in proposals				
	REVIEW OF EARLIER APPROVED PROPOSAL-				
	Items	Proposals	Achievement	Remarks	
a)	Exploration for Geological axis 1 or 2.	Detailed exploration has been already been carried out to prove the reserves, No further	No exploration carried out, thus reserve status remain unchanged	No deviation observed	



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

Date and reference of earlier approved MP/SOM					
S.N	Type of document & rule under which prepared	Approval letter no & date	Lease area for which approval given (ha)	Date of Approval	Proposal from - to
a)	Mining Plan under Rule Haryana Miner Mineral Concession, Storage, Transportation and prevention of illegal Mining rules -2012) For fresh grant of lease area.	Mining plan was approved vide letter no. DMG/HY/Atela Kalan /MP/4154 dated 15.09.2014	54.00 Ha.	3.12.2014	5 years
b)	Modified Mining Scheme	-	applied for	-	-
c)	Details of last modifications if any (for approved MP/SOM, indicating date of approval, reason for modification the previous approved period) of				
	First mining plan was approved by Department of mines and geology for 60,00,000 tons of ROM.The mining plan was approved without changes in the proposed production plan vide order No. DMF/HY/Atela kalan/MP/2014/5553-56 dated 03.12.2014 and now modified Mining scheme for next five years is being submitted in view of expansion in proposals				
	REVIEW OF EARLIER APPROVED PROPOSAL-				
	Items	Proposals	Achievement	Remarks	
a)	Exploration for Geological axis 1 or 2.	Detailed exploration has been already been carried out to prove the reserves, No further	No exploration carried out, thus reserve status remain unchanged	No deviation observed	



	Bore holes - Trail pits & Trenches-	exploration was proposed in last approved mining plan .	except depletion	
b)	Number of pits proposed for production	Mining was proposed from the existing pit. Single working pit is observed in the lease area and the working was proposed from southern end to advancing in northern direction.	Mining was done as proposed.	No deviation observed
c)	Location of Development	Along section lines A-A',B-B',C-C, and D-D'	The mining was continuing from west to east direction as proposed in the approved Plan: (Surface Plan -3)	No deviation observed
d.	Top Soil			
	Year	Proposed	Achievement	Remarks
	First Year	30x30 sq. meters	30x30	Top soil consumed for green belt development and plantation
	Second Year	0	0	
	Third year	0	0	
	Fourth Year	0	0	
	Fifth Year	0	0	
	Total	0	0	
e)	Quantity of overburden (T)			
	Year	Proposal	Achievement	Remarks
	First year	0	0	No deviation found
	Second year	0	0	



	Third year	0	0	
	Fourth year	0	0	
	Fifth year	0	0	
	Total	0	0	
f)	Quantity of Reject			
	Year	Proposal @2% of ROM	Achievement	Remarks
	First year	0	0	Due to fluctuation in demand the quantity varied Rejects are as OB
	Second year	0	0	
	Third year	0	0	
	Fourth year	0	0	
	Fifth year	0	0	
	Total	0	0	
g)	Quantity of ROM production in Tonnes			
	Year	Proposal Million Tons	Achievement	Remark
	First year	4.278	3501734.67	Due to fluctuation in demand the quantity varied
	Second year	6.00	3711184.31	
	third year	6.00	2769603.71	
	Fourth year	6.00	4067042.04	
	Fifth year	6.00	2299602.75	
	Total	28.278	16349167.48	
h)	Production of Saleable Stone in tonnes			
	Year	Proposal Million Tons	Achievement * Million Tons	Remark
	First year	4.278	3501734.67	Due to fluctuation in demand the quantity
	Second year	6.0	3711184.31	



	Third year	6.0	2769603.71	varied	
	Fourth year	6.0	4067042.04		
	Fifth year	6.0	2299602.75		
	Total	28.278	16349167.48		
i)	Layout parameters				
	Item	Proposal		Achievement *	Remark
j)	Height of benches width of benches Bench Slope	Height 9 mts in mineral, Bench width > 11 mts. 15° from Vertical		Height 9 mts in mineral, Bench width > 11 mts. 15° from Vertical	No deviation found
k)	Total area put in use under different heads at the end of 5 th year	26.30 hect.		32.30 hect. ,	
l)	Location of topsoil dumps	Top soil will be stacked in the area in 30x30sq. area		Top soil consumed in plantation and green belt development	No deviation found
m)	Location of OB & mineral reject dumps	There was a proposal for OB stacking in 8000 sq. meter area		There is no OB ,All is saleable	No deviation found
n)	Stacking of mineral	140x100 sq.m meter area was earmarked for stacking of mineral to accommodate approx. 280000 Ton of fine ROM		There is no stock of mineral found as finding direct use from the pit head	No deviation found
o)	Length of Retaining wall, garland drain, and fencing along dump	660 mtr. dimension retaining wall and drain and 1220 meter fencing proposed to developed along top soil storage		Garland drain and Retaining wall is maintained	No deviation found



p)	Area under backfilling of mined out area	No back filing proposal was there as mineral exits in pit	Back filling was not done , temporary storage of fines as Ordinary earth	No deviation found
q)	Plantation /Afforestation	700 plants per year were proposed in view of 70% survival in 3.40 hect. per year area during five years.	Total 1312 no. of plant were survived in five years period for green belt of 7.5 meter wide lease boundary and along haul road, office area.	Deviation found
r)	Number of settling ponds	Not proposed	None	No deviation found
s)	Processing of mineral	Part of the ROM was proposed to be sized by use of crusher, rest to be sold to nearby crushing units	Part of ROM is sent to crushers rest quantity is directly sent as lumps	No deviation is found
	Financial assurance	As per agreement condition no.6, It was proposed to deposit Fund in Joint account of Govt. against reclamation and rehabilitation	Every 7 th of month PP is depositing applicable amount in fund	No deviation found



r) Review of Financial Assurance

S.No.	Item Details	Proposed for use	Actual area as on date Dec. Feb. 2020	Remarks
i.	Area under Mining	28.30	32.30	32.30 hect area has been the broken area for mining and rest area is as unused
ii.	Storage of top soil	0.8	0.8	Soil generated during the last 5 years was spread over the area and plantation done over the reclaimed area. No storage is kept.
iii.	Waste dump site	-	-	Entire waste generated during last 5 years have been sold as Ordinary earth , part of OE is lying temporarily , which is planned to sell .
v.	Mineral Storage	1.2	1.2	No mineral stack was proposed as mineral produced from the mine dispatched the plant, no stacking is done.
vi.	Infrastructure, Work shop, Admin: Building etc	0.18	0.18	Office and other infrastructure facilities are already made outside lease (in adjoining lease).
vii.	Roads	0.18	0.18	
viii.	Railways	-	-	
ix.	Tailing Pond	-	-	
	Effluent Treatment Plant-	-	-	
x.	Mineral Separation Plant	-	-	
xi.	Township area	-	-	
xii.	Green belt	3.40	3.37	



xii	Others (Undisturbed)	19.84	18.15	
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Give status of compliance of violations pointed out				
Sr no	Date of inspection	Violation date	Rule violated	Compliance status
1.	Mining was done as per MMDR Act and Haryana Minor Mineral Concession stocking and transporting of minerals and prevention of illegal mining rules -2012 and No violation was pointed out by State and Central Authorities			
s	Indicate and give details of any suspension /closure/ prohibitory order issued by any Government agency under any rule or Court of law No suspension order was issued.			
t	In case the MP/SOM is submitted under rules 9 and 10 of the MCDR'88 or under rule 17(2) of the MCR'2016 for approval of modification, specify reason and justification for modification under these rules. No Modification was sought by applicant during the past plan period			



PART - A

1. GEOLOGY AND EXPLORATION

Briefly describe the Topography, drainage pattern, vegetation, climate, rainfall data of the lease area

a) Topography & Physiography:

The granted mining lease area is located 15 Km. Northwest of Charkhi Dadri. The allotted area for is a hilly terrain with old mining pits P-1 and P-2 in past with some undulations and thin soil patches. It mainly comprises of Quartzite as the main country rock. The highest altitude of the area is 401 mRL and lowest general ground altitude is 239 mRL. The level difference is 162 mtr. It is government panchayat land granted under auction rules. There is no protected or reserved forest in the lease area. General drainage pattern is towards North Eastern part of the allotted area. There is no habitation within allotted area and there are no water body, dry nala, river, and reiveulets.

Vegetation

The allotted area is free from any type of vegetation only few local bushes are present nearby mining allotted area.

Climate and Rainfall

The climate of the Bhiwani district is classified as tropical steppe, semi-arid and hot which is mainly dry with very hot summer and very cold winter except during monsoon season when moist air of oceanic origin penetrates into the district. The hot weather season starts from mid March to last week of June followed by the South-West monsoon which lasts up to September. The transition period from September to October forms the post-monsoon season. The winter season starts late in November and remains up to first week of March.



The normal annual rainfall of the district is 420mm which is unevenly distributed over the area for about 22 days. The South West monsoon sets in from last week of June and withdraws in end of September, contributed about 85% of annual rainfall. The months of July and August are the wettest. Rest 15% rainfall is received during non-monsoon period in the wake of Western disturbances and thunder storms. Generally rainfall in the district increases from South West to North East

Brief descriptions of Regional Geology with reference to location of lease/applied area.

b) Regional Geology

The rocks of Delhi Supergroup constitute a part of the main Aravalli Range originating from Gujarat in the southwest to Haryana in the northeast. This super group comprises thick pile of meta-sediments having a cumulative thickness of 6000 m which is divided into an older Alwar Group and younger Ajabgarh Group. The Alwar Group is dominantly arenaceous with argillaceous intercalations while the Ajabgarh Group is dominantly argillaceous with arenaceous and calcareous components. The demarcation between the groups, in the absence of any unconformity, is based on facies variation, structural discontinuity and lithological characteristics in the rocks exposed in the adjacent state of Rajasthan. The rocks of both these groups are intruded by acid and basic Intrusive. The rocks of Alwar Group in Haryana are represented by Bayal- Panchnota Formation, after the type locality in Bayal and Panchnota villages, which is equivalent to Pratap garh Formation, the youngest formation of Alwar Group in Rajasthan. The rocks belonging to this group are exposed in two sectors in south western and southeastern Haryana. In the southwestern sector these rocks are exposed as linear NE - SW trending ridges consisting of quartzite. These ridges are exposed in Bayal-Panchnota, Sareli-Tehla- Mukundpura, Ruppursarai - Narhedi, Sohla, Nimbi, Narnaul, Khodana and Kaliana areas. In the southeast, prominent exposures are found around Khori Khurd, Khori Kalan and Shikarpur. The regional strike varies from $N15^{\circ}E-S15^{\circ}W$ to $N45^{\circ}E-S45^{\circ}W$ with vertical to steep dips to the NW or SE. The metapelitic rocks exposed in Tosham area are associated with rhyolite and granite, and are tentatively clubbed under undifferentiated



Ajabgarh Group, till further classification. The detailed stratigraphic sequence of the Delhi Super group of rocks in Haryana is given in below Table .

Super Group	Group	Formation	Lithology
Delhi Supergroup	Ajabgarh Group	Tasing Formation	Slate with minor phyllite
			Phyllite, carbonaceous phyllite, slate, rhythmite with quartzite
			Phyllites, slate, quartzite (locally)
		Asarwas Formation	Current bedded quartzite with
			Phyllite
			Sericite quartzite with slate and
			Phyllite
		Thanaghazi Formation	Carbonaceous Phyllite with ash/tuff bands
		Deota-Dantal Formation	Brecciated quartzite interbedded with schist and phyllite
		Golwa-Gangutana Formation	F Quartzite, amphibole quartzite and mica-schist

		E	Impure marble, calc amphibole-schist and amphibole quartzite
		D	Tremolite marble with quartzite, K-feldspar biotite-schist and magnetite quartzite
		C	K-feldspar mica-schist



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			B	Garnet-schist, Kyanite-schist, banded marble and calc-silicate
			A	K-feldspar biotite schist, marble, amphibole quartzite, biotite schist
	Alwar Group	Bayal-Panchnota Formation		Cross bedded ripple marked quartzite Massive, Feldspathic, gritty quartzite, amphibolite, amphibole -quartzite, minor Marble, chlorite-schist etc.

c) Local Geology: Detailed description of Geology of the lease area such as shape and size of the mineral deposit, disposition various litho-units indicating structural features if any etc. :-

Local Geology of the area

Geologically, rocks of the allotted area are belonging to Alwar Group. Quartzite is the major litho-unit in the area. It belongs to the Bayal-Panchnota Formation which is mainly comprised of quartzite with intercalation of mica- schist, amphibole- quartzite, Minor kyanite- schist, garnet- schist, chlorite- schist, Fe-Mg amphibole- schist, impure marble, amphibolite, silimanite- schist and porphyroblastic K- feldspar schist.

The quartzite varies from being massive to thickly and thinly bedded and are commonly micaceous in nature. In massive varieties, bedding is indistinct and is mostly identified on the basis of partings of mica- schist or rare color banding/ laminations. The strike of quartzite is N20°-25° E and dipping 45°-60° due east .In general, bedding is parallel to the schistosity. The quartzite is, commonly white to dirty white and locally very fine grained, with occasional malachite stains and primary sulphides like pyrite, pyrrhotite and chalcopryrite. Impression of kyanite crystals are noted on bedding planes of quartzite from Bayal and Sohla.



The quartzite exposed in the area under consideration is of Alwar & Ajabgarh groups. It is of good quality & suitable to be used as building material. As per G.S.I. miscellaneous publication No. 30: Part XVIII, several quarries all along the Ajabgarh group exist in the districts of Faridabad, Gurgaon, Rohtak, Mahendergarh etc. This quartzite is being quarried for railway ballasts & concrete aggregates whereas the fissile quartzite of Mahendergarh district is used for roofing & other masonry blocks. At places, lenses of iron ore mainly magnetite occur in black quartzite whereas at some places the quartzite of Ajabgarh group in the area is weathered and formed sand, which is being used as Bajri in construction work. The quartzite occurring to the west of Atela is weathered as high grade silica sand as it is left behind by the change in the course of the Yamuna River.

Ordinary earth is found within the fractures and crevices of rocks with is generally devoid of humus and considered as sub soil .DMG Haryana granted permission to sell IB and ordinary earth as associated mineral generated as incidental recovery vide letter no.DMG/HY/ML//Narnaul /2013/707 dated 2.2.2016

The stratigraphic sequence of the litho-unit present in the area is as follows:

Sub Recent-Recent		Alluvium
Alwar Group	Bayal-Panchnota Formation	Hard, Black, Banded Hematite

To understand the structural configuration of the allotted area, surface geological mapping has been done on a scale of 1:2000. Geological cross-sections and longitudinal section have been prepared on a scale 1:2000. During mapping it is observed that the mineralization is having general strike of N30°E – S30°W with steep dip of mineralization and country rock is 75° – 80° due SE

d.) Name of prospecting /exploration agency-



Department of Geology and Mines Haryana has discovered Stone occurrences in the area after finding some illegal mining in and around area. Finding mineral exposed on the ground and wide out cropping the area was put to auction. No detailed exploration was done in the area considering low priced mineral.

e.) Details of prospecting/exploration already carried out:

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

No pit or trenches were excavated in the lease area for exploration. At present mining pit and working pits are fully developed up to bottom most (240 mRL) suggesting continues presence of mineral.

2.) No. of bore hole indicating type(core/RC/DTH) diameter, spacing inclination, collar level, depth etc. with standard borehole logs duly marked on geological plan and sections

No Bore hole/ DTH /RC holes were given in the area for exploration purpose.

3) Details of samples analysis.

In case of economic significance the face sample of the area to be analyzed by NABL accredited lab. as per MEMC Rules 2015, But being a low cost mineral the regular physical and chemical testing of masonry stone is not required.

4.) Expenditure incurred in various prospecting operations.

No expenditure incurred on exploration as mineralization is exposed very well and also further exposed on account of mining pit.

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



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and size of the area duly marked by grid lines showing all features indicated under Rule 32(1) of MCDR 2017.

Surface plan is enclosed as Plate 3.

g.) For preparation of geological plan, surface plan prepared on a scale of 1: 1000 or 1: 2000 scale specified under para 1.0 (f) of Part A of the format may be taken as the base plan. The details of exploration already carried out along with supporting data for existence of mineral, locations proposed exploration, various litho-units along with structural features, mineralized/ore zone with grade variation if any may be marked on the geological plan along with other features indicated under Rule 32(2) of MCDR 2017.

Surface Geological plan is enclosed as Plate-4.

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

Surface Geological sections are enclosed as Plate-4.

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

The area is fully exposed with the mineral resources and confirmed with the result of drilling contemporary to mining operations time to time, as apart of exploration. Sufficient data are there to prepare the mining scheme for next five year thus, No additional exploration is proposed in the area

j.) Total Geological, Mineable/ Recoverable Reserves & Resources as per UNFC classification



Estimated mineral resources in last approved Mining plan documents as on 03.12.2014 were as under:-

United Nations Frame-work of Classification	UNFC Code	Quantity In Million tonnes	Grade
(1)	(2)	(3)	(4)
A Mineral Reserve			
(1) Proved Mineral Reserve	111	32859300	Building construction purpose
(2) Probable Mineral Reserve	121 & 122	41479240*	
B Remaining Resources			
(1) Feasibility Mineral Resource	211	0.0	
(2) Pre-Feasibility Mineral Resource	221 & 222	0.0	
(3) Measured Mineral Resource	331	0.0	
(4) Indicated Mineral Resource	332	0.0	
(5) Inferred Mineral Resource	333	0.0	
(6) Reconnaissance Mineral Resource	334	0.0	
Total Mineral Resources (A + B)		74338540	
Mineable reserves @90% Recovery		66904686	

* probable and Possible reserves (40141200+1338040)

As per past plan the Geological reserves of proved category (111) category are 32859300 Tons and probable category reserves (121 & 122) are 41479240 Tons and mineable reserves at 90% recovery are 66904686 Tons. As no exploration was done in the area thus the status of reserves remains the same as it was on 15.09.2014. The produced mineral will be subtracted to arrive the balance reserves.



Signature

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Kireet Acharya
Qualified Person

k.) Furnish detailed calculation of reserves /resource section wise of reserves

The Total Geological, Mineable/ Recoverable Reserves & Resources as per UNFC classification are now shown in Table Below (as on 01.01.2020) .Total Depleted Reserves in first five year period are 16,349167.48 Tons thus balance reserves as on Feb 2020 are given in table. The details of calculation of Reserves are placed as Annexure -

l.) Mineral Reserves /Resources

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

There is no threshold value declared by IBM for masonry stone.

Level of exploration	Resources in Million tons	Grade
G-1 Detailed exploration	32859300	Masonry stone grade
G-2 General exploration	41479240	
G-3 Prospecting	-	
G-4 Reconnaissance	-	

Resources and reserves within the lease may be arrived after applying results /Feasibility /prefeasibility study and economic valuation of deposit based on various factors such as :

a) Mining method, recovery factor, mining losses, processing factor

Open cast mechanized using heavy machineries mining method is proposed and recovery factor for saleable stone is considered s 98% , only 2% waste is likely to be generated on account of fine chips and inter mixed subsoil , which will be also saleable.

b) Cut off grade, ultimate pit depth proposed

No cut off grade is there as all mineral is saleable



Signature of Kireet Acharya

Kireet Acharya
Qualified Person

Year	Past Proposal	Production in T. (last five years)
2015-2016	4.278	3501734.67
2016-2017	6.00	3711184.31
2017-2018	6.00	2769603.71
2018-2019	6.00	4067042.04
2019-2020	6.00	2299602.75*
Total	28.278	16349167.48

(*Up to Jan., 2020)

Anticipated life of mine:

1)	Total Balance mineable reserves on Feb 2020 (111+121)	=	58289373 Tons
3)	Production booked during for next five years	=	40,000000 Tons
4)	Balance reserves	=	18289373 Tons
5)	Balance Life	=	25284373/85000000 $\approx$ 2.15 years
6)	Total Remaining Life	=	7.15 Years= 8.0yrs approx.*

*Life of the mine is likely to increase with the additional quarrying data



2.0 MINING

OPEN CAST MINING:

a.) Briefly describe existing and proposed method of excavation with all design parameters indicating plans and sections

Fully mechanized opencast mining method is adopted in this mine to ensure the continuous supply of desired quantity and quality of stone to the nearby consumers in three shift working

Broken area doesn't have top soil and overburden whereas newly exposed area will be having negligible quantity of top soil. Top soil comprise fine clay, thickness ranging from 0.10-0.50 meter (Average 0.30 meter) occurring at places is joints and crevices is being scrapped carefully either by dozers alone or by combination of dozer, excavator and dumpers. The underlying stone is excavated in benches each of 9.0 meters. The working bench width is kept more than 11 m having pit slope 45° and non-working benches are kept 9x11 meters. The stone is excavated by deep hole drilling & blasting and mineral is loaded by excavator into dumpers.

The rock breaker will primarily be deployed in to the first benches, which are severely infested with contaminants as well as in the areas close to pit limits for safety reasons. Rock breaker will also facilitate better segregation and recovery of use-able stone from the areas and to avoid the secondary blasting.

7.1.2) Proposed method of Mining

The existing method of mining is proposed by mechanized Open cast method of mining by formation of systematic benches in mineral it will remain continue. Haulage road and ramps will be further developed during the mining with combination of dozer, excavator and dumpers. The underlying stone will be excavated in benches of 9 m in depth in succession; the bench width is kept more than 9 m in working bench having pit slope 45°.more. Transportation of Stone from face to consumer is being done by 30-50 Ton capacity dumpers/tippers whereas negligible inter burden waste is temporarily stacked and directly loaded in to dumpers/tippers for disposing off back fill purpose at consumer end. However the width will be less in case of non-working bench up to 9x11 meters.



Based on past experience the quantity of associated mineral is considered as 2 % as Ordinary earth. It will be used as associated mineral.

Working for next five years for Stone development and production is proposed from northern end. Drilling, loading activities will be taken up in three shifts where as blasting will be taken up in day hours only with all preventive measures. Adequate lighting arrangement will be made by mobile portable lighting towers

Targeted Quantity of Masonary stone yearly to be produced during next five years (2020-2025)

Year	ROM in MTPA	Total Stone in MTPA@ 98%	Associated mineral MTPA @2%
2020-21	6.00	5.88	0.12
2021-22	8.50	8.33	0.17
2022-23	8.50	8.33	0.17
2023-24	8.50	8.33	0.17
2024-25	8.50	8.33	0.17
TOTAL	40.0	39.20	0.80

Existing method of working will be as below-

The following parameters will be continued for proposed plan period.

Particulars	Existing method
Bench height	This is running mine fully developed. Working is confined to one pit only. Bench height is kept 9 meters, there is no change in parameters
Bench width	The working bench width will be more than 9-20 meters for the movement of heavy machineries and non working bench will be kept 9 meters
Mining method	Proposed mining method will be mechanized opencast mining, using Excavators, Loader, and Dozer with deep hole drilling and controlled blasting.
Transportation of	Transportation of mineral from face to consumers will be done by



mineral	30-50 Ton dumpers, no intermediate stacking, sorting and blending will be done. The mineral will be loaded into dumper/truck, the approach path will be extended up to the face.
Bench slope Approach to faces/benches	On account of very compact rocks bench slope will be about 85° from horizontal. The haul road will be extended up to working face. The haul road will be min. 16 m wide and at a gradient of 1:16.

b.) Indicate year-wise tentative Excavation indicating development, ROM, pit wise as in table below

Insitu excavation of year 2020-2021:-

Year	Section Line	Bench RL	Sectional Area	Average Height in m	Influence	Total Excavation in CUM	BD-2.5	ROM in T	Mineral in T	Top soil M ³
20-2021	A1-A2	369-362	185	9	50	9250	2.5	23125	23125	2775
	A1-A2	362-353	332	9	66	21912	2.5	54780	54780	
	A1-A2	353-344	672	9	70	47040	2.5	117600	117600	
	A1-A2	344-335	904	9	88	79552	2.5	198880	198880	
	A1-A2	335-326	977	9	88	85976	2.5	214940	214940	
						Total		609325		
	B1-B2	393-380	378	9	100	37800	2.5	94500	94500	
	B1-B2	380-371	575	9	100	57500	2.5	143750	143750	
	B1-B2	371-362	960	9	100	96000	2.5	240000	240000	
	B1-B2	362-353	1197	9	100	119700	2.5	299250	299250	
	B1-B2	353-344	1139	9	100	113900	2.5	284750	284750	
	B1-B2	344-335	1254	9	100	125400	2.5	313500	313500	
	B1-B2	335-326	1387	9	100	138700	2.5	346750	346750	
						Total		1722500		
	C1-C2	393-380	673	9	97	65281	2.5	163203	163203	
	C1-C2	380-371	689	9	100	68800	2.5	172000	172000	
	C1-C2	371-362	1025	9	100	102500	2.5	256250	256250	
	C1-C2	362-353	1020	9	100	102000	2.5	255000	255000	
	C1-C2	353-344	1231	9	100	123100	2.5	307750	307750	
	C1-C2	344-335	1247	9	100	124700	2.5	311750	311750	



C1-C2	335-326	1367	9	100	136700	2.5	341750	341750	
						Total	1807703		
D1-D2	371-362	376	9	55	20680	2.5	51700	51700	
D1-D2	362-353	846	9	70	59220	2.5	148050	148050	
D1-D2	353-344	1095	9	60	65700	2.5	164250	164250	
D1-D2	344-335	1342	9	100	134200	2.5	335500	335500	
D1-D2	335-326	1462	9	100	146200	2.5	365500	365500	
						Total	1065000		
E1-E2	382-371	248	9	136	33728	2.5	84320	84320	
E1-E2	371-362	349	9	150	43625	2.5	109062.5	109062.5	
E1-E2	362-353	499	9	125	62375	2.5	155937.5	155937.5	
E1-E2	353-344	375	9	125	84375	2.5	210937.5	210937.5	
E1-E2	344-335	760	9	124	94086	2.5	235215	235215	
						Total	795473		
TOTAL					2400000		600000	600000	2775

Insitu excavation of year 2021-2022:-

Year	Section Line	Bench RL	Section al area	Averag e Height in m	Influenc e	Total Excavatio n in CUM	(BD- 2.5)	ROM in T	Mineral in T	Top soil M3
2021- 22	A1-A2	326 to 317	1175	9	50	58750	2.5	146875	146875	
	A1-A2	317 to 308	1298	9	66	85668	2.5	214170	214170	
	A1-A2	308 to 299	1449	9	70	101430	2.5	253575	253575	
	A1-A2	299 to 290	1600	9	88	140800	5.5	352000	352000	
	A1-A2	290 to 281	1854	9	88	163152	2.5	407880	407880	
							Total	1374500		
	B1-B2	326 to 317	1512	9	100	151200	2.5	378000	378000	
	B1-B2	317 to 308	1744	9	100	174400	2.5	436000	436000	



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Kireet Acharya
Qualified Person

B1-B2	308 to 299	1821	9	100	182100	2.5	455250	455250	
B1-B2	299 to 290	2020	9	100	202000	2.5	505000	505000	
B1-B2	290 to 281	2087	9	20	41960	2.5	104900	104900	
						Total	1879150		
C1-C2	326 to 317	1686	9	97	163542	2.5	408855	408855	
C1-C2	317 to 308	1831	9	100	183100	2.5	457750	457750	
C1-C2	308 to 299	2001	9	100	200100	2.5	500250	500250	
C1-C2	299 to 290	2196	9	100	219600	2.5	549000	549000	
						Total	1915855		
D1-D2	326 to 317	1684	9	55	92620	2.5	231550	231550	
D1-D2	317 to 308	1892	9	70	132440	2.5	331100	331100	
D1-D2	308 to 299	1977	9	60	118620	2.5	296550	296550	
D1-D2	299 to 290	2148	9	100	214800	2.5	537000	537000	
						Total	1396200		
E1-E2	335 to 326	959	9	100	95900	2.5	239750	239750	
E1-E2	326 to 317	1250	9	110	137500	2.5	343750	343750	
E1-E2	317 to 308	1628	9	110	179080	2.5	447700	447700	
E1-E2	308 to 299	1766	9	93	164238	2.5	410595	410595	
E1-E2	299 to 290	1970	9	100	197000	2.5	492500	492500	
						Total	1934295		
						Grand Total	8500000		

Insitu excavation of year 2022-2023:-

Year	Section Line	Bench RL	Sectional Area	Average Height in m	Influence	Total Excavation in CUM	BD-2.5	ROM in T	Mineral in T	Top soil M ³
2022-	A1-A2	281 to 272	1979	9	70	138530	2.5	346325	346325	



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ATELA KALAN STONE MINE
M.L.Area-54.00 Hect.,
Modified Mining scheme period 2020-2025

23	A1-A2	272 to 263	2566	9	70	179620	2.5	449050	449050	
	A1-A2	263 to 254	2585	9	17	43230	2.5	108075	108075	
							Total	903450		
	B1-B2	290 to 281	2087	9	80	166960	2.5	417400	417400	
	B1-B2	281 to 272	2285	9	100	228500	2.5	571250	571250	
	B1-B2	272 to 263	2512	9	100	251200	2.5	628000	628000	
							Total	1616650		
	C1-C2	290 to 281	2201	9	100	220100	2.5	550250	550250	
	C1-C2	281 to 272	2751	9	100	275100	2.5	687750	687750	
	C1-C2	272 to 263	3040	9	100	304000	2.5	760000	760000	
							Total	1998000		
	D1-D2	290 to 281	2275	9	100	227500	2.5	568750	568750	
	D1-D2	281 to 272	2667	9	100	266700	2.5	666750	666750	
	D1-D2	272 to 263	2711	9	100	271100	2.5	677750	677750	
							Total	1913250		
	E1-E2	290 to 281	2305	9	100	230500	2.5	576250	576250	
		281 to 272	2444	9	100	244400	2.5	611000	611000	
		272 to 263	2389	9	100	128400	2.5	321000	321000	
							Total	1508250		
	F1-F2	290 to 281	1328	9	70	92960	2.5	232400	232400	
	F1-F2	281 to 272	1340	9	50	67000	2.5	167500	167500	
	F1-F2	272 to 263	1284	9	50	64200	2.5	160500	160500	
							Total	560400		
							Grand Total	8500000		



Insitu excavation of year 2023-2024:-

Year	Section Line	Bench RL	Sectional Area	Average Height in m	Influence	Total Excavation M ³	BD-2.5	ROM in T	Mineral in T	Top soil M ³
2023-2024	A1-A2	263 to 254	2566	9	33	84678	2.5	211695	211695	
	A1-A2	254 to 245	2585	9	60	155100	2.5	387750	387750	
	A1-A2	245 to 236	2528	9	50	139040	2.5	347600	347600	
							Total	947045		
	B1-B2	263 to 254	2454	9	100	245400	2.5	613500	613500	
	B1-B2	254 to 245	2396	9	100	239600	2.5	599000	599000	
	B1-B2	245 to 236	3213	9	100	321300	2.5	803250	803250	
							Total	16415750		
	C1-C2	263 to 254	3031	9	100	303100	2.5	757750	757750	
	C1-C2	254 to 245	2972	9	100	297200	2.5	743000	743000	
	C1-C2	245 to 236	2914	9	100	291400	2.5	728500	728500	
							Total	2229250		
	D1-D2	263 to 254	2711	9	100	271100	2.5	677750	677750	
	D1-D2	254 to 245	2600	9	100	260000	2.5	650000	650000	
	D1-D2	245 to 236	2989	9	80	240709	2.5	601772.5	601772.5	
							Total	1929523		
	E1-E2	263 to 254	2334	9	77	179718	2.5	449295	449295	
	F1-F2	254 to 245	2278	9	100	227800	2.5	569500	569500	
							Total	1018795		
	F1-F2	263 to 254	1224	9	65	79560	2.5	198900	198900	
		254 to 245	1169	9	55	64295	2.5	160737.5	160737.5	
							Total	359638		
							Grand Total	8500000		



Insitu excavation of year 2024-2025:-

Year	Section Line	Bench RL	Sectional Area	Average Height In m	Influence	Total Excavation In CUM	BD-2.5	ROM in T	Mineral in T	Top soil M ³
2024-2025	A1-A2	236 to 227	2449	9	55	134695	2.5	336738	336738	
	A1-A2	227 to 218	2368	9	50	18400	2.5	296000	296000	
							Total	632738		
	B1-B2	236 to 227	3271	9	100	327100	2.5	817750	817750	
	B1-B2	227 to 218	3190	9	100	319000	2.5	797500	797500	
							Total	1615250		
	C1-C2	236 to 227	3843	9	100	384300	2.5	960750	960750	
	C1-C2	227 to 218	4024	9	49	196650	2.5	491625	491625	
							Total	1452375		
	D1-D2	245 to 236	2545	9	19	48355	2.5	120888	120888	
	D1-D2	236 to 227	4551	9	100	455100	2.5	1137750	1137750	
							Total	1258638		
	E1-E2	245 to 236	4609	9	100	460900	2.5	1152250	1152250	
	E1-E2	236 to 227	5051	9	100	505100	2.5	1262750	1262750	
							Total	2415000		
	F1-F2	245 to 236	2403	9	100	240300	2.5	600750	600750	
	F1-F2	236 to 227	2101	9	100	210100	2.5	525250	525250	
	TOTAL						Total	1126000		
							Grand total	8500000		

Summary of year wise development

Year	ROM in MTPA	Stone Recovery in MTPA	Associated mineral Recovery in MTPA	Topsoil in Cum
2020-21	6.00	5.88	0.12	2775
2021-22	8.50	8.33	0.17	



2022-23	8.50	8.33	0.17	-
2023-24	8.50	8.33	0.17	-
2024-25	8.50	8.33	0.17	-
Total	40.0	39.20	0.80	2775

*Bulk Density of mineral is assumed to be = 2.5 T/m³.

II) Dump rehandling (for the purpose of recovery of mineral:

No permanent dump will be rehandled. Temporary dumps of associated mineral shall be sold to consumers

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 mine .Composite development plan showing pit layout ,dumps stacks , mineral rejects if any and year wise sections in case of B category.

Year wise development plan and section have been prepared as 5A. to 5E and sections are also drawn showing all layout, slope, gradient, benches and proposed plan

d. Describe briefly the layout of mine workings, pit road layout, the layout of faces and sites for disposal of overburden/waste along with ground preparation prior to disposal of waste, reject etc.

Lay out of mine working is given in year wise development plan and sections, (Plate 5A, 5B, 5C, 5D & 5E).

Ore to overburden ratio -Details of year wise Ore to OB ratio and overall ratio at the end of fifth year are as under -



Year	Total ROM in million T. Stone	Total recoverable stone (MTPA)	Associate d Mineral (MTPA) (A)	Over burden to be handle (in T) (B)	Total waste in T	OB to Ore ratio	Top Soil (M ³)
2020-21	6.00	5.88	0.12	0	0	1:0.00	2775
2021-22	8.50	8.33	0.17	0	0	1:0.00	-
2022-23	8.50	8.33	0.17	0	0	1:0.00	-
2023-24	8.50	8.33	0.17	0	0	1:0.00	-
2024-25	8.50	8.33	0.17	0	0	1:0.00	-
Total	40.0	39.20	0.80	0	0	1:0.00	2775

*Waste generated in scheme period will be used as ordinary earth

Details of year wise progression of quarry, RL, Ore to OB ratio and overall ratio from 2020-21 to 2024-25 at the end of each year are as under

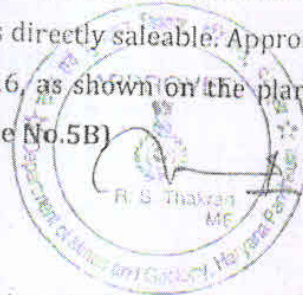
YEAR - 2021-21

During this year, the mining is proposed from the top most level at 393 mRL, the working in this year is proposed in on section lines A1-A2 to E1-E2 on northern most benches from mRL 393 to 326 mRL, all benches will be of nine meters slice non-working benches height will be at the height of 9 meter and width will be more than 9 meters. Total 6000000 T ROM will be produced including of associated mineral which will be of saleable nature on account of massive deposit. Proposed working will be advanced from North to south side. During the year 9081 sq. meter area will be freshly broken, rest working will be carried in already developed pit area. During the period 0.30 cm thickness of top soil is assumed thus 2724 M³ top soil will be generated which will be used for plantation purpose simultaneously, hence no stock of top soil will be maintained. Similarly no mineral stock will be maintained as all mineral is directly saleable. Approach roads will be extended up to face with proper gradient of 1:16, as shown on the plans. The details of mine layout for the year has been shown on plate no. 5A



YEAR - 2021-22

During this year, the mining is proposed from the top most level at 335 mRL, the working in this year is proposed in on section lines A1-A2 to E1-E2 on middle benches from MRL 335-281 mRL, all benches will be of nine meters slice. Non-working benches height will be at the height of 9 meter and width will be more than 9 meters. Total 8500000 T ROM will be produced which will be of saleable nature on account of massive deposit. Proposed working will be advanced from North to south side. During the year 29546 sq. meters area will be freshly broken area, rest working will be carried in already developed pit area. During the period no top soil will be generated no stock will be maintained. Similarly no mineral stock will be maintained as all mineral is directly saleable. Approach roads will be extended up to face with proper gradient of 1:16, as shown on the plans. The details of mine layout for the year has been shown on (Plate No.5B)



YEAR - 2022-23

During this year, the mining is proposed within the existing benches, the working in this year will be confined between 290 mRL at top to 254 mRL. Total 8500000 T ROM will be produced which will be of saleable nature on account of massive deposit. Proposed working will be advanced from North to south side. During the year no fresh area will be broken, all working will be carried in already developed pit area, as no top soil is likely to be generated no stock will be maintained. There will not be mineral stock maintained as all mineral is directly saleable. Approach roads will be extended up to face with proper gradient of 1:16, as shown on the plans. The details of mine layout for the year has been shown on (Plate No. 5C)

YEAR - 2023-24

During this year, the mining is proposed within the existing benches, the working in this year will be confined between 263 mRL at top to 236 mRL. Total 8500000 T ROM will be produced which will be of saleable nature on account of massive deposit. Proposed working will be advanced from North to south side. During the year no fresh area will be broken, all working will be carried in already developed pit area, as no top soil is likely to



be generated no stock will be maintained . There will not be mineral stock maintained as all mineral is directly saleable. Approach roads will be extended up to face with proper gradient of 1:16, as shown on the plans. The details of mine layout for the year has been shown on (Plate No.5D)

YEAR - 2024-25

During this year, the mining is proposed within the existing benches, the working in this year will be confined between 253 mRL at top to 218mRL. . Total 8500000 T ROM will be produced which will be of saleable nature on account of massive deposit. Proposed working will be advanced from North to south side. During the year no fresh area will be broken , all working will be carried in already developed pit area , as no top soil is likely to be generated no stacking of top soil is proposed . There will not be mineral stock maintained, as all mineral is directly saleable. Approach roads will be extended up to face with proper gradient of 1:16, as shown on the plans. The details of mine layout for the year has been shown on (Plate No.5E)

Year wise Development & Production plan are given in plates 5A-5E, however it is proposed that additional temporary ramps at some places may be created for safe and easy transport of mineral/waste.

Year wise development plan & sections are enclosed as Plate- 5A to 5E.

Sr.no.	Items	Details
i)	Method of mining With bench parameters	It is "A" category open cast fully Mechanized mine working with deep hole drilling and blasting. Mining from top to bottom is proposed in this plan; proposed bench height will be 9m in mineral and non working bench width is to be kept more than 9 Top level slices of 5.0 meter will be taken in view safe practices .Ultimate bench height will be 9 meters and width will be >9 meters



ii)	Drilling	Drilling will be done by 100 mm dia. wagon drills 10 meter including 10% sub grad drilling
iii)	Blasting	Blast hole drilling will be done by 100-115 mm diameter wagon-drills. For 9 meters high benches, hole depth will be kept 10 meters in view of subgrade drilling. The burden will be 4.0 and spacing 3.0 meters. The holes will be drilled in 2-3 rows. Powder factor is kept at 8.0. Each 10 meter hole will be charged with 45 kg. of explosives which will comprise of Class II explosive Non electric ignition delay system (NONEL) will be used for delayed detonation which will give powder factor of 8 tonnes per Kg. of explosive.
iv)	Excavation	The mining excavation is being done with the help of heavy mechanized mining method forming 9 m high and >11 m or more wide benches. The high walls will be kept at 85° inclinations. face will advance in North to south direction with the help of shovel, dumper/tippers, wagon drills, dozer, hydraulic rock breaker, water sprinkler etc.
v)	Loading	Three shift loading will be done by deploying heavy earth moving machinery shovel, dumpers /tippers etc.
vi)	Transportation	The mineral and waste is being be transported by dumpers/tippers loaded by excavators/ loaders.
vii)	Crushing/screening	The mineral stone will be directly dispatched to consumer or to crushing plant situated around the lease area
viii)	Mineable reserves and anticipated life of the Mine:	The existing mineable reserve is 55284373 Tons & the proposed production of the mine will be about 60,000,00 T per annum thus the reserves are sufficient for 7.15 years say 8 years approx.
ix)	Ultimate pit limit	UPL will be at 200 mRL



1) CONCEPTUAL MINE PLANNING

Exploration proposed.

Mineral is fully exposed so exploration is not required looking to minor mineral and low cost mineral. Exploration will not be required up to the conceptual period

Ultimate Length, width & depth of the mineral deposit

As per geological details/information available at per present, the ultimate length, width & depth at the end of year & at the end of life of mine will be as below.

Period	Total excavated area
Present land use	32.30 hect.
At the end of Plan period (2020-2025)	36.16 hect.
At the end of life of mine	54.00 hect.

Ultimate capacity of Dumps: -

The total associated mineral generation during this mining scheme period will be 0.80 MTPA with nil quantity of OB. The existing mineable reserve is 55284373 tones & the proposed total production of the mine will be about 40.0 Million Ton in five year. As the reserves computed are sufficient with targeted production of 8.50 Million T/year for next 7.15 years with Ore: OB ratio of 1:0.000. Associated mineral thus generated will be used with specific permissions from the mines department.

As per the present geological parameters after complete exhaustion of mineral the top RL shall be at 393 mRL and at conceptual stage it will reach to 218 mRL very limited part of pit can be back filled and remaining part will be converted in to a water-reservoir having size 20.73 ha for water storage and will be utilized for plantation & irrigation of the adjacent agricultural land of villagers. On demand from villager, company may supply



Signature

Kireet Acharya
Qualified Person

water for their irrigation & replenish the adjacent water tank.

Generation of Top soil & its preservation

Top Soil will be scrapped during the year, if available and will be stacked on the top soil dump and as and when required will be spreaded on back filled area for plantation. Total about 11639 M³ OB shall be generated which will be used for plantation purpose.

Post mining land use & reclamation:-

The reject and waste (OB) generation from year 2020-25 will be negligible thus back filling will not be possible. However the water body and plantation at green belt and will be carried out sold as associated mineral to consumer's under specific permission from the Department. About 2.37 hect area will be covered under green belt plantation by local species.

Year wise plantation proposals for next five years

Plantation will be carried out in three rows , each plant shall be spaced at meter distance as per EIA guide lines . In all up to the end of mine 33% area of the lease shall be covered with thick belt of plantation along green belt, afforestation in other areas and bench plantation .Post plantation will be taken care till the plants are stabilized fully. Proper manure and fencing shall be provided

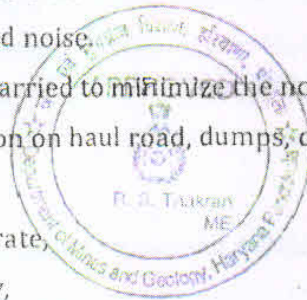
Year	No of plants	Area	Survival rate	Species of plants
2020-21	1250	0.474	About 95%	Arjun,Karanj,Mango Jamun,Imli, Peltafar, Acacia ,Kathal, Cenmia, Neem, Gulmohar, and other local species
2021-22	1250	0.474	About 95%	--Do--
2022-23	1250	0.474	About 95%	--Do--



2023-24	1250	0.474	About 95%	--Do--
2024-25	1250	0.474	About 95%	--Do--
Total	6250	2.370		

Protective work for Environment:-

1. Water will be sprayed on haul road to arrest the dust particals.
2. Regular Air, water and noise monitoring will be done.
3. Plantation will be done to dampen the dust and noise.
4. Proper maintenance of all machinery will be carried to minimize the noise levels.
5. Antismog gun will be used for dust suppression on haul road, dumps, during loading operations
6. Only trained operators will be allowed to operate.
7. All machines will be used at optimum capacity,
8. Blasting will be under the strict supervision of certified personals
9. Workers and operators working near machine sites will be provided with PPE's.
10. Sump will be created in the bottom part of pit to collect the rain water
11. Garland drain around the pit and waste dump will be made and fencing will be carried out to prevent ingress of any unauthorized person etc.
12. Rubble stone wall will be made around OE /waste dump and soil stack.
13. Ear muff fitted Helmets & safety shoes will be provided to workers.
14. One piezometer will be installed for periodical monitoring of water level and a water harvesting structure will be made to augment the water level of the area.
15. Solid waste and bio-degradable waste will be segregated, if any



Final Slope Angle to be adopted:

The final slope angle of the benches at conceptual stage will be 45° and haul road gradient will be maintained to 1:16 to 1:18. At plan and section at 230mRL is shown on the plan Plate no. 6.

iii.) EXTENT OF MECHANIZATION

In view to produce 8.50 million ton from the mining area the project proponent has already obtained the permission from DGMS vide letter no.S29024/GR/HAR/Bhiwani /153/per/1712 dated 15.07.2015 (**Annexure-7**) to use heavy machineries and deep hole drilling and blasting. Following assumptions are considered for computation of mechanization:

S.no.	Assumptions	Unit
1	No. of shift per day	3
2	No. of working day	300
3	Specific gravity of quartzite	2.5
4	Availability of equipments	75%
5	Fill factor of excavator bucket	0.80
6	Hours of working per shift	6.00
7	Average haul distance	08Kms
8	Speed of dumpers	30km/hr
9	Drill penetration rate	15-30mtrs/hour
10	Excavator capacity chosen	3.1-3.9cum
11	Dumper Capacity	30-50 T
12	Drill diameter	100-115
13	Powder factor	8 T per kg

Loading /excavating equipments

The number of loading/excavating equipment as envisaged to ne provided is given below in view of enhanced rock volume , the calculation in terms of adequacy of equipments are given below-

Requirement of Excavators:	
Annual Stone proposed in tonnes.	8500000



Total no of working days= 300 days	300
Loading per day	28333
Loading per shift	9444 Tons
Hydraulic excavator capacity	3.8 m ³
Fill factor	0.8
Swell factor	1.5
Loading cycle	48 sec.
Average Cycle time @90% efficiency	54 sec.
Dumper Capacity 22.5 cum	22.5cum
Shovel Tipper Capacity	22.5x0.8x=18cum
Dumper Capacity (18Cumx0.8x0.85)x2.5	30.6Tons
Availability of Excavator 80%	80%
Utilisation of Excavator	85%
Possible working hour per shift	6.00
Effective dumper capacity in (18cumx0.8x0.85x2.5)	30.6

Shovel Productivity in Tons per hour are determined by tipper size ,swing time ,
Dipper capacity and dumper spotting conditions and is calculated as under-

Tones per hour = $\frac{60 \text{ min}}{((\text{Dumper size m}^3/\text{dipper size m}^3 \times \text{swing time}) + \text{Dumper spotting time})} \times \text{Dumper size (t)}$

$$3600 \times 30.06 = 268.89$$

Tonnes per Hr.= $\frac{3600}{(18/30.4 \times 54 \text{ sec.}) + 90}$

$$(18/30.4 \times 54 \text{ sec.}) + 90$$

Hence Shovel productivity in Ton per hour comes out to be 270TPH

Annual Operating Hours

No.of days x No. of shifts x % availability x 5 Utilization x Hr.per shift =operating hours

$$\text{Annual operating hours} = 300 \times 2 \times 0.80 \times 0.85 \times 6.0 = 2448 \text{ Hrs}$$

Annual Production

Shovel Fleet Requirement = $\frac{\text{Annual Production}}{\text{Shovel Productivity}}$



$$\text{Shovel fleet requirement} = \frac{\text{Annual Operating hours} \times \text{Tonnes per hour}}{2448 \times 270} = \frac{8500000}{2448 \times 270} = 12.86 \text{ Say } 13.0 \text{ Nos.}$$

Thus 13 shovels +2 standby will be required for the current production

Requirement of drilling machines

Considering Per 28333 Tons rock to be broken per day with spacing and burden 4x3 with 10 meter depth of drill hole total rock 120 Cum rock (300Ton) will be covered for blasting from single hole .To produce 28333 Ton per day approx. 94 holes (10x94=940 meters) will be required . One machine having capacity to drill 27 meters approx. (@90% availability & performance) in one shift and three shift working will lead 81 meter by one machine.

Thus to achieve 940 meter per day drilling 11.60 (Say 12) machine will be required to drill desired length . However one drilling machine will be in standby to avoid any work hampering on account of break down if any. Total 14 drilling machines will be required for drilling operations including 2 standby machines.

Requirement of Dumpers

The produced ROM shall be sold from the ex pit by consumer trucks; however the no. of trucks will be assessed as per the demand. The produced ROM shall be sold from the ex pit by consumer trucks; however the no. of trucks will be deployed as per the demand. The following tippers shall be required if project proponent intend to handle ROM by its own arrangement.

B	Requirement of Dumpers:	
1	Annual Stone proposed in Tones.	8500000 Tons
2	Per day generation of ROM	28333 Tons
3	Dumper capacity	39.6 cum



4	Speed of loaded dumper	30Kmph
5	Load per pass of loading equipment for blasted mineral	3.9cumx0.8 =3.12x2.5=7.8 Tons
6	Average time cycle of of excavator	48 sec
7	No. of passes required to load a dumper	59.16x7.8=7.5 say 8
8	Time for loading a dumper	54x8=432sec.(7.2 minutes)
9	Lead from face to crusher	05 kms
10	Waiting and spotting time at face	2
11	Waiting and spotting time at crusher	2
12	Time taken for loaded trip in minutes	12
13	Time taken for empty trip in minutes	10
14	Total time taken per round of trip	26
15	Load that can be transported per hour (2trips)x59.13T	118.32 say 119
16	Load to be transported per hour	1571
17	Dumpers required	1571/119= 13.20
18	20% allowance for maintenance /repair /breakdown	2.64
19	No. of Trips required per day @45 Ton capacity for loading 28333 Tons	629

Project Proponent has proposed to transport the stone from pit head to crushing or directly to consumer by hired dumpers. The own dumpers will be used for handling of fines and mineral reject if any.

C. List of Machineries in use

The MSK JV Company has deployed a large fleet of heavy machineries; its capacity, make and no. are tabulated as under:



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Kireet Acharya
Qualified Person

S. No.	Name of Machine	BHP/HP	Capacity	No.
1	Volvo-480	355	3.1	2
2	Volvo-380	288	1.8	1
3	Volvo-350	282	2.0	2
4	Volvo-380	280	1.4	1
5	KOBELCO-380	280	1.8	2
6	KOBELCO-220 Rock breaker	153	0.93	2
7	Drilling Machine Compressor)	170	-	3
8	Bulldozer	450	-	1
9	Loader (Grader)	165	-	1
10	Disel tank	110	12	1
11	Water tanker	110	20	2
12	Water tanker (service van)	110	APPROVED	1
13	Mobile maintenance van	110	R. S. Thakran M.E.	2
14	Bolero	50	-	2
15	Camper	50	-	2
16	Mobile lighting tower			5

D. BROAD BLASTING PARAMETERS

Project proponent has own arrangements of explosive storage at survey no. 15/15 Atela Naya, District Bhiwani Haryana own magazine having valid license no.E/NC/HN/22/165 (E97151) dated 14.3.2019 (Annexure-8) granted in Form LE-3 in the name of Mala kumar Engineers, and approved van bearing registration no HR849693 (Annexure-9) to carry explosive from magazine to mine with valid licenses. The explosive is used under the supervision of certified personals of mine.

There are few permanent structures with thin the lease area for which project proponent will obtain the rehabilitation right from the villagers and with specific DGMS permission for blasting nearby structures . PP has obtained permissions and will work as per regulations 106 (2)(b) of MMR 1961 for deep hole blasting



(controlled blasting within 300) . PP will strictly follow the conditions laid down in permission. Blasting will be done in day hours at schedule time of 1.00-2.00 Noon. Blast hole drilling will be done by 100-115 mm diameter wagon-drills. For 9 meters high benches, hole depth will be kept 10 meters including subgrade drilling. The spacing -Burden will be 3x4 meters respectively. The holes will be drilled in 2-3 rows in staggered pattern. Each 10 meter hole will be charged with 45 Kg. of class II and Non Electric delay detonators (NONEL) will be used for initiation of blast. Each hole will be provided with separate delay so that the ground vibration will be minimum. This sequencing will result in the better blasting efficiency and restricted / controlled throw.

QUANTITY OF EXPLOSIVE

It is proposed to produce 28333 Tons of ROM per day along with associated minerals. For the said purpose following assumptions are taken in to considerations.

- Production target per day =28333Tones
- Considering 300 working days in year
- Bulk density =2.5 Ton per cubic meter
- Bench height =9.0 meter
- Volume to be broken per hole = 4.0x3.0x10.0 meter depth x 2.5(BD) =300 Tons approx.
- No. of hole required for blasting =28333/300 = holes say 94
- Adopted Charge per hole being used =6.0 kg
- 94 hole x 45 kg per hole =4230 Kg Per day

Year	Total ROM (in Tonnes)	Per day requirement in Kg	Total Ton/annum
2020-21	6000000	3015	904500



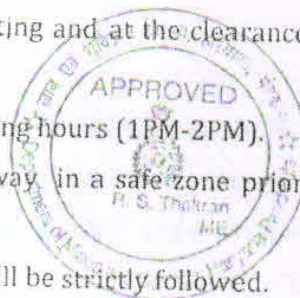
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2021-22	8500000	4230	1269
2022-23	8500000	4230	1269
2023-24	8500000	4230	1269
2024-25	8500000	4230	1269
TOTAL	40000000		5980

Safety measures which will be adopted during the blasting

- ❖ Project proponent will strictly follow the conditions laid down in permission from DGMS under Regulation 106 of MMR 1961 for controlled blasting within 300 m radius of any of permanent structures.
- ❖ Efficient siren will be blown prior to the blasting and at the clearance of the blasting.
- ❖ Blasting will be done in day hours during blasting hours (1PM-2PM).
- ❖ All workers and other persons will be sent away in a safe zone prior to the blasting.
- ❖ All Precautions mentioned in the MMR-1961 will be strictly followed.



A. UNDER GROUND MINING

Not applicable, it is an open cast mine



3.0 MINE DRAINAGE

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

The lease area consisting of a hill area and mining is carried out from top to bottom side from mRL is 401 and lowest bottom mRL is 239 near BP-3,4 boundary pillars .There is a difference of 162 meters .The water table is observed 50 meters below the general ground level . In this situation water table will not be encountered in the area . However there are chances of collecting rain water in the depression near MSK office The ground water level will encounter at a depth of 189 mRL .During the scheme period working will be confined to hill and general ground levels part i.e. Above 200 mRL , so water level will not be intersected

b) Indicate maximum and minimum depth of Workings.

During the plan period the depth of mining at the end of year 2025-26 will be up to 200 mRL, i.e 11 mtr from ground level so water level will not be intersected

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

No ground water is anticipated as water table will not intersect. However rain water management will be required.

The water table in the lease area is at 189 mRL and the maximum working depth of mine will be up to 200 mRL, as there will be no influx of toxic liquids/waters .Only rain water is going to be collected in the sumps, which will be pumped out and shall be used for plantation purpose .Total 40 KL water requirement will be sourced the nearby well by paying suitable cost .Water will be used for drinking and domestic use. Dust suppression and plantation water will be sourced from the mine sump.



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The water quality of mine water is continuously monitored on quarterly basis. The water quality is analyzed by seven radicals by the third party laboratory & also the water quality analysed once in a year. The quality of water analyzed is observed within permissible limit. No toxic elements have been observed in the water. The water is drinkable and potable. Water quality report is enclosed herewith as **Annexure-10**.

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

The area does not have perennial source of water either natural (river, pond, nalahs) or manmade (Public water supply system), so the Rain water is the only source of water to meet the domestic and industrial need of MSK JV establishments.

The average rain fall of the area is 420 m.m. highest flood level is 277 mRL at railway line. There is one small seasonal nallah passes in the lease area, water flow in it during rainy season only, other time it remains dry.

The surplus water is used for irrigation of forestation and plantation. Water is also used for water sprinkling and miscellaneous use.



4.0 STACKING OF MINERAL REJECT /SUB GRADE MATERIAL AND DISPOSAL OF WASTE

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

Type of waste generated during the year.

1. Top Soil consists of 0.20 to 0.50 meters (0.30 Average) on account of hilly area.
2. Associated mineral consisting of fine fragments of rock and sub soil found within the crevices and joints of rocks is considered @ 2.0 %

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.

No external dump is proposed. All the waste & OB will be dumped at periphery for temporary period in the lease area. After complete exhaust of mineral in the area backfilling will be done with the available waste and plantation will done by spreading top soil over it.

Maximum Height & Spread of the Dump :

During plan period no waste dump shall be made, the waste generated during period of mining scheme period shall be used in selling as associated mineral as per permission granted by Mines department .

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

Protective measures

It will not be required as negligible OB /waste will be generated. It will be sold as associated mineral under permission from the department.



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5.0 USE OF MINERAL AND MINERAL REJECT

a) Describe briefly the requirement of Mineral :

The main mineral is quartzite hence the entire stone of this mine is used for masonry construction only and source material for production of stone aggregates of different sizes. Fine ordinary will also be used as a material for masonry purpose.

b) Give brief requirement of intermediate industries involved in upgradation of mineral before its end-use.

Not applicable

c) Give detail requirements for other industries, captive consumption, export, associated industrial use etc.

The stone produced from the mine is being used in the manufacturing of aggregates by crushers, which are located near by the lease area.

e) Give details of processes adopted to upgrade the ROM to suit the user requirements.

Not applicable



6.0 PROCESSING OF ROM AND MINERAL REJECT

a) If processing / beneficiation of the ROM or Mineral Reject is planned to be conducted, briefly describe nature of processing / beneficiation. This may indicate size and grade of feed material and concentrate (finished marketable product), recovery etc.

The overall quality of ROM stone is suitable for manufacturing of stone aggregate purpose and OE purpose. No stone will be sub grade, the stone will be crushed to supply for a specific size to the customers, hence beneficiation / processing will be required. As masonry stone is low cost mineral Thus no beneficiation investigation has been proposed.

EXISTING METHOD OF BENEFICIATION:

Crushing: There is a proposal to set up own crushing plant in the lease hold area .In view of availability of mineral in plenty and finding direct market for aggregates the MSK JV has planned to set up own Crushing plant and using part of own ROM for the said purpose. Remaining quantity for selling to nearby crushers.

Hopper	Steel Hopper with RCC support of 50M ³ Live capacity
Feeder	Vibrating Grizzly Feeder with 40KW motor
Primary Crusher	Jaw Crushers with 110KW motor
Secondary Crusher	Impact Crusher with 200KW Motor
Screens	Vibrating 3 deck Screens (Three Nos. With 40KW motor each)
Conveyors	800mm and 100 mm conveyor belts

Primary and secondary crushers are set with full covered shades, all screens and conveyors are also covered by metallic to avoid air born particals. Discharge chutes are covered with rubber curtain for controlled discharge. Use of high pressure water jets is



will be adopted at hopper, discharge points, conveyors, and loading points to control air pollution. All workmen's are also provided with Protective wear for nose, eye and helmets and shoes. First Aid facilities are also provided

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.

All sizes of crushing will be saleable including fine dust .thus 100 % ROM and processed material will be balanced, no loss is anticipated .

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

Not anticipated tailing or rejects

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 applicable

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

Not applicable

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

Not applicable

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.

Total water requirement for the proposed crushers will be 10000 (10KL) per day for dust suppression, as such there is no tailing /waste water discharge. Water balance chart is attached as **Annexure-11**. The Permission Consent to establish and consent to operate has been obtained from HSPCB , Govt. of Haryana.



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7.0 SITE SERVICES

a) Site Services

(A) A well constructed mine office, VT center, stores, First aid center, rest shelters, toilets, drinkable water facilities, canteen facilities and workshop have already been provided for this lease area and within the adjoining lease area of 300 meters. Proper space is available to keep the registers and records during working hours.

(B) visiting doctor facility is provide located in the mine area, so only first aid kits & first aid box are proposed at mine site for giving first aid to the injured persons if, any. Record of pre and during working medical examination is kept mandatory thus no health hazard is found during the mining working

(C) A well equipped workshop and repair facilities are available for carrying out preventive maintenance, minor and major repairs, rebuilding and complete overhauling of mining equipment.

(D) Permanent facility for workmen's, guest houses is within 5 km from Atela mine site. Further additional all facilities, Gramin bank, post office, hospitals etc are available at Atela Naya.

(E) No women workmen are deployed in the mine so no crèche and facilities are provided

b) EMPLOYMENT POTENTIAL

(a) STATUTORY PERSONNEL- three shift

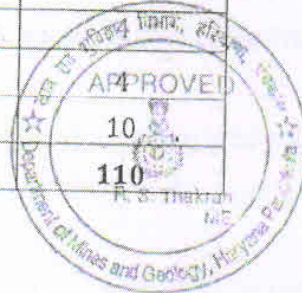
Following statutory and workmen employed are employed at the mine site, the existing man power will remain continue. The following man power will be required including expansion

Sl No	Designation	No.
	Office Staff	
1	Mines Manager Ist Class (R)	1
2	Asstt. Mines Manager IInd Class	1
3	Mines Foreman	4



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4	Mining Mate	6
5	Blaster	1
6	Mines Surveyor	0
7	Mechanical Engineer	1
8	Geologist	0
9	Mechanical engineer	1
	Clerk	5
	Total	16
	Workmen	
10	Operators	52
11	Blasting crew	10
12	Drill crew	16
13	Water tanker driver	
14	Green Belt and Horticulture	
15	Skilled worker	10
	Total	110



8.0 PROGRESSIVE MINE CLOSURE PLAN UNDER RULE 27 OF MCDR' 2017

This is an existing area being worked by mechanized way, in lease area of 54.00. A key plan of lease area and surrounding area with in 5.0 kms radius is marked . As per revenue record of the mine the total lease area is a barren land. There is no protected forest, reserve forest and archeological monument in the granted area. The quartzite stone is only mineral found in the area and associated mineral is recorded is estimated @2% of ROM with the mining of Masonry stone .The same has been recovered and being used under due permission from the state govt.

REVIEW OF IMPLEMENTATION OF MINING PLAN INCLUDING FIVE YEAR PROGRESSIVE CLOSURE PLAN UP TO FINAL CLOSURE OF MINE

8.1 Reason of closure: It is a granted area and minerisation still exists in area so during modified mining scheme period closure action is not proposed.

8.1.1 Statuary obligation: The project proponent is working while taking all safety measures and compiling all statuary obligations of MMR 1961, MMDR ACT.1957, IE Act. 1884 and Air(prevention and control of pollution) Act.1981 and water (prevention and control of pollution) Act.1981 and Occupational health and Safety Code 2021 etc.

8.1.2 Environment Base line information: Details of status of baseline Information with regard to existing land use pattern indicating the area already degraded due to mining, roads, processing plant, workshop, township etc are shown in tabular form.

8.1.3 EXISTING LAND USE PATTERN

The lease area is falling in govt. land (54.00 hect.), others type of land is not found in the area. Total lease area the mineralized area and part of area is broken for mining purpose

The present land use pattern of the lease area is tabulated as follows: -



S no.	Particulars	Area put on use at start of mining plan
1	Area under mining	32.30
2	Storage for top soil	0.00
3	Waste dump site	0.00
4	Mineral storage	0.00
5	Infrastructure -workshop, Administrative, building etc.	0.18
6	Roads	0.00
7	Railways	0.00
8	Tailing pond	0.00
9	Effluent Treatment Plant	0.00
10	Mineral Separation Plant	0.00
11	Township area	0.00
12	Others (green belt plantation)	3.37
13	Undisturbed area	18.15
	Grand Total	54.00

8.1.4 Water regime

The water table in and around the lease area is at 189 mRL and the maximum working depth of mine will be up to 200 mRL, hence the mine working has not intersect the ground water table. As it water table will be much below the ultimate quarry depth.

Quality

There is no influx of hazardous substances or chemicals in the ground water, thus quality of water is not changed on account of mining. The water quality of mine water is continuously monitored by project proponent. The water quality is analyzed at NABL lab, a recent test report is placed potable (Annexure-10). The quality of water is potable, and good for agriculture



8.1.5 Quality of Air, Ambient Noise Level.

The air noise level is much below the permissible level. Quality of air, water & Noise is monitored regularly at defined stations. The results of the study show that the observed values of base line information are within limits with reference to standard parameters.

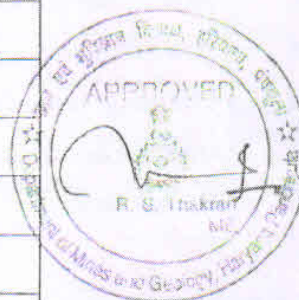
Air, Noise & water monitoring reports are enclosed as **Annexure-13, 14 & 15.**

8.1.6 Flora & Fauna

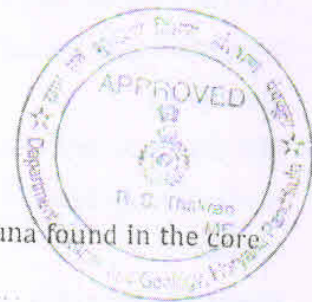
a) Flora - A list common flora found around mine site are given below (**Annexure-16**).

During the year 2015-2020 following local species were planted detail are as under -

Sno.	Name of species	No. of tree
1	Neem	82
2	Kikar	290
3	Kikar Kabli	14
4	Shishaam	46
5	Bakan	196
6	Alenthus	129
7	Siras	224
8	Papri	67
9	Banyan	3
10	Pipal	8
11	Gulmer	33
12	Ashok	11
13	Gava	2
14	Lemon	2
15	Astonion	4
16	Ficus	12



17	Sicus	2
18	Jamun	2
19	Shehtut	33
20	Hareda	54
21	Lehsua	16
22	Other varitieties	43
23	Badberi	90
	Total	1312



No schedule- I fauna was recorded in the lease area. Common fauna found in the core zone is as below.

Sr. no.	Name of Fauna
1.	Rabbit
2.	Owl
3.	Snake
4.	Duck
5.	Cat
6.	Crow
7.	Monkey
8.	Rat
9.	Goh
10.	Parrot
11.	Newla
12.	Pigeon
13.	Sparrow
14.	Chamelion
15.	Nevla
16.	



8.1.7 Climatic conditions

Temperature

The entire district falls in semi- arid zone having extreme hot climate. Which is mainly dry in hot summer and very cold in winter except during monsoon The winter season starts in November and extends till February. The weather is usually cold. During December – January the area experiences severe cold when minimum temperature goes down to 8-10°C. The summer season extends from the beginning of March to the end of June. Hot air waves are common during summer. The area experiences severe heat during May when the highest temperature is around 45°C.

Rainfall

The rainy season starts in early July and continues up to September and the annual rainfall is reported to be around 420 mm.

Cloudiness

The skies are moderate to heavily cloudy during monsoon seasons and some days in winter at other times, it is clear.

Winds

Winds are generally light to moderate with some strong thundering in summer and predominant wind direction is from SW to NE . General wind direction is north west to south east. The mean wind velocity of the area is 8.5 km/hr. Dust concentration in the normal air is negligible. Fine dust generated during drilling, blasting, loading and dumping will get air born.

8.1.8 HUMAN SETTLEMENTS

No human settlement located within the lease area. Human settlement located in the villages within 5km. Periphery is given in key-plan. The habitants belong to almost all casts. The main occupation of village habitants is agriculture and livestock.

8.1.7 PUBLIC BUILDINGS, ROAD, PLACE OF WORSHIP, MONUMENTS

No historical monument or building is present in the lease area. There is no national park, wildlife sanctuary, national monuments lies within 500m or 5km periphery of the lease area.



8.1.8 Indicate any sanctuary is located in the vicinity of leasehold

No sanctuary is located in the vicinity of leasehold.

8.2 IMPACT ASSESSMENT:

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

Due to mining activities, the present land use pattern will be definitely change, the land will be degraded as pit size will increased & waste removed during mining operation will be systematically backfilled with the balance waste .The disturbed area due to mining , transportation , and temporary infrastructure will be levelled and put use for regressing as per MoEFCC notification 2020

Land use pattern after end of the five year scheme period will be as follows.

S no.	Particulars	Area put on use at end of mining scheme period
1	Area under mining	36.16
2	Storage for top soil	0.00
3	Waste dump	0.00
4	Mineral storage	0.00
5	Infrastructure -workshop, Administrative, building etc.	0.18
6	Roads	1.68
7	Railways	0.0
8	Tailing pond	0.0
9	Mineral Separation Plant	0.0
10	Afforestation	2.50
11	Others (Green belt)	3.37
12	Undisturbed area	10.11
	Grand Total	54.00 hect.



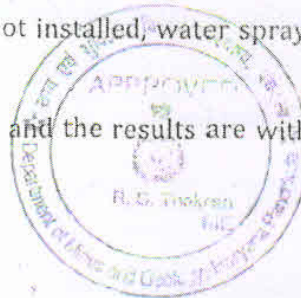
The likely depth of the pit at the end of mining scheme period will be up to 237 mRL.

8.2.2 Impact on Air Environment

The mining activity does have some impacts on air quality. The major contribution to the air pollution by open cast mining is the rise in Suspended Particulate Matter (SPM) due to generation of dust by drilling and blasting and by movement of fleet of dumpers, trucks, jeep etc. Blasting will also give rise to generation of NO_x and SO_2 . Heavy vehicles cause emission of NO_2 , SO_2 and CO .

To prevent the dust generation during drilling only wet drilling is done. At the time of loading water spraying over muck pile is done by rain gun. To prevent dust generation during transportation of mineral permanently installed water sprinklers along haul are used. Within mining pit area where water sprinklers are not installed, water spraying by water tankers are done to prevent dust generation.

Periodical Air sampling and analysis is done by NABL labs and the results are within the range. (Annexure-13)



8.2.3 Impact on Water Environment

The mining operations will not interfere with natural drainage pattern. The water will pass only in rainy season through broken land, waste dumps, and its quality is not likely to be deteriorated. In absence of any toxic minerals, element the quality of water will not get any adverse impact.

In order to avoid soil erosion & carry-over of the material with rain water, retaining wall & garland drain along the pit periphery with a settling tank is made. Rain water accumulated in pit sumps shall be pumped out to water reservoir through the open aqua duct. After natural oxidation, it is supplied to the water filtration plant and subsequently is being used for industrial and domestic purpose. Periodical water sampling and analysis is done by NABL labs and the results are within the range (Annexure-15).



8.2.4 Impact on Noise levels

In Mine area noise will be is increased by drilling, blasting, movement of dumpers, truck, loading of muck by shovels, crushers etc. The noise level in the working environment are compared with the standards prescribed by Occupational Safety and Health Administration (OSHA-USA) which has been adopted and enforced by the Govt. of India through model rules framed under Factories Act. These standards have been established with emphasis on reducing the hearing loss and consequential effects. The summary of the permissible exposures in cases of continuous noise as per above rules is give below:-

Noise at lower levels (sound pressure) is quite acceptable and does not have any bad effect on human being but when it is abnormally high, it incurs some maleficent effects on human beings. Sufficiently loud noise may cause the following adverse effects:-

- (i) Damage hearing and health,
- (ii) Interfere with work task,
- (iii) Interfere with speech communication,
- (iv) Cause irritation,
- (v) Affect inter-room privacy,
- (vi) Interfere with sleep,
- (vii) Cause annoyance,



Noise survey is done regularly. Report of Noise survey is attached. All the HEMMs operators have been provided with ear muff mounted Helmet, also they have been trained & motivate to use them. Periodical Noise monitoring is being done by NABL labs and the results are within the range (Annexure-14).

8.2.5 Vibration levels (due to blasting)

Heavy mechanization and deep hole blasting will cause vibration, the effect of vibration will be less by using sequential blasting with bottom hole initiation by None Electric Detonators (NONEL). Using NONEL shock tubes vibration due to blasting is reduced. Project proponent is having facilities for periodical monitoring of ground vibrations, the results indicates that the blast induced ground vibrations are well within the limit. In house Ground vibration study report for the period of May to July



2019 is attached as **Annexure-17**. The results indicate that the findings are within the permissible range.

8.2.6 Impact on Acid mine drainage

No acid mine drainage is expected.

8.2.7 Impact on Surface subsidence

The ground is very compact thus no surface subsidence is expected.

8.2.8 Impact on Socio-economics

The mining and nearby crushing industries are established by other entities has provided directly or indirectly employed about 500 peoples. It has not only helped in improving and developing the infrastructure of the area but also changed the economic pattern of the area. MSK JV has made the residential houses for workers and each house is equipped with all basic amenities. Plantations, light and drinking water and coolers are provided under CSR activities. Schools, post office, bank, hospitals, shopping center, facilities are available at Narnaul village at 5 kms.

Due to mining activities no evacuation of human settlement is involved. The mining operations are not causing any adverse impact on socio economic environment of the area. The Social & Demographic Profile of the area improves by having an economic activity near the villages by direct and in direct jobs.

8.2.9 Historical monuments etc

There is no historical monument, place of worship falls in the buffer and core zone.

8.2.10 Environment Management

Air, water and noise pollution

The present area is a running mine and protection measures in respect of Air, water and Noise are already taken. But as a part of mandatory measures management will



remain committed to adopt measures for environment and health hazards thus the following practices will remain continue and up graded time to time

1. The drilling will be carried out with wet drilling arrangement to suppress air born particles.
2. Water sprinkler, Anti Smog guns will be regularly practices at haul roads, blasted material and transportation roads up to tar road 2 kms south.
3. PPE will be provided and will be ensured a regular use.
4. Proper maintenance of mining machineries and use of sharp bits will be ensured.
5. Regular sampling and monitoring will be done as conditions stipulated in environment clearance.
6. Silencer will be fitted to all vehicles to minimize noise pollutions
7. Control blasting will be undertaken and secondary blasting will be avoided
8. Use of breaker will be preferred at sensitive places.
9. Blast hole geometry will be optimized and will be periodically monitored to archive better fragmentation.
10. All vehicles will get pollution certificate before entering in to mine.
11. Bio- degradable and solid waste will be separated and discarded as per CPCB guide lines
12. Oil and water separation tanks will be constructed.
13. Re-grassing will be done in the area
14. Extensive plantation in green belt and afforestation will be done to cover 33% of lease area.
15. Minimum use of water will be a regular practice along with recharge of area by a injection well and rain water harvesting pond.

8.3 PROGRESSIVE RECLAMATION PLAN:

As the mineral potential exists in the area and none of the part is exhausted, under the circumstances the back filling and progressive reclamation plan is not feasible. The back filling will be adopted as the area is exhausted with the available interberden, mean while it will be stacked with the lease hold area at a designated area.



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Kireet Acharya
Qualified Person

8.3.1. Mined-Out Land:

Backfilling in the exhausted area will not undertaken during the plan period because of persistence of mineral has been started, as the depth of mineralization is confirmed/proved in the area, the mineralised depth in the area is more than 200 mRL,

8.3.2 Topsoil Management:

There is negligible topsoil available in the area. Hence, small stock will be maintained. if soil observed in any part shall be scrapped and shall be collected and stacked separately to be used in plantation.

8.3.3 Tailings Dam Management:

Tailing dam is not required and not proposed in the mining plan hence this para does not apply.

8.3.4 Acid mine drainage, if any and its mitigative measures.

No acid mine drainage is expected, hence no management required.

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

Not Applicable

8.3.7 Information on protective measures for reclamation and Rehabilitations work

Items	Details	Existing	2020-21	2021-22	2022-23	2023-24	2024-25
Dump manage ment	Area afforested (ha)	2.5	0.5	0.5	0.5	0.5	0.5
	No of saplings grown	1312	1250	1250	1250	1250	1250
	Cumulative no of plants	1312	2562	3812	5062	6312	7562
	Cost including watch and care during the year	131200	100000	100000	100000	100000	100000
Manage	Area available for	nil	nil	nil	nil	nil	nil



ment of worked out benches	rehabilitation (ha)						
	Afforestation done(ha)	nil	nil	nil	nil	nil	nil
	No of saplings planted in the year	nil	-	-	-	-	-
	Cumulative no of plants	nil	-	-	-	-	-
	Any other method of rehabilitation (specify)	nil	-	-	-	-	-
	Cost including watch and care during the year	nil	-	-	-	-	-
Reclama tion and Rehabilit ation by backfilli ng	Void available for Backfilling (L x B x D) pit wise /slope wise	0 ha.	-	-	-	-	-
	Void filled by waste /tailings	0 ha	-	-	-	-	-
	Afforestation on the backfilled area	0	-	-	-	-	-
	Rehabilitation by making water reservoir	0	-	-	-	-	-
	Any other means (specify outside plantation)	0	-	-	-	-	-
Rehabilit ation of waste land within lease	Area available (ha)	0.00 ha	-	-	-	-	-
	Area rehabilitated	0.50 ha	0.47	0.47	0.47	0.47	0.47
	Method of rehabilitation	plantati ons	plantati ons	plantati ons	plantati ons	plantati ons	plantatio ns
	No of Plant	1312	1250	1250	1250	1250	1250
Others	Retaining wall		100	100	100	100	100
	Garland drain around pit meters		100	100	100	100	100



Plantation programme is proposed a long haul road, office, nearby crushers and nearby villages outside the lease area for year 2020-2025. Green belt plantation covering an area 2.37 hectares will be carried out on along the 7.5 meter periphery of lease area and afforestation of 2.5 hectares is proposed along the haul road, office, workshop area .Plantation will be carried out at 3.0 meter spacing in three rows as per MOEFCC guide lines and post plantation care will be taken till the stabilization of trees In total 33% area of lease will be covered up to the end of mine

Year	No of plants	Area	Survival rate	Local Species of plants
2019-20	1250	0.47 hect.	About 95%	Neem, kikar ,Kikar kabli ,siras, pipal ficus , cicus, hareda, badberi , Sisam, or any other local species in consultation of forest office
2020-21	1250	0.47 hect..	About 95%	Neem, kikar ,Kikar kabli ,siras, pipal ficus , cicus, hareda, badberi , Sisam, or any other local species in consultation of forest office
2021-22	1250	0.47 hect.	About 95%	Neem, kikar ,Kikar kabli ,siras, pipal ficus , cicus, hareda, badberi , Sisam, or any other local species in consultation of forest office
2022-23	1250	0.47 hect.	About 95%	Neem, kikar ,Kikar kabli ,siras, pipal ficus , cicus, hareda, badberi , Sisam, or any other local species in consultation of forest office
2023-24	1250	0.47 hect.	About 95%	Neem, kikar ,Kikar kabli ,siras, pipal ficus , cicus, hareda, badberi , Sisam, or any other local species in consultation of forest office
Total	6250	2.35 Hect.	About 95%	Neem, kikar ,Kikar kabli ,siras, pipal ficus , cicus, hareda, badberi , Sisam, or any other local species in consultation of forest office



MSKJV
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RE-GRASSING

The area after mining activity will be backfilled by negligible waste, as majority of rock mass is utilized thus there will be small quantity of waste be there, at conceptual stage it will be back filled and rest area will be converted into a water reservoir. The back filled area and undisturbed area will be taken up for plantation and regressing as MoEFCC notification dated 16.1.2020 for the growth of, grass, fodder in the mining area

MSK JV project proponent lease holder shall after ceasing the mining operations, undertakes regressing in the mining area and any other area which may have been disturbed due to their mining activities and restore the land to the condition which is fit for the growth of regressing, fodder for flora and fauna etc

8.4 DISASTER MANAGEMENT AND RISK ASSESSMENT:

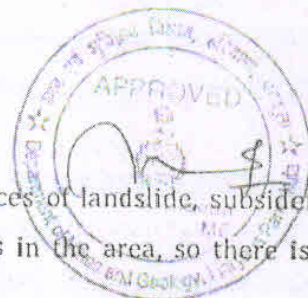
The topography of the area is such that, there are no chances of landslide, subsidence, inundation, fire, and seismic activities. No tailing dam exists in the area, so there is no chance of failure of this.

The management of MSK JV Stone mine is fully capable of risk assessment and disaster management. The mining activities in the lease area are proposed as per regulations of the MMR-1961.

A first aid facility is available at the mines site office. Competent persons (first aid trained) appointed as mining mate, Manager will provide first aid to injured person, if any. Trained persons kept first-aid kits with them. Transportation facilities for the injured persons are available at site for this purpose. Hospital facility is located at about 5.0 from lease area; Communication facility is available at mine.

In an emergency following person may contact.

1. Mahesh Pahal
JV partner, MSK JV
Atela Kalan
Mobile No: 9728698288



2. Shri B.K. Kushwaha,
Mines Manager
C/o MSK (JV)
P.O. Atela Kalan, Tehsil – Charkhi Dadri
District Bhiwani, Haryana
Mobile No.: 8709588421

8.5 CARE AND MAINTENANCE DURING TEMPORARY DISCONTINUANCE:

In case of any temporary discontinuance of the mining activities, the guards will watch & ward to prevent any in advert entry of the unauthorized person also ,All entries to the mine shall be properly fenced and closed with signboards . The duty & responsibility of mines manager is to visit all sites to check, the fencing, waste dump etc. during the working & during the period of the temporary discontinuance of the mining activities. the infrastructure facilities will continue to be used to maintain in safe working.

8.6 FINANCIAL ASSURANCE:

The Indian Bureau of mines has given guidelines for calculation of financial assurance on the basis of area utilized and area restored during the mining activity. The following Table indicating the break-up of areas in the Mining Lease for calculation of Financial Assurance-

S no.	Particulars	Area put on use at start of plan in hect.	Additional requirement of area during plan period in hect.	Total Area in hect.	Area considered as fully reclaimed & rehabilitated in hect.	Net area considered for calculation in hect.
1	Area under mining	32.30	3.86	36.16	0.0	36.16
2	Storage for top soil	0.0	0.0	0.0	Nil	0.0
3	Waste dump site	0.0	0.0	0.0	Nil	0.0
4	Mineral storage	0.0	0.0	0.0	Nil	0.0



5	Infrastructure (work shop, administrative building etc.), electric lines.	0.18	0	0.18	Nil	0.18
6	Road (Kacha way)	0.0	0.00	0.00	Nil	0.00
7	Railways	Nil	Nil	Nil	Nil	Nil
8	Mineral separation plant	Nil	Nil	Nil	Nil	Nil
9	Township area	Nil	Nil	Nil	Nil	Nil
10	Afforestation	2.50	0	2.50	0	2.50
11	Others (green belt)	3.37	0	3.37	Nil	3.37
12	Grand Total	38.35	3.86	42.21	0.00	42.21

CALCULATION OF FINANCIAL ASSURANCE

The financial assurance is applicable for the area put to use by lease and area broken, reclaimed and habilitated. The total broken area at the end of the scheme will be 42.21 hectares. the calculation of financial assurance is based on the provisions made by state govt. @15,000/per hectares maximum to 1.0 lac. as per under Haryana Minor Mineral Concession, Stocking, Transportation of Minerals and Prevention of Illegal Mining Rules, 2012 against reclamation and rehabilitation, beside this the project proponent is depositing amount of royalty and dead rent in an account with Department of Mines and Geology, Govt. of Haryana as per MMDR & R fund against compliance of reclamation and Rehabilitation provisions. In case of any deficit amount the Project proponent will deposit and comply in with Department of Mines and Geology, Govt. of Haryana.

Dated-
Place- Jaipur



Kireet Acharya
(Qualified Person)
KIREET ACHARYA
RD 'A' IN 3

Kireet Acharya
Qualified Person

Speed Post

(To be substituted bearing same number & date)

From:

The Director,
Department of Mines & Geology,
Haryana.

To:

M/s MSK (JV),
S-571, Greater Kailash,
Part-II, New Delhi - 110 048.

Memo No. DMG/HY/ML/Atela Kalan/2013/155
Dated Chandigarh, the 03.01.2014

Subject:

Acceptance of the highest bid in respect of minor mineral mines of "Stone alongwith Associated minor minerals" of "Atela Kalan" over an area of 54.00 hectares in the Tehsil Dadri district Bhiwani offered in the auction held on 30.12.2013 and issuance of Letter of Intent (LoI) regarding.

You offered the highest bid of Rs. 16,07,00,000/- (Rs. Sixteen Crores seven lacs only) per annum, against the Reserve Price of Rs. 11,77,00,000/- per annum, for obtaining the Mining lease of Minor Mineral Mines namely "Atela Kalan" over an area of 54.00 hectares falling in Khasra numbers 103, 104min, 105, 106, 107min of Villages "Atela Kalan" in Tehsil Dadri, District Bhiwani, in the auction held on 30.12.2013 in the office of the Mining Officer, Bhiwani for the grant of mining leases of minor mineral mines of stone alongwith associated minor minerals of the districts of Bhiwani.

2. You are hereby informed that the state government has accepted the highest bid of Rs. 16,07,00,000/- [Rs. Sixteen Crores seven lacs only] per annum, offered by you in respect of the above said minor mineral mines/quarries of "Atela Kalan" under the provisions of the Haryana Minor Mineral Concession, Stocking, Transportation of Minerals & Prevention of Illegal Mining Rules-2012 (State Rules). Accordingly, you have become the successful bidder in respect of "Atela Kalan" quarries of the district Bhiwani.

3. The State Government having accepted the aforementioned highest bid offered by you, the Department is pleased to issue this Letter of Intent (LoI) for grant of mining lease to you, in respect of the Mines/area namely "Atela Kalan" of stone alongwith associated minor minerals subject to the following terms and conditions:



5	Infrastructure (work shop, administrative building etc.), electric lines.	0.18	0	0.18	Nil	0.18
6	Road (Kacha way)	0.0	0.00	0.00	Nil	0.00
7	Railways	Nil	Nil	Nil	Nil	Nil
8	Mineral separation plant	Nil	Nil	Nil	Nil	Nil
9	Township area	Nil	Nil	Nil	Nil	Nil
10	Afforestation	2.50	0	2.50	0	2.50
11	Others (green belt)	3.37	0	3.37	Nil	3.37
12	Grand Total	38.35	3.86	42.21	0.00	42.21



CALCULATION OF FINANCIAL ASSURANCE

The financial assurance is applicable for the area put to use by lease and area broken, reclaimed and habilitated. The total broken area at the end of the scheme will be 42.21 hectares. The calculation of financial assurance is based on the provisions made by state govt. @15,000/per hectares maximum to 1.0 lac. as per under Haryana Minor Mineral Concession, Stocking, Transportation of Minerals and Prevention of Illegal Mining Rules, 2012 against reclamation and rehabilitation, beside this the project proponent is depositing amount of royalty and dead rent in an account with Department of Mines and Geology, Govt. of Haryana as per MMDR & R fund against compliance of reclamation and Rehabilitation provisions. In case of any deficit amount the Project proponent will deposit and comply in with Department of Mines and Geology, Govt. of Haryana.

Dated-
Place- Jaipur



Kireet Acharya
(Qualified Person)
KIREET ACHARYA
RW 1/1/1, 3

Kireet Acharya
Qualified Person

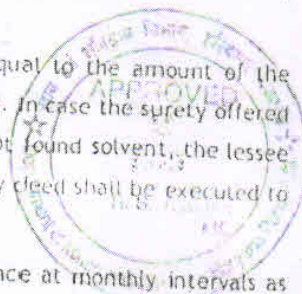
- (ii) The period of lease shall be 12 years and the same shall commence with effect from the date of grant of environmental clearance by competent authority or on expiry of a period of 12 months from the date of this communication of acceptance of highest bid/ issuance of "Letter of Intent", whichever is earlier;
- (iii) Though due care had been taken in specifying the details of the area of the mining sites, however, in case of any inadvertent mistake, the same shall be got rectified/corrected before execution of the lease deed/agreement.
- (iii) The amount of the highest bid i.e. Rs. 16,07,00,000/- [Rs. Sixteen Crores seven lacs only] per annum shall be the "Annual dead rent" payable by you in the manner prescribed in the lease deed/agreement to be executed on form ML-1 appended to the State Rules.
- (iv) The above said annual dead rent shall be increased @ 25% on completion of each block of three years. Accordingly, the year-wise amount of the annual lease money shall be as per details given below:

S. No.	Year of the lease Period	Annual Dead Rent
1	First Year	Rs. 16,07,00,000
2	Second Year	Rs. 16,07,00,000
3	Third Year	Rs. 16,07,00,000
4	Fourth Year	Rs. 20,08,75,000
5	Fifth Year	Rs. 20,08,75,000
6	Sixth Year	Rs. 20,08,75,000
7	Seventh Year	Rs. 25,10,93,750
8	Eighth Year	Rs. 25,10,93,750
9	Ninth Year	Rs. 25,10,93,750
10	Tenth Year	Rs. 31,38,67,188
11	Eleventh Year	Rs. 31,38,67,188
12	Twelfth Year	Rs. 31,38,67,188

- (v) As per the terms and conditions of the grant, you are liable to deposit Rs. 4,01,75,000/- i.e. equal to 25% of the annual bid amount as "security deposit" and Rs. 1,33,91,667/- on account of one month's advance dead rent, out of which you have already deposited an amount of Rs. 1,60,70,000/- i.e. equal to 10% of the annual bid amount as "initial bid security" at the fall of hammer. The balance amount of Rs. 2,41,05,000/- of the bid security i.e. 15% of the annual bid amount along with Rs. 1,33,91,667/- on account of one month's advance dead rent shall be deposited before commencement of the mining operations or before expiry of the period of 12 months, whichever is earlier.
- (vi) You shall have to execute lease deed in Form ML-1 appended to the State Rules within a period of 90 days from the date of issuance of this communication/ grant of LoI. The stamp as applicable at the time of execution/registration of the agreement shall be payable by you.



- (viii) Four copies of draft lease deed/agreement shall be submitted, of which the first copy shall be submitted on stamp paper of Rs. 1,38,98,040/- (Rs. One crore thirty eight lakhs ninety eight thousand forty only). This amount is subject to audit and in case of any difference found at a later stage, the difference shall be payable by you on demand;
- (ix) The lease deed would also be required to be got registered on payment of the applicable Registration fee;
- (x) In case you fail to execute the Lease Deed within the prescribed period of 90 days, this Lot shall be deemed to have been revoked and the amount of initial bid security deposited at the time of auction shall be forfeited. Further, the balance amount of 15% towards the bid security, amounting to Rs. 2,41,05,000/- being the 15% of the annual bid amount, shall be recovered as arrears of land revenue and, you, as the Lot holder/defaulters, shall be debarred from participation in any future auctions for a period of 5 years;
- (xi) You shall also furnish a solvent surety for a sum equal to the amount of the annual bid for execution of the lease deed/agreement. In case the surety offered by the lessee during the subsistence of the lease is not found solvent, the lessee shall offer another solvent surety and a supplementary deed shall be executed to this effect.
- (xii) You shall be liable to deposit the Dead Rent in advance at monthly intervals as per provisions of lease deed/agreement i.e. from the date of commencement of the lease deed;
- (xiii) You shall be liable to pay dead rent as determined through open auction or shall pay royalty in respect of each of the minor minerals extracted or removed or consumed by you or by your agent, manager, employee etc., whichever is more. The royalty shall be payable at the rates prescribed in the First Schedule appended in the State Rules and as may be revised by the State Government from time to time.
- (xiv) You shall also deposit/pay an additional amount equal to 10% of the due Dead Rent/Royalty, whichever is more, along with the monthly installments towards the 'Mines and Minerals Development, Restoration and Rehabilitation Fund'.
- (xv) You shall also be liable to pay advance income tax as per provisions of Section 206(c) of Income tax act in addition to Dead Rent/Royalty, payable as per terms and conditions of lease deed/agreement.
- (xvi) On enhancement of the annual dead rent with the expiry of every three years period, you shall deposit the balance amount of security so as to upscale the security amount equal to 75% of the revised annual dead rent as applicable for



Authorised Signatory

one year with respect to the next block of three years. No interest, whatsoever, shall be payable on the security amount deposited under the prescribed security head of the government;

- (xvi) You shall prepare a Mining Plan along with the Mine Closure Plan (Progressive & Final) as per chapter 10 of the State Rules for the "Mining site" and shall not commence mining operations in any area except in accordance with such Mining Plan duly approved by an officer authorised by the Director, Mines & Geology, in this behalf.
- (xvii) Further, the actual mining will be allowed to be commenced only after prior Environmental Clearance is obtained by you as the Lol holder/mining lessee for the Minor Mineral Stone Mines/Quarries from the Competent Authority as required under EIA notification dated 14/9/2006, as amended from time to time by the MoEF, Govt and guidelines/ circulars issued in this behalf;
- (xviii) The Mining lessee to whom the mining rights have been granted through this lease would also be liable to pay the following to the landowners for undertaking mining operation:-
- (a) Annual rent in respect of the land area blocked under the concession but not being operated, and
 - (b) Rent plus compensation in respect of the area used for actual mining operations.
- (xix) The amount of annual rent and the compensation shall be settled mutually between the landowner and the lessee. In case of non-settlement of the rent and compensation, the same shall be decided by the District Collector concerned in accordance with the provisions contained in Chapter 9 of the "Haryana Minor Mineral Concession, Stocking, and Transportation of Minerals and Prevention of Illegal Mining Rules, 2012".
- (xx) The total mineral excavated and stacked by the lease holder within the area granted on mining lease shall not exceed two times of the average monthly production as per approved Mining Plan at any point of time;
- (xxi) The lessee shall not stock any mineral outside the concession area granted on mining lease, without obtaining a valid licence as per provisions contained in Chapter 14 of the State Rules;
- (xxii) The lessee shall not carry out any mining operations in any reserved/ protected forest or any area prohibited by any law in force in India, or prohibited by any authority without obtaining prior permission in writing from such authority or officer authorized in this behalf. In case of refusal of permission by such



authority or officer authorized in this behalf, lessee(s) shall not be entitled to claim any relief in payment of Deed Rent/Royalty on this account;

(xxiii) A safety margin of two meters (2m) shall be maintained above the ground water table while undertaking mining and no mining operations shall be permissible below this level unless a specific permission is obtained from the competent authority in this behalf;

(xxiv) The lessee shall be under obligation to make available up to 75% of the produced raw material/stone to the downstream industries i.e. stone crushers operating in the area. However, in case lessee is unable to find market for his raw mineral to the extent of 75% of production, he would be required to obtain prior permission of the department to consume raw mineral in excess of 25% of his production but not exceeding 50% of his production for grounds to be recorded in writing;

(xxv) No transfer of lease shall be permissible for a period of first five years of grant of lease. However, on submission of an application, in accordance with the provisions of the Haryana Minor Mineral Concession, Stocking, Transportation of Mineral & Prevention of Illegal Mining Rule, 2012, and after satisfying itself the state government may allow inducting of other partners/share holders to the extent of forty nine percent of the total shareholding of the original leaseholder;

(xxvi) The lessee shall be under obligation to carry out mining in accordance with all other provisions as applicable under the Mines Act, 1957, Mines and Minerals (Development and Regulation) Act, 1957, Indian Explosives Act, 1884, Forest (Conservation) Act, 1980 and Environment (Protection) Act, 1986 and the rules made thereunder, Wild Life (Protection) Act, 1972, Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

4. Accordingly, you are advised to submit the Draft Mining Lease deed/agreement on Form ML-1 (in Four copies) appended to the Haryana Minor Mineral Concession, Stocking, Transportation of Minerals & Prevention of Illegal Mining Rules-2012, first copy of which shall be on the stamp paper of Rs. 1,38,98,040/- (Rs. One crore thirty eight lakhs ninety eight thousand four only), along with other requisite documents including a solvent surety(s) for a sum equal to the amount of the annual bid for execution of the agreement, within a period of 90 days from the date of issue of this bid acceptance letter and the seal.

5. Please note that one Sh. Rajbir Singh had filed a CWP bearing No. 27700 of 2013 before the Hon'ble Punjab & Haryana High Court challenging the conditions of the auction notice and the rules relating to payment of Rent and Compensation to the land owners and the time of 12 months allowed to the highest bidders/LoI holders for



obtaining the Environmental Clearance as per EIA notification of the Ministry of Environment & Forests, Government of India. While the Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has also directed vide its orders dated 17.12.2013 that the same shall be subject to final outcome of the above said CWP. Accordingly, this acceptance/Lol is being issued subject to the outcome of CWP No. 27700 of 2013 pending before Hon'ble Punjab & Haryana High Court.

P.L.
State Mining Engineer,
for Director Mines & Geology, Haryana. *03/01/14*

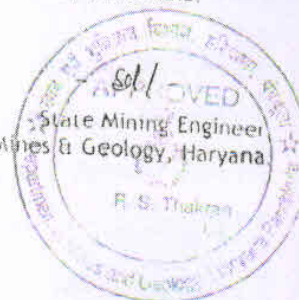
Endst.No. DMG/HY/ML/Atela Kalan/2013/156

Dated: 03.01.2014

A copy is forwarded to the following for information and necessary action:-

1. The Chairman Haryana State Pollution Control Board, Sector-6, Panchkula.
2. The Deputy Commissioner, Bhiwani.
3. The Mining Officer, Bhiwani.

Sd/-
State Mining Engineer
for Director Mines & Geology, Haryana



include his heirs, administrators, representatives) has been offered as solvent surety for the foresaid amount, and whereas the lessee is in possession of a Income Tax Clearance Certificate.

Liberties and privileges to be exercised and enjoyed by the Lessee(s).

The following liberties, powers and privileges may be exercised and enjoyed by the lessee subject to the other provisions.

(1) In consideration of the rents and royalties, covenants and agreements hereinafter contained and on the part of the Lessee to be paid, observed and performed, the Government hereby grants and demises unto the lessee all those mines/beds/veins (and minerals,) situated in or under the lands which are referred to in clause (2) together with the liberties, powers and privileges to be executed or enjoyed in connection herewith which are hereinafter mentioned in Part-I subject to the restrictions and conditions as to exercise and enjoyment of such liberties, powers and privileges which are hereinafter mentioned in Part-II and subject to other provisions of this lease.

(2) The area of the said lands is as follows:

All the tract of land situated at village Atela Kalan in Tehsil Dadri, District Bhiwani bearing Nos. 103, 104min, 105, 106min, 107min containing an area of 54.00 hectares or thereabouts delineated on the plan hereto annexed and bounded as follows:

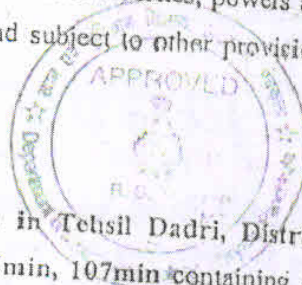
On the North "Atela Kalan"

On the South "Atela Kalan Pahar"

On the East "Atela Kalan Pahar"

On the West "Highway - 20"

and (hereinafter referred to as the 'said lands' or the 'leased area')



For
Auth

Mala Kumar

Saraj

Velham

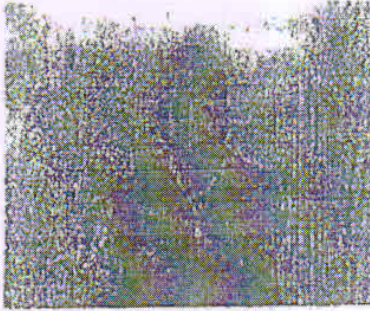
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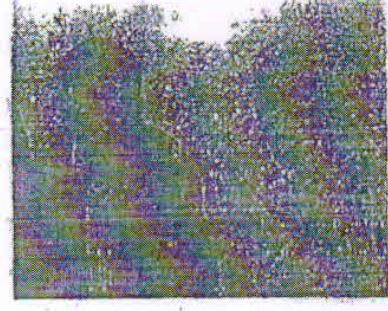
Reg. No. 5480 Reg. Year 2014-2015 Book No. 1



पट्टा देने वाला



पट्टा लेने वाला



गवाह

पट्टा देने वाला

श. MO. रामेन्द्र प्रसाद यादव

पट्टा लेने वाला

श. महेश

गवाह 1:- रामकिशन नन्दन

गवाह 2:- जगदीश

प्रमाण-पत्र

प्रमाणित किया जाता है कि यह प्रलेख क्रमांक 5,480, आज दिनांक 13/01/2015 को बही नं: 1 जिल्द नं: 301 के पृष्ठ नं: 101 पर पंजीकृत किया गया तथा इसकी एक प्रति अतिरिक्त बही सख्या 1 जिल्द नं: 3,268 के पृष्ठ सख्या 95 से 96 पर चिपकाई गयी। यह भी प्रमाणित किया जाता है कि इस दस्तावेज के प्रस्तुतकर्ता और गवाहों ने अपने हस्ताक्षर/दिग्गम अंगुलि मेरे सामने किये हैं।

दिनांक 13/01/2015



जयपुर जिला न्यायाधीश
जयपुर जिला न्यायाधीश

Director General, Mines and Geology, Haryana (hereinafter referred to as the "State Government") which expression shall where the context so admits, include the successors and assigns) of the one part;

AND

MSK (JV), an Association of Persons of (i) Mala Kumar Engineers Pvt. Ltd. S-571, Greater Kailash-II, New Delhi, (ii) Shivalaya Constructions Co. Pvt. Ltd. 359, Sector - 14, Rohtak and (iii) Khatushyam Transport Co. Pvt. Ltd. H. No. 251, Wurd No.1, M.C. Colony Charkhi Dadri, Bhiwani, companies registered under Companies Act 1956 (Act under which company incorporated) and having its registered office at S-571, Greater Kailash, Part-II, New Delhi-110048 acting through Shri Abhishek Kumar, Authorised Signatory (hereinafter referred to as the 'Lessee' which expression shall where the context so admits include their respective heirs, executors, administrators, representatives and permitted assigns) of the other part.

Whereas the lessee has offered the highest bid of Rs. 16,07,00,000/- (Rupees Sixteen Crores Seven Lacs Only) per annum in the bid/auction held on 30.12.2013 for obtaining a mining lease for "Stone along with Associated Minor Minerals" (name of minor minerals) in respect of the lands hereinafter described in clause 2 and such bid had been accepted by the Government or any officer authorized by it in this behalf and the lessee/ has deposited with the Government, a sum of Rs. 1,60,70,000/- (Rupees One Crore Sixty Lacs Seventy Thousand Only) as initial bid security (10% of the annual bid amount) and (i) Shri Mahesh S/o Shri Om Parkash R/o Village Datoli, Tehsil Charkhi Dadri, District Bhiwani (ii) Smt. Saroj W/o Shri Shripal, H. No. 1140-41, Sector-1, Rohtak (iii) Smt. Sumitra Nandal W/o Shri Satish Nandal, H. No. 270/29, Ram Gopal Colony, Rohtak (iv) Shri Vinam Nandal W/o Shri Pardeep Nandal, 270/29, Ram Gopal Colony, Rohtak (v) Smt. Mala Kumar, W/o Shri Sanjiv Kumar, R/o S-141, 2nd Floor, Greater Kailash-II, New Delhi and (vi) Shri Manuj S/o Shri Jagdish R/o M.C. Colony, Charkhi Dadri, District Bhiwani (referred to as the 'surety' which expression shall where the context so admits,



For MSK "JV"
Authorized Signatory

Mala Kumar

Saroj

Vinam

Sumitra

Manuj Khat

Manuj

प्रलेख नः 5480

दिनांक 13/01/2015

डीड संबंधी विवरण	
डीड का नाम	LEASE
तहसील/सब-तहसील दादरी	
गांव/शहर	अटोला कला

धन संबंधी विवरण	
राशि जिस पर स्टाम्प ड्यूटी लगाई 231,633,984.00 रुपये	स्टाम्प ड्यूटी की राशि 13,898,040.00 रुपये
रजिस्ट्रेशन फीस की राशि 15,000.00 रुपये	पेस्टिंग शुल्क 2.00 रुपये

Drafted By: DGM

यह प्रलेख आज दिनांक 13/01/2015 दिन मंगलवार समय 1:27:00PM बजे श्री/श्रीमती/कुमारी अरुण कुमार IAS DGM&G पुत्र/पुत्री के माते/प्रायश्चित्त/कुमारी निवासी भिवानी द्वारा पंजीकरण हेतु प्रस्तुत किया गया।

हस्ताक्षर प्रत्यक्षता

समुक्त सर्व रजिस्ट्रार
दादरी

श्री अरुण कुमार IAS DGM&G thru च. MO. राजेन्द्र प्रताप चादव(OTHER)

उपरोक्त पट्टा क्षेत्र चलाय श्री/श्रीमती/कुमारी क. महेश पट्टा लेने बला हाजिर है। प्रस्तुत प्रलेख के तथ्यों की दोनों पक्षों ने सुनकर तथा समझकर स्वीकार किया। दोनों पक्षों की पहचान श्री/श्रीमती/कुमारी रामकिशन नम्बरदार पुत्र/पुत्री/पत्नी श्री निवासी दादरी य. श्री/श्रीमती/कुमारी जसवीन पुत्र/पुत्री/पत्नी श्री/श्रीमती/कुमारी जगदीश निवासी दादरी ने की। साक्षी नः 1 को हम नम्बरदार/अधिकारता के रूप में जानते हैं तथा वह साक्षी नः 2 की पहचान करता है।

दिनांक 13/01/2015

हस्ताक्षर प्रत्यक्षता
दादरी



HARIS-EX

NIC-HSU

(3) The lessee shall hold the premises hereby granted for a term of 12 years w.e.f 03.01.2015.

PART-I

Liberties and privileges to be exercised and enjoyed by the Lessee(s)

The following liberties and privileges may be exercised and enjoyed by the lessee subject to the other provisions.

1. To enter upon land and search for win, work, etc.

Liberty at all times during the term hereby demised to enter upon the said lands and to search for mineral, bore, dig, drill for win, work, dress, process, convert, carry away and dispose of the said mineral(s).

2. To sink, drive and make pit, shafts and inclines, etc.:

Liberty for or in connection with any of the purposes mentioned in this clause to sink, drive, make, maintain and use in the said land and pits, shafts, inclines, drifts, levels, waterways, airways and other works and to use, maintain, deepen or extend any existing works of the like nature in the said lands.

3. To bring and use machinery, equipment:

Liberty for or in connection with any of the purposes mentioned in this clause to erect, construct, maintain and use on or under the said lands any engine, machinery, plan, dressing floors, furnaces, coke ovens, brick kilns, workshop, store houses, bungalows, godowns, shed and other buildings and other works and conveniences of the like nature on or under the said lands.

4. To use water from streams etc:

Liberty for or in connection with any of the purposes mentioned in this clause but subject to the rights of any existing or future lessees and with the written permission of the Collector concerned to appropriate and use water from any streams, water course, springs or other source in or upon the said lands and to divert, step up or dam any such stream or water-course and collect or impound any such water and to make, construct and maintain any water course, cultivated land, village buildings or watering places for livestock of a reasonable supply of water as before accustomed nor in any way to foul or pollute any streams or springs : provided that the lessee shall



For MSK "JV"

Authorized Signatory

Mala Kumar

Veenam
Supervisor

Mammy Rahel

not interfere with navigation in any navigable stream nor shall divert such stream without the previous written permission of the Government.

5. To fell undergrowth and utilise timber and trees etc.:

Liberty for or in connection with any of the purposes mentioned in this lease deed, to clear undergrowth and brush wood. Lessee shall not fell any trees or timber standing or found on the said lands without obtaining prior permission in writing from the collector of the District or the Chief Conservator of Forests in case of Forest areas as the case may be. In case such permission is granted, he shall pay in advance, the price of the trees/timber to be felled to the said Officer at the rates, fixed by him.

6. To get building and roads material, etc.:

Liberty for or in connection with any of the purposes, mentioned in this lease deed, to quarry and get stones, gravel and other building and road materials and ordinary clay and to use and employ the same and to manufacture such clay into bricks or tiles and to use such bricks, tiles but not to sell any such material, bricks, tiles.

7. To use land for stacking purpose:

Liberty to enter upon and use a sufficient part of the surface of the said lands for the purpose of stocking, storing or depositing therein any produce of the mines including over burden or waste material and works carried on and tools, equipment and other materials needed for mining operations.

8. To install fuel pumps or stations for diesel or petrol for self use:

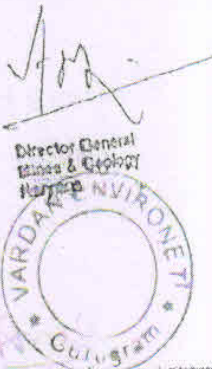
Liberty to use a sufficient part of the land for installing fuel pumps or stations for diesel or petrol for self use or consumption required for mining operations in the lease area, subject to permission of the competent authority.

9. To construct magazine for explosive and storage sheds:

Liberty to construct magazine for storage of explosive and storage sheds for explosive related substances with permission from licensing authority.

10. Liberty to seek permission for diversion of public roads, overhead electric lines:

Liberty and power to request to the competent authority for diversion of public road over head electric lines passing through the concession area at the expenses of lessee to ensure scientific and systematic mining.



[Signature]
M. S. K.

Mala Kumar
Saroj
Veeram
Sunita

Manoj Patel
[Signature]

[Signature]
A. S. K.

Part-II

Restrictions as to the exercise of the liberties by the lessee

The liberties and privileges granted under Part- I are subject to the following restrictions and subject to other provisions of this lease:

1. No mining operations within the limit of public works, etc:

The lessee shall not carry on, or allow to be carried on any mining operations:-

- (i) within a distance of fifty meters from the outer periphery of the defined limits of any village *abadi*, National Highway, State Highway, Major District Roads (MDR) and other District Roads (ODRs) where such excavation does not require use of explosives, unless specifically relaxed and permitted by the competent authority, or
- (ii) within a distance of 250 meters from the outer periphery of the defined limits of any village *abadi*, National Highway, State Highway, Major District Roads (MDR) and Other District Roads (ODRs) where use of explosives is required, unless specifically relaxed and permitted by the competent authority or any specific dispensation is obtained from the Director, Mines Safety; or
- (iii) within a distance of at least 10 meters from any other public roads; or
- (iv) within a distance of 75 meters from any railway line or bridge except under and in accordance with the written permission of the railway administration concerned. The Railway Administration or the government may in granting such permission, impose such conditions as it may deem fit.

Explanation:- For the purpose of this clause the expression Railway Administration shall have the same meanings as it is defined by sub section (4) of section 3 of the Indian Railway Act, 1890.

Provided that where the continuance of any mining operations in any area, in the opinion of the Government is likely to endanger the safety of any National or State Highway, road, bridge, drainage, reservoir, tank, canal or other public works, or public or private buildings or in the public interest or in the interest of environment/ecology of the area, the Government may determine the lease after



For MSK "JV"


Authorized Signatory

Mala Kumar Manoj Patel
Suresh
Veeram
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giving 60 days notice to the lessee in this behalf and the lease shall stand terminated on the date mentioned in the notice.

2. Notice for surface operation in land not already in use :

Before using for surface operations any land which has not already been used for such operation, the lessee shall give notice in advance to the Collector of the district, the Director and the Officer-in Charge Bhiwani Mines in writing along with copy of permission to undertake mining specifying the situation and the extend of the land proposed to be so used and the purpose for which the same is required and the said land shall not be so used, if objection is issued by the Collector.

3. Not to use the land for other purposes:

The lessee shall not cultivate or use the land for any other purpose other than those specified in the lease-deed

4. Disposal of mineral(s) only on issuance of Mineral Transit Pass to the vehicles having Mineral Transit Permit:

The holder of mining lease shall not sell/disposed off any mineral or mineral products from the concession area without a Mineral Transit Pass and shall sell/disposed of the mineral to such vehicle which holds Mineral transit Permit issued under the provision of the Haryana Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012.

5. Stacking of mineral(s) inside lease hold area:

The lessee shall not stock the mineral(s) excavated inside the lease hold area at the designated site more than twice the quantity of the average monthly production as per approved mining plan/scheme.

6. Stacking of mineral(s) outside lease hold area:

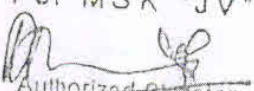
The lessee shall not stock any minor mineral(s) granted under the lease, outside the lease hold area without obtaining Mineral Dealer licence as per provisions of the Haryana Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012.

7. Stacking and storage of incidentally extracted major minerals:

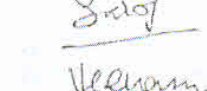
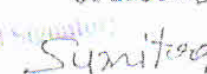
In case lessee, while extracting minor mineral(s) given on lease, incidentally extracts any major mineral not given on lease, the same shall be the property of the

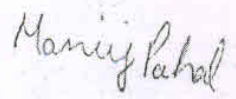
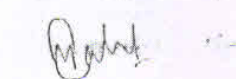



Director General
Mines & Geology
Haryana

For MSK "JV"

Authorized Signatory


Sumit Singh


Mala Kumar

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Manoj Lal

Manoj

Government and lessee shall be under an obligation to stack and store it and maintain its proper record in accordance with the direction of the Director or any officer authorised by him who shall also be competent to prescribe the procedure for its disposal.

8. Penalties in case of non-compliance of clause (9) :

In case it is detected that lessee has disposed off incidentally extracted major mineral referred to in sub rule (20) of rule 56 in whole or part there of or failed to maintain the record of stored mineral he shall be liable to penalties as specified in sub section (1), (4) and (5) of section 21 of Mines & Minerals (Development and Regulation) Act 1957 and also premature determination of mining lease in terms of sub-rule (1) of rule 60 of the said rules.

9. Restrictions of mining operations above Ground Water Table :

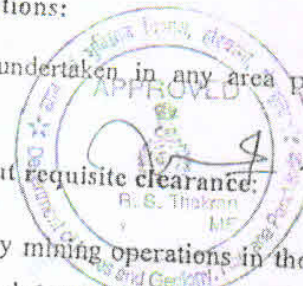
A safety margin of two meters shall be maintained above the ground water table while undertaking mining and no mining operations shall be permissible below this level unless a specific permission is obtained from the competent authority in this behalf.

10. Restrictions of surface operations:

No mining operations shall be undertaken in any area prohibited by any authority or by the orders of any Court.

11. No mining operations without requisite clearance:

The lessee shall not undertake any mining operations in the area granted on mining lease without obtaining requisite clearance from the competent authority as required for undertaking mining operations.



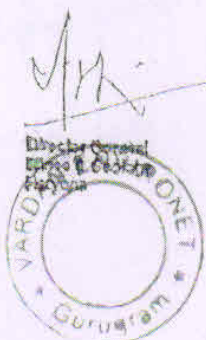
Part - III

Covenants of the Lessee

The lessee/ lessees hereby covenant(s) with the Government as follows:-

1. Rate of Royalty:

The lessee shall pay royalty on the quantity of the said minor mineral dispatched from the leased area at the rates as per First Schedule of the Haryana



For MSK "JV"

Authorized Signatory

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Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012 and as may be revised by the State Government from time to time.

2. Surface rent:

The lessee shall pay for the surface area occupied by him as per rule 62.

3. Dead rent:

The lessee shall pay for every year dead rent at the rate of Rs. 16,07,00,000/- (Rupees Sixteen Crores Seven Lacs Only) per annum:

- a) Where the mining lease is granted by competitive bid/auction under rule 9:- The highest bid received in the open bid/auction at the rate of Rs. 16,07,00,000/- (Rupees Sixteen Crores Seven Lacs Only) per annum shall become the 'annual dead rent' amount payable by the lessee. The rate of annual dead rent initially determined on the basis of competitive bids/ auctions shall be increased @ 25% on completion of each block of three years.

Explanation: If the initially determined amount of annual dead rent is Rs. 100/-, it shall be increased to Rs. 125/- with the commencement of the fourth year and to Rs. 156.25 with the commencement of the 7th year and so on and so forth for the next each block of three years.

Provided further that if the lease permits the working of more than one minor mineral in the same area, the Government may charge separate dead rent in respect of each minor mineral:

Provided that the mining of one minor mineral does not involve the working of another minor mineral.

Provided further that the lessee/lessees shall be liable to pay the dead rent or royalty in respect of each mineral, whichever be higher but not both.

Provided further that lessee/ lessees shall deposit the dead rent at the rates as revised and notified from time to time by the State Government.



[Signature]
Director General
Mines & Geology
Gandhinagar

For MSK "JV"

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Authorized Signatory

Mala Kumar

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4. Security deposit:

- (a) In case of mining leases granted through competitive bid/auction under rule 9.

25% of the annual bid amount/ rate of dead rent. The security amount to be deposited as per following:-

- i) 10% as initial bid security at the time of auction
- ii) 15% of the annual bid amount before commencement of mining operations or before the expiry of period allowed, which shall not be more than 12 months, whichever is earlier.

Provided on enhancement of the dead rent after expiry of every three year period of lease the lessee shall deposit the balance amount of security so as to up-scale the security amount equal to 25% of the revised annual dead rent as applicable for one year with respect to next block of three years

- (b) In case of mining leases granted on application under Rule 10 the security amount shall be deposited in accordance with the Rule 11 of the Haryana Minor Mineral Concession, Stocking and Transportation and Prevention of Illegal Mining Rules-2012.

5. Mode of payment of dead rent/ royalty and surface rent

- (a) In case of mining lease granted under rule 9, the lessee shall deposit one advance installment of dead rent before commencement of mining operations or before the expiry of period allowed, which shall not be more than 12 months, whichever is earlier, along with 15% of the balance security amount as per clause 4(a) above.
- (b) The lessee during the subsistence of the lease, pay in advance to the Government the installments of the dead rent in respect of the said land given to him/ them on mining lease as per following schedule:-

Sr. No.	Value of Annual dead rent	Periodicity of payment
1	2	3
i)	Up to Rupees 10.00 lakhs.	Lump-sum in advance after adjustment of the amount deposited along with the security amount.



Director General
Mines & Geology
Haryana

[Signature]

Mala Kumar

Rajesh

Venema

Syomitra

Mamraj Palak

Mali

Sr. No	Value of Annual dead rent	Periodicity of payment
1	2	3
ii)	Above Rupees 10.00 lakhs and upto Rupees 50.00 lakhs.	In four quarterly installments in advance on the 1 st of April, 1 st of June, 1 st of September and 1 st of December of the year.
iii)	Above Rupees 50.00 lakhs.	In monthly installments in advance.

Note: The amount of one advance installment deposited at the time of commencement of the mining operations or within time allowed for the same shall be adjusted in a manner that the subsequent installments are payable for a full calendar month/quarter/year, as the case may be.

- (c) The lessee shall be liable to pay the amount of royalty on the mineral excavated and dispatched at the rate specified in the first schedule or dead rent, whichever is more and not both.
- (d) Where the amount of royalty payable in respect of a month exceeds the amount of dead rent deposited in advance, the lessee shall deposit such amount of royalty on the mineral extracted and dispatched or consumed by the 7th day of the following month after adjusting the amount of advance dead rent already deposited.
- (e) In cases where the lessee has paid the amount of royalty or dead rent during a part of the year, which is equal to or more than the annual dead rent payable for the year, he shall not be required to deposit the advance dead rent for the remaining period of the said year and the royalty for the balance part of the year shall be deposited by the 7th day of the following month.

6. Amount to be deposited on account of Mines and Minerals Development Restoration and Rehabilitation Fund

Where the lessee is operating the area, he shall also deposit/ pay an additional amount, equal to 10% of the due dead rent or royalty, whichever is more along with amount of installments on account of dead rent or royalty, towards the 'Mines & Minerals Development Restoration and Rehabilitation Fund' separately established under these rules.



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Director General
Mines & Geology
Haryana

For MSK "JV"
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Authorized Signatory

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7. Interest on delayed payments.

In case of any default in payment of the installments of dead rent/contract money/ contribution to the Mines & Minerals Development (Restoration and Rehabilitation) Fund on the due date(s), the amount would be payable along with interest at the following rates:

Sr. No.	Period of delay	Rate of Interest applicable
(i)	If paid within a period of 7 days from the due date	A grace period of up to 7 days is allowed without any interest
(ii)	If paid after 7 days but up to 30 days of the due date	15% on the amount of default for the period of default including the grace period;
(iii)	If paid after 30 days but within 60 days of the due date	18% on the amount of default for the period of default including the grace period;
(iv)	Delay beyond 60 days of the due date	It would amount to a 'breach', invite action for termination of the lease/ contract and the entire outstanding amount would be recoverable along with interest calculated @ 21% for the entire period of default.

8. Working of newly discovered minerals:

If any minor mineral, not specified in the lease, is discovered in the leased area, the lessee shall report the discovery without delay to the Government and shall not win or dispose of such minor mineral without obtaining a lease therefore. If he fails to apply for such a lease within six months from the discovery of the minor mineral, the Government or the authorised officer may give the lease in respect of such mineral, to any other person.

Provided that the Director or an officer authorized in this behalf, on being satisfied that the availability of such minor mineral(s) is not of sufficient quantity and quality and no separate lease is required for the newly discovered minor mineral(s), may allow the contractor(s) by issuing separate permit in Form 'PIM2' for the disposal of specific quantity of such newly discovered minor mineral(s) on payment of advance royalty at the rates prescribed in the First Schedule and other amounts as specified under sub-rule (19) of Rule 56



[Signature]
Director General
Mines & Geology
Haryana

For MSK JV
[Signature]
Authorized Signatory

[Signature] Anila Kumar
[Signature] Savoj
[Signature] Veerum
[Signature] Supritia

[Signature] Manoj Pahel
[Signature] [illegible]

of the said rules, for the period not exceeding thirty days at one time. The royalty payable on the newly discovered minor mineral(s) shall be in addition to the royalty for the mineral already granted on lease.

Provided further that in case lessee further applies for disposal of such mineral(s), and the Director or any other officer authorized by him is satisfied that such minor mineral(s) is still available in the area, he may further grant subsequent permission(s):

Provided further that the grant of such permit may be refused for reasons to be recorded in writing:

9. To commence mining operations within 180 days and carry them on properly:

Unless the Government for sufficient cause otherwise, the lessee shall commence mining operations 180 days from the date of execution of the lease and shall thereafter conduct such operations in a proper, skilful and workman like manner.

Explanation:—For the purpose of this clause, mining operations shall include the erection of machinery laying of a tramway or construction of a road in connection with the working of the mine.

10. To erect and maintain boundary pillars etc.

The lessee shall at his own expenses, erect and at all times maintain and keep in good repairs boundary marks and pillars according to the plan annexed to the lease. Each of the pillars should be numbered and every pillar shall have GPS reading.

11. Accounts :

The lessee shall keep correct accounts showing the quantity and other particulars of all minerals obtained from the mines and the number of persons employed therein and a complete plan of the mine and shall allow any officer authorised by the Haryana Government or the Central Government in that behalf to examine at any time any accounts and records maintained by him, and shall furnish to the Haryana Government or the Central Government with such information and returns as it may require.



V.K.
Director, General
Mines & Geology
Haryana

For MSK "JV"

[Signature]
Authorized Signatory

Trala Kumar

Saraj

Veervam

Sunil

Manoj Lal

[Signature]

[Signature] of Signat

12. To allow facilities to other lessees etc.:

The lessee shall allow existing and future licensees or lease holders/contractors of any land which is comprised in or adjoins or is reached by the land, held by the lessee, reasonable facilities for access thereto.

13. To allow entry to officers :

The lessee shall allow any officer authorised by the Haryana Government and the Central Government to enter upon any building, excavation or land comprised in the lease for the purpose of inspecting the mines.

14. Returns :

The lessee shall :-

- (a) submit a return in form 'MMPT' by the 7th of every month to the Director and also to other officer(s) specified in that form giving the total quantity of minor mineral(s) raised and dispatched from the leased area in the preceding calendar month and its value;
- (b) also furnish a statement giving information in Form 'MMP2' by the 15th April every year to the Director and to other Officer(s), specified in that form regarding quantity and value of minor mineral(s) obtained during last financial year, average number of regular labourers employed (men and women separately) number of accidents, compensation paid and number of days worked separately.

15. To strengthen and support the mines:

The lessee shall strengthen and support to the satisfaction of the Railway Administration or the State Government, as the case may be any part of the mine which in its opinion requires such, strengthening or support for the safety of any railway, bridge, national highway, reservoirs, canal, road or any other public work or building.

16. Notice for use of explosives, etc. :

The lessee shall immediately give notice in writing in Form 'IMSEI' to the following:



For MSK "JV"

Authorized Signatory

Mala Kumar

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Manoj Lal

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1. The Controller General, Indian Bureau of mines, Government of India, Nagpur;
2. The Chief Inspector to Mines, Govt. of India, Dhanbad;
3. The Director, Mines Safety, Govt. of India, Ghaziabad;
4. The Regional Controller of Mines, Indian Bureau of mines, Dehradun;
5. The Director Mines & Geology, Haryana;
6. The District Magistrate of the District concerned; and
7. The Assistant Mining Engineer/Mining Officer of the District concerned as soon as:

- (a) The working in the mines extend below superjacent ground; or
- (b) The depth of any open cast excavation measured from its highest to the lowest point reaches six meters; or
- (c) The number of persons employed on any day is more than 50;
or
- (d) Any explosives are used.

17. Maintenance of Sanitary conditions:

The Lessee shall maintain sanitary conditions in the area held by him under the lease.

18. To pay compensation for damage and indemnify the Government:

The lessee shall make and pay such reasonable satisfaction and compensation for all damage, injury or disturbance which may be done by him in exercise of the powers granted by the lease and shall indemnify the Government against all claims which may be made by third parties in respect of such damage, injury or disturbance.

19. Application of all Acts, Rules and Regulations to this lease :

The lessee shall abide by the provisions of Mines Act, 1952, Inter-state Migrant Workmen (Regulation and Employment and conditions of service) Act, 1979 and the rules and regulations framed there under and also the provisions of other labour laws both Central and State as are applicable to the workmen engaged in the mines and quarries relating to the provisions of drinking water, rest shelters, dwelling houses, latrines and first-aid and



[Signature]
Director General
Mines & Geology
Haryana

For MSK "JV"

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medical facilities in particular and other safety and welfare provisions in general, to the satisfaction of the competent authorities under the aforesaid Acts, Rules and Regulations and also to the satisfaction of the District Magistrate concerned. In case of non compliance of any of the provisions of the enactments as aforesaid, Director may terminate the mining lease by giving one month's notice with forfeiture of security deposited

Provided that the lessee shall carry out mining operations in accordance with all other provisions as applicable for undertaking mining including the provisions of Forest (Conservation) Act, 1980 and Environment (Protection) Act, 1986 and the rules made thereunder.

20. To report accident:

The lessee shall without delay report to the Deputy Commissioner of the district concerned and the Director or any other officer authorised by him, any accident which may occur at or in the leased area.

21. Delivery of possession of land and mines on the surrender or sooner determination of the lease:

At the end or sooner determination or surrender of the lease the Lessee shall deliver up the said lands and all mines (if any dug there) in a proper and workable state, save in respect of any working as to which the Government might have sanctioned abandonment.

22. To provide electronic weighing machine :

The lessee shall provide and at all times keep at or near the pit-head at which the said mineral shall be brought to bank a properly constructed and efficient electronic weighing machine and shall weigh or caused to be weighed thereon all the said minor minerals from time to time brought to bank, sold, exported and converted products, and shall at the close of each day cause the total weights, ascertained by such means of the said minor minerals, ores, products, raised, sold, exported and converted during the previous twenty four hours to be entered in the aforesaid books of accounts. The lessee shall permit the Government at all times during the said term to employ any persons to be present at the weighing of the said minor minerals, as aforesaid and to keep accounts thereof and to check the accounts kept by the lessee. The lessee shall give 15 days previous notice in writing to the Officer-in-Charge, Bhiwani Mines of every such measuring or weighing in order that he or some officer on his behalf may be present thereat.



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Director General
Mines & Geology
Haryana

For MSK "JV"

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[Signature] Manoj Lal

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23. To secure pits shafts not fill them up

The lessee shall well and properly secure pits and shafts and will not without permission in writing, willfully close, fill up or close any mine or shaft.

24. Not to enter upon or to commence operations in the reserved or protected Forest:

The lessee shall not enter upon or commence any mining operations in any reserved or protected forest comprised in the leased area except after previously obtaining permission in writing of the Chief Conservator of Forest, Haryana.

25. To respect water rights and not injure adjoining property:

The lessee shall not injure or cause to deteriorate any source of water, power or water-supply and shall not in any other way render any spring or stream or water unfit to be used or to do anything to injure adjoining land, villages or houses.

26. Stocks lying at the end of the lease:

(a) The lessee on expiry of the lease period (successful completion of the lease) shall remove already extracted all of the mineral from the premises of the quarry within a period of seven days. In case any quantity of the already extracted mineral, in the said land is left undisposed off and is not removed within seven days from the date of expiry of the period of lease the same shall be deemed to be the property of the Government who may dispose it off in any manner it may like without pay anything thereof to the lessee.

(b) The lessee on the termination or sooner determination of the lease shall not remove extracted mineral from the premises of the leased areas. All extracted minerals in the said lands left over un-disposed after the termination or determination of lease shall be deemed to be property of the Government who may dispose it off in any manner it may like without pay anything thereof to the lessee.



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Director General
Forest & Geology
Punjab

For MSK JV

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27. Payment of taxes

The lessee shall duly and regularly pay to the appropriate authority all taxes, cesses and local dues in respect of the leased area, said minor minerals or the working of the mines.

28. Payment of additional amount for reclamation/ restoration:

The lessee shall also deposit/pay additional amount equal to 10% of the amount of royalty/dead rent along with the payment of royalty or dead rent, whichever is more, by the 7th of every month, in a joint account to be operated with the Assistant Mining Engineer/Mining Officer concerned to ensure the compliance of the Reclamation & Restoration works. This additional amount shall be refunded after satisfactory Reclamation/ Restoration of the area after mining in accordance with the Mine Closure Plan.

Provided that in case the lessee fails to reclaim/ restore the area as per mining plan to the satisfactions of the State Government, the amount deposited in the joint account shall be forfeited and used for the restoration of the area by the department.

Provided further that in case no rehabilitation position of the mine comes during the tenure of the mining lease, the amount so deposited shall be kept by the State Government in the mining area development fund, for future use as and when the mine reaches to a stage requiring restoration and rehabilitation.

29. Assign sublet or transfer of the lease:

The lessee shall not assign, sublet or transfer the lease to any person without obtaining prior permission in writing from the Government.

30. Fencing of working place:

If a working place is found to be unsafe all persons shall be withdrawn by the lessee immediately from the dangerous area and all access to such working place except for the purpose of removing the danger or saving life shall be prevented by securely fencing the full width of all entrances to the place, at his own cost.



[Signature]
Director General
Mining & Geology
Haryana

For MSK "JV"

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Authorized Signatory

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31. Fencing of excavation after termination or sooner determination of the lease :

The lessee on termination or sooner determination of the lease, shall at his own cost, suitably fence the excavations for safety as instructed by the Director of Mines & Geology, Haryana, or the Assistant Mining Engineer/ Assistant Geologist/ Mining Office concerned.

32. Felling of trees:

The lessee shall not fell or cut any tree, standing on the land wherein the quarry is located without obtaining prior permission in writing from the Collector of the District concerned or Chief Conservator of Forests, Haryana, in respect of Forest areas, as the case may be and paying its price fixed by him.

33. Security deposit shall carry no interest:

The security deposited by the lessee shall not carry any interest.

34. State Government not responsible for loss to lessee:

The Government shall not be responsible for any kind of loss to the lessee.

Part-IV

Rights of the State Government

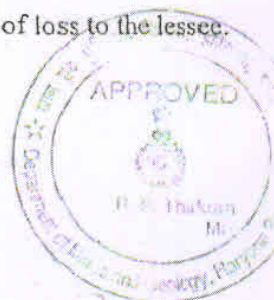
1. Suspension or termination of the lease:

The Director or an officer authorised in this behalf shall have the right to suspend or prematurely terminate the lease.

(a) If the dead rent or royalty or surface rent or any other amount due to the Government are not paid,

(b) if any of the terms and conditions of the lease deed or conditions of grant or permission to undertake mining by any other statutory authority or competent authority is violated;

(c) if any of the provisions of these rules and other laws both Central and State as are applicable to mines and minerals, are not complied with:




Director General
Mines & Geology
Haryana

For MSK "JV"

Authorized Signatory


Saroj
Veeram
Sunita


Rahul

Provided that no orders of suspension or termination of the lease shall be passed by the Director or an officer authorised by him without giving reasonable opportunity to show cause and following the procedure prescribed in the Haryana Minor Mineral Concession, Stocking and Transportation of Mineral and Prevention of Illegal Mining Rules 2012.

Provided further that the authorised officer may also at any time after issuance of the notice for default on account of non payment of dues, enter upon the said premises and detain all or any of the mineral(s) or movable property therein and may carry away, detain or order the sale of the property so detained, or so much of it as will suffice for the satisfaction of the rent or royalty or both dues and all costs and expenses occasioned by the non-payment thereof and shall give proper receipt of the articles carried away.

2. **Determination of lease in public interest:**

The Government may by giving 'six months' prior notice in writing determine the lease if the Government consider that the minor mineral under the lease is required for establishing an Industry beneficial to the public:

Provided that in the State of National Emergency or war, the lease may be determined without giving such notice.

3. **Right of pre-emption :**

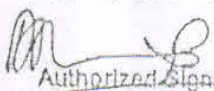
The government shall from time to time and at all times during the terms of lease have the right (to be exercised by notice in writing to the lessee) of pre-emption of the said mineral(s) and all products thereof lying in or upon the said lands hereby demised or elsewhere under the control of the lessee and the lessee shall deliver all minerals or products thereof to the Govt. at current market rates in such quantities and in the manner at the place specified in the notice exercising the said right.

4. **Penalty for not allowing entry to officers:**

If the lessee or his transferee or assignee does not allow any entry or inspection under clause (9) of part-III, the Director may cancel the lease and forfeit in whole or in part the security deposit paid by the lessee under sub rule (iii) of rule 8 or rule 15, as the case may be of the Haryana Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012.



For MSK "JV"

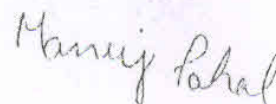

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5. Settlement of Rent and Compensation payable to third parties thereof :

In case the occupier(s) or owner(s) of the said land refuses his/ their consent to the exercise of the rights and powers reserved to the Government and demised to the lessee under these presents, the lessee shall report the matter to the Assistant Mining Engineer/ Assistant Geologist/ Mining Officer who shall request the Collector of the district concerned to direct the occupier(s) or owner(s) to allow the lessee to enter the said lands and to carry out such operations as may be necessary for working the mine, on payment in advance of such rent or compensation to the occupier or owner by the lessee, as may be fixed by the Collector as per the provisions of rules 64 & 65 of the rules.

6. Suspension of mining operations:

The Director may order to suspend the mining operations after serving a notice to the lessee, in case, the following violations are noticed:-

- (a) unsafe and unscientific mining;
- (b) non operations of weighbridge;
- (c) non providing of safety appliances to the workers;
- (d) non payment of compensation to the surface owners;
- (e) non submissions of monthly returns;

In case of violations of the aforesaid conditions and also any other terms and conditions of the agreement deed and the provisions of the rules, the Director may give a notice to the lessee to remedy the violations within a period of 15 days from the date of issue of the notice. In case, the violations pointed out through notice, are not remedied within the stipulated period of 15 days, the Director may after affording an opportunity of being heard to the lessee, order the suspension of the mining operations till such time, the defaults/ defected are removed by the lessee within the time frame (within a maximum period of six months) granted by the Director. During the period of suspension of mining operations, the lessee will be allowed only to undertake rectification work for removal of the defects and shall not dispose off the mineral. During the suspension period, the lessee shall be under the obligation to deposit the amount of the dead rent on the due dates.



[Signature]
Joint Secretary
National Environment Conservation Directorate
Gurugram

"For MSK - JV"

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Authorized Signatory

Mala Kumar

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Sumit

Mammy Lalal

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[Signature]
Joint Secretary
National Environment Conservation Directorate
Gurugram

On satisfactory removal of the defects, the Director may revoke the suspension orders with or without any modification. Non removal of the defects/ defaults during the suspension period and within the time allowed by the Director, shall lead to premature termination of lease.

Part-V

General

1 Cancellation:

The lease shall be liable to be cancelled by the Director if the lessee cease to work the mine for a continued period of six months without obtaining written sanction of the Government.

2. Notices :

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

3. Recovery of government dues as arrears of land revenue:

Without prejudice to any other mode of recovery authorised by any provision of this lease or by any law, all amounts, falling due hereunder against the lessee may be recovered as arrears of land revenue under the law in force for such recovery.

4. Forfeiture of property left more than three months after expiry or determination of lease :



Director General
Mines & Geology
Gujarat

For MSK "JV"

Authorized Signatory

Mala Kumar

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The lessee should remove his property lying on the said lands within three months after the expiry or sooner determination of the lease or after the date from which any surrender by the lessee of the said lands under rule 27 of the Haryana Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012 becomes effective, as the case may be, the property left after the aforesaid period of three months shall become the property of the government and may be sold or disposed of in such manner as the Government shall deem fit without liability to pay any compensation therefore, to the lessee.

5. Security and forfeiture thereof :

(a) the Government may forfeit the whole or any part of the amount deposited as 'Security' under this lease, in case the lessee commits a breach(s) of any covenants to be performed by the lessee under this lease.

(b) Whenever the said security deposit or any part thereof or any further sum hereafter deposited with the Government in replenishment thereof is forfeited under sub clause (a) or applied by the Government under this lease (which the Government is hereby authorised to do) the lessee shall immediately deposit with the inappropriate part thereof to bring the amount in deposit with the Government up to the requisite amount of security at that point of time of lease.

(c) The rights conferred to the Government by clause (a) shall be without prejudice to the rights conferred on the State Government by any other provision of this lease or by any law.

(d) On such date as the Government may elect within twelve calendar months after the determination of this lease or any renewal thereof, the amount of security deposit paid in respect of this lease and then remaining in deposit with the Government and not required to be applied to any of the purposes mentioned in this lease shall be refunded to the lessee. No interest shall run on the security deposit.

6. Survey and demarcation of the area:

When a mining lease is granted by the Government arrangement shall be made, if necessary, at the expense of the lessee, for the survey and demarcation of the area granted under the lease. The lessee shall have to bear actual expenses of the staff deputed for the work. Actual expenses will include travelling allowances, daily allowances and salary of staff plus 10 percent as instrument charges.



[Signature]
Director General
Minerals & Geology
Haryana

For MSK "JV"

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Authorized Signatory

[Signature] Mala Kumar
[Signature] Suresh
[Signature] Veeram
[Signature] Sunita

[Signature] Manoj Lal
[Signature]

7. Surrender of a mining lease by the lessee:

The Government may accept the request of a lease holder for surrender of a lease or part thereof in cases where it is established that it has not been found feasible to operate the lease grant for whatsoever reasons subject to the condition that the lessee:

- (i) has been regular in furnishing the production returns as required in terms of the lease agreement;
- (ii) has been taking the requisite steps for the progressive mine closure plan as per the conditions of the lease grant;
- (iii) is not in default of payment of any dues of the Government as on the date of making such application and undertakes to pay all such dues till the date of expiry of the notice period either in cash in advance or by way of adjustment of the security or both.

Provided that in case the lessee makes an application for surrender of part area of the lease, it shall not result in any prorated reduction of the dead rent and the rate of dead rent payable and applicable for the entire area at the time of such application shall remain intact.

8. Penalty for repeated breaches:

In case of repeated breaches of covenants and agreements by the lessee for which notice has been given by the State Government in accordance with Sub-rule (1) of Rule 73 and/or sub rule(1) of rule 74 of the Haryana Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012 on earlier occasions, the State Government without giving any further notice, may impose such penalty not exceeding twice the amount of annual dead rent specified in clause 3 of part-III of this form.

9. Obtaining sale tax number:

The lessee shall get himself registered with the commercial Taxes Department of Haryana State and shall obtain the Sales Tax number.



Director, Haryana Minor Mineral Concession, Stocking & Transportation of Minerals and Prevention of Illegal Mining Rules, 2012

For MSK "JV"

Authorized Signatory

Mala Kumar

Suresh

Veeram

Sanyal

Manoj Patel

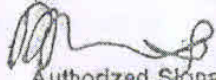
Manoj Patel

10. Overriding effect:

Unless otherwise specifically provided, it is agreed that this deed shall be governed by the provisions of the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957) and the rules made thereunder. The provisions of the Act and the rules shall prevail over the terms and conditions of the agreement.

IN WITNESS WHEREOF: - These presents have been executed in the manner hereunder appearing the day and year first above written.

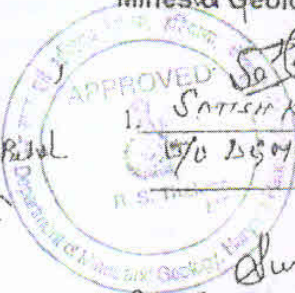
For MSK "JV"


Authorized Signatory
Signature of the Lessee


For and on behalf of the Government
Director General of Haryana
Mines & Geology, Haryana

Witnesses:-

1. Jasveen
Jasveen Patel, 40 Eln Jagdish Patel
M.C. Colony, Ward 2
Chakri Dhal, Bhiwani
Haryana
2. Pradeep Kumar
Pradeep Kumar s/o Sh. Pushrat Singh
H.No. 3, Opp. 11/32 Jagdish Patel
U.D.-24


1. SATISH KUMAR, Asstt.
G.O. 15/04/15 Haryana.
2. SUNITA, C.F.R.A.
G.O. 15/04/15 Haryana.

1) Anala Kumar 2) Saroj 3) Veerham
4) Sumit 5) Manoj Lal 4) (Signature)
(Signature of sureties)

Witnesses:-

1. Jasveen 2. Pradeep Kumar

The Contractor & Sureties have signed documents
in my presence.

RKSharma



Speed Post

No. J-11015/74/2014-IA.II (M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Aliganj, Jor Bagh Road
New Delhi-110 003

Dated: 11th June, 2015

To,

M/s MSK (JV)
S-571 Greater Kailash II
New Delhi-110 048

Tel. 011-29220374; Fax: 011-29220377
Email: msk@mkeindia.com

Sub.: Mining of Stone in the Mine of "Atela Kalan" with proposed production capacity of 6.0 million TPA of Stone (ROM) by M/s. MSK (JV), located at village - Atela kalan, Tehsil - Charkhi Dadri, District- Bhiwani, Haryana (54ha)-Environmental Clearance regarding.

Reference: Online Application IA/HR/MIN/22915/2014

Sir,

This has reference to your online application and subsequent letter dated 14.01.2015 for the above mentioned proposal for Mining of Stone (Minor Mineral) with proposed production capacity of 6.0 million TPA (ROM) of Stone. The mine is located at village - Atela kalan, Tehsil - Charkhi Dadri, District- Bhiwani, Haryana in MLA of 54ha. The Latitudes & Longitudes of the site are 28°34'10.94" N to 28°34'42.74" N and 76°5'38.24" E to 76°6'13.90" E respectively on Toposheet No. 53D/2, 53D/3.

2. The Ministry had prescribed TOR on 11.06.2014. The Proponent after conducting Public Hearing on 10.10.2014 submitted the EIA/EMP report online for seeking environmental clearance. The proposal was appraised before the Expert Appraisal Committee in its Meeting held during December 10-11, 2014 wherein the EAC sought information/clarification. Based on the information submitted by the Proponent, the proposal was reconsidered by the EAC in its meeting held during March 16-18, 2015 wherein the Committee recommended the Proposal for environmental clearance for Mining of Stone (Minor Mineral) with proposed production capacity of 6.0 million TPA (ROM) of Stone.

3. The total mining lease area is 54.0ha which is Government Land. Project Proponent reported that there is no forest land involved. LOI was issued by the Department of Mines & Geology, Haryana vide Memo No. DMG/HY/ML/Atela Kalan/2013/155 dated 03.01.2014, Chandigarh. Mining Plan & Progressive Mine Closure Plan has been approved by Department of Mines & Geology, State Govt. of Haryana vide letter No. DMG/HY/Atela Kalan/MP/4154, dated 15.09.2014. Project Proponent informed that the Department of Mines and Geology, Govt. of Haryana,



8. Total cost of the Project is Rs. 30 Crores. The Project Proponent has earmarked Rs. 75 Lakhs/- towards Environmental Protection Measures & Rs. 12.0 Lakhs/annum towards recurring expenses. Proponent informed that Rs. 25.00 Lakh/- has been earmarked towards CSR activities. Project Proponent reported that there is a Court case in the Hon'ble High Court Punjab & Haryana in the matter of CWP No. 27700 of 2013-Rajbir Singh v/s State and others. The petitioner had challenged the conditions of the auction notice and the rules relating to Payment of Rent and Compensation to the land owners. The Hon'ble High Court did not restrain the auction proceedings and held that the auctions may be held but it has also directed its orders dated 17.12.2013 that the same shall be subject to final outcome of above said CWP. Accordingly, the acceptance /Lol was issued to the outcome of said case. The said case is still pending before Hon'ble Punjab and Haryana High Court for adjudication.

9. The Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and hereby accords the environmental clearance under the provisions thereof to the above mentioned proposal of **M/s MSK (JV) for Mining of Stone (Minor Mineral) with proposed production capacity of 6.0 million TPA (ROM) of Stone in the mine lease area of 54ha, located at village-Atela kalan, Tehsil - Charkhi Dadri, District- Bhiwani, Haryana** subject to compliance of the followings terms and conditions and environmental safeguards mentioned below:-

A. Specific conditions

- (i) Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Haryana and any other Court of Law, if any, as may be applicable to this project.
- (ii) Environmental clearance is subject to obtaining clearance, if any, under the Wildlife (Protection) Act, 1972 from the Competent Authority, as may be applicable to this project.
- (iii) The environmental clearance is valid for 12 years as the life of mine is 12 years.
- (iv) No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.
- (v) The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Haryana and effectively implement all the conditions stipulated therein.
- (vi) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented.



- (xix) The illumination and sound at night at project site, disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponent must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
- (xx) Where ever blasting is undertaken as part of mining activity, the Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings, to evaluate the zone of influence and impact of blasting on the neighbourhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/ surface miners etc. should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the competent authority.
- (xxi) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.
- (xxii) Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The Project Proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
- (xxiii) Likewise, Alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.
- (xxiv) CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial Turn-over, Socio Economic Development of the neighborhood Habitats could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report



vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its Regional Office located at Chandigarh on six monthly basis.

- (viii) Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.
- (ix) Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.
- (x) Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- (xi) Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM_{10} and $PM_{2.5}$ such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (xii) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest & Climate Change, its Regional Office, Chandigarh, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- (xiii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year - pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest



- (xxii) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xxiii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Chandigarh.
- (xxiv) The project authorities should inform to the Regional Office located at Chandigarh regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xxv) The Regional Office of this Ministry located at Chandigarh shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- (xxvi) The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, its Regional Office, Chandigarh, Central Pollution Control Board and State Pollution Control Board.
- (xxvii) The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Chandigarh, Central Pollution Control Board and State Pollution Control Board.
- (xxviii) A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.
- (xxix) State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
- (xxx) The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest & Climate Change at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located Chandigarh.

10. The Ministry or any other Competent Authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may





**HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA**

Website - www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com

Tele Fax No. - 0172-2577870 73

No. HSPCB/Consent/ : 2811915BHICTOHWM2319640

Dated: 04/11/2015

To,

M/s :MSK JV
Atela Kalan, Charkhi Dadri,
BHIWANI

**Subject: Grant of consent for emission of Air under section 21/22 of the Air
(Prevention & Control of Pollution) Act, 1981 from 01/04/2016 to
30/09/2020**

Please refer to your consent application received on dated 2015-10-03 in Regional Officer,
Jind on the subject cited above.

With reference to your above application for consent for the emission/ continuation of
emission of S.P.M. air pollutions into atmosphere under Air (Prevention & Control of Pollution) Act,
1981 hereinafter referred as the Act.

M/s MSK JV are authorized by the Haryana State Pollution Control Board to discharge their air
pollution being emitted out of their factory premises in accordance with the condition as mentioned
below:-

1. The applicants shall maintain good house keeping both within factory and in the premises. All
hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels,
if specified by State Board should be met strictly.
2. Two or more ducts with different nature of exhaust gases should neither be intermixed nor to be
through a common chimney.
3. Adequate facilities should be provided for sampling viz sampling holes at specified locations
and dimension. The platform of specified size and strengthful arrangements electric connection
also be provided.
4. The applicant/company shall comply with and carry out directive/orders issued by the Board in
this consent order at all subsequent times without negligence of his /its part. The
applicant/company shall be liable for such legal action against him as per provision of the
law/act in case of violation of any order/directives. Issued at any time and or non compliance of
the terms and conditions of his consent order.
5. The disturbed condition in any of plant/plants of the factory which is likely to result in increased
emission or result in violation of emission standards shall be forthwith reported to this Board
under intimation to the Member Secretary, Haryana State Pollution Control Board.
6. The toxic chemicals materials should be handled with due safety. The storage of toxic
chemicals should be such that in case of emergency the chemicals could be transferred to other
empty tank automatically and which should be followed by an approved air pollution control
equipment designed for worst conditions.

A green belt (having sufficient tall and dense tree) around the factory should be provided.



23. (a) The industry shall discharge all the gases through a stack of minimum height.
 (b) The height of stack shall conform to the following criteria:
 (i) $H = 14.Q^{0.3}$ Where sulphur-dioxide is emitted.
 Q = Sulphur dioxide emission as Kg/hr.
 (ii) $H = 74.Q^{0.27}$ where particulate matter is emitted.
 Q = particulate matter emission as tonne/hr. If by using the formula given above the stack height arrived is more than 9 m then this higher stack should be used.
 (iii) The minimum stack height should be 30 Mts.
24. Nothing in this consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibility, liabilities or penalties to which the applicant is or may be subject.
25. The industry shall maintain the following record to the satisfaction of the Board.
 1. The industries shall install separate energy meter and maintain log books for running of all air pollution control devices or pumps/motors used for running of the same.
 2. Register showing the results of various tests conducted by industry for monitoring of stack emission and ambient air.
26. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
27. The consent being issued by the Board as above doesn't imply that unit performance conforms to law as required. The consent is being issued provisionally only with a view to accommodate the unit to provide it an opportunity to modify its operation immediately so as bring them in conformity with the law of the land.
28. The industry shall provide non-leachate storage facilities for proper disposal of Hazardous wastes.
29. The industry shall provide acoustic chambers on DG sets to control noise pollution and ensure noise level within the permissible limit.
30. The industry shall submit on site/off site emergency plan, if required.
31. The industry shall submit A/R within 3 months in case of 17 categories and once in 6 months, other categories L & M and keep all the parameters within limit.
32. The industry shall comply the public liability insurance Rule, 1991 as amended to date.
33. The industry shall submit Environmental Audit report once in a year.
34. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
35. The industry shall install ambient air station in case of 17 & other categories large & medium.
36. The industry shall obtain environmental clearance, if applicable as per MOEF notification.
37. The industry shall inform to HO/RO office immediately by FAX in case of failure of APCM.
38. In case of by-passing the emissions, the consent shall be deemed revoked.
39. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSECB from time to time.

Specific Conditions :

Other Conditions :

1. unit will comply with the conditions of the Environmental Clearance, and will submit the return as per schedule.
2. unit will comply with the EMP plan and will submit the compliance report



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AIR & I



HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA

Website - www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com

Tele Fax No. - 0172-2577870-73

No. HSPCB/Consent/ : 2811915BHICTO2319640

Dated:04/11/2015

To

M/s:MSK JV
Atela Kalan, Charkhi Dadri,
BHIWANI

Subject: Grant of Consent to operate for discharge of effluent under section
23/24 of the Water (Prevention & Control of Pollution) Act, 1974;
from 01/04/2016 - 30/09/2020.

Please refer to your consent application received on dated 2015-10-03 in Regional Officer,
Jind on the subject cited above.

With reference to your above application for consent for the discharge of domestic effluent
and trade effluent under Water (Prevention & Control of Pollution) Act, 1974 hereinafter referred as
the Act M/s MSK JV is hereby authorized by the Haryana State Pollution Control Board, to
discharge their effluent arising out of their premises in accordance with the terms and conditions as
mentioned below:-

1. The daily quantity of domestic effluent from the factory shall not exceed 1 KLD
2. The daily quantity of the industrial effluent (Process, floor & equipment wash, cooling and bleed water) from the factory shall not exceed 0 KLD
3. The industry has been assessed for the purpose of Consent to operate fee with investment cost (land, building, plant and machinery) of Rs. 2.2445E8 Lakh. In case the investment cost varies as per the annual report for the years duly audited by the Chartered Accountant, the difference of Consent to operate fee, if any, arises, the industry shall pay the same amount within one month of the receipt of notice from the Board in this regard.
4. The consent to operate shall be valid for the period from 01/04/2016 - 30/09/2020
5. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
6. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent.
In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
7. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.
8. The industry shall not discharge any altered quantity/quality of the trade/domestic effluent without prior permission of the Board.



Signature and Stamp of Regional Officer

9. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.
10. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
11. In case the industrial unit uses the Municipal/HUDA/Industrial Estate Sewerage system for disposal of effluent for the final disposal they will submit the sewerage connection certificate.
12. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
13. The industry will plant minimum three varieties (Eucalyptus, Su Babul or any suitable variety) of trees in the vacant area.
14. The consent to operate under Air (Prevention & Control of Pollution) Act, 1981 should be obtained.
15. The industry shall obtain Authorization under Hazardous Waste (Management handling and transbonding movement) Rules, 2008 as amended to date.
16. The industry shall install separate Energy Meter for ETP and also maintain log book for energy and chemical consumption.
17. The industry shall obtain permission from Irrigation Department for discharging effluent into any drain/water bodies.
18. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
19. The industry shall provide non-leachate storage facilities for storage of Hazardous Waste or dispose off same in the common facilities & will adhere to the norms laid down as per the amended notification under HWTM Rules, 2008.
20. The industry shall submit A/R once in 3 months in case of 17 categories and other categories. The L&M shall submit A/R once in 6 months.
21. The industry shall comply the Public Liability Insurance Rules, 1991, as amended to date.
22. The industry shall submit Environmental Audit /Report once in a year.
23. The industry shall obtain Environmental Clearance, if applicable as per MOEF Notification.
24. The industry shall inform to HO/RO office immediately by FAX in case of failure of ETP.
25. In case of bye passing the effluent the consent to operate shall be deemed revoke.
26. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

Other Conditions :

1. 1. unit will comply with the conditions of the Environmental Clearance , and will submit the return as per schedule.
2. unit will comply with the EMP plan and will submit the compliance report



Regional Officer, HQ
For and be'half of chairman
Haryana State Pollution Control Board,
Panchkula.

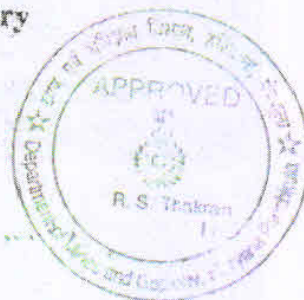
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Handwritten signature in blue ink.



MSK - JV
[Signature]
Authorised Signatory



[Handwritten signature]
Authorised Signatory

आयकर विभाग

INCOME TAX DEPARTMENT

MAHESH PAHEL

OMI PARKASH

15/04/1980

Permanent Account Number

CBHPP3840D

(Signature)

Signature



भारत सरकार

GOVT. OF INDIA

23702012

23702012



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स्थायी सेवा संख्या /PERMANENT ACCOUNT NUMBER
AAEPN1223C

नाम /NAME
HARDEEP NANDAL

पिता का नाम /FATHER'S NAME
SUMER SINGH NANDAL

जन्म तिथि /DATE OF BIRTH
01-05-1964

हस्ताक्षर /SIGNATURE
Prandit

आयकर अधिकारी (कंप्यूटर संयंत्र)
Commissioner of Income-tax (Computer Operations)



इस कार्ड के लो / गिन जाने पर पृष्ठा जारी करने
वाले प्राधिकारी को सूचित / सूचित कर दें
आयकर अधिकारी (कंप्यूटर संयंत्र),
प्लॉट 11-11, एन ब्लॉक II,
विवेकानंद मार्ग,
एन डिली-110 066.

In case this card is lost/ found, kindly inform/return to
the issuing authority :
Commissioner of Income-tax (Computer Operations),
Level III, East Block II,
Vivekananda Marg, R.K. Poram,
New Delhi - 110 066.



Handwritten signature

कुरुक्षेत्र - विश्वविद्यालयः

मास्टर ऑफ साइंस

बदमात्र प्रमाणीक्रियते यत् किरीट कुमार आचार्य नामा/नाम्नी
श्री प्रमोद कुमार आचार्य नाम्नः पुत्रः/पुत्री १९७८ तमे वर्षे
गवर्नमेंट कॉलेज, नारनौल तः
अस्य विश्वविद्यालयस्य परीक्षा प्रथम श्रेण्यां समुत्तीर्य
मास्टर ऑफ साइंस (भूगर्भ विज्ञान) पदवीं प्राप्तवान्/प्राप्तवती-इति ।

Kurukshetra University

Master of Science

This is to certify that Kireet Kumar Acharya,
son/daughter of Shri Pramod Kumar Acharya and
of the Govt. College, Narnaul has
obtained the degree of Master of Science (Geology)
in this University having passed the examination for the said
degree held in April 1978 in the First Division.

विश्वविद्यालय-पुनरांकितं प्रमाणपत्रम्
Given under the seal of the University

Schroder
कुल-सचिवः
Registrar



Vikas Nishu
कुलपतिः
Vice-Chancellor

[Signature]
कुलसचिवः
Chancellor

मुद्रांकितं, तिथिः जनवरी १, १९७८
Kurunakshetra, dated January 1, 1978





खनन योजना तैयार करने हेतु
योग्य व्यक्ति के रूप में
मान्यता का प्रमाणपत्र

(खनिज रियायत नियमावली 1960 के नियम 22(सी) के अंतर्गत)

श्री किरीट आचार्य
पत्न श्री एमोद राय आचार्य

निवासी 70/30 पटेल मार्ग, मानसरोवर, जयपुर
द्वारा अपनी योग्यताओं और अनुभव का संतोषप्रद प्रमाण प्रस्तुत करो के फलस्वरूप
खनिज रियायत नियमावली, 1960 के नियम 22(सी) के अंतर्गत उन्हें एतद्वारा खनन
योजना तैयार करने हेतु योग्य व्यक्ति के रूप में मान्यता प्रदान की जाती है।



उनका पंजीयन क्रमांक

ROP/NJM/230/2003/A

है।

यह मान्यता दिनांक 22 जनवरी 2013 को समाप्त

होने वाली दस वर्षों की अवधि के लिए वैध है।

स्थान : अजमेर

दिनांक : 23-01-2003

L. J. Min
23/1/03

देशीय खान निबंधक
भारतीय खान ब्यूरो

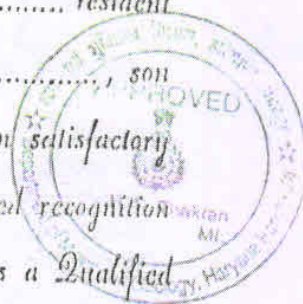




CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON TO PREPARE MINING PLANS

(Under Rule 22 (c) of Mineral Concession Rules 1960)

Shri KUREET KUMAR AGHARYA resident
of Bhilwara, Rajasthan
of Shri. Premod Kumar Acharya , having given satisfactory
evidence of his qualifications and experience is hereby granted recognition
under Rule 22 (c) of the Mineral Concession Rules, 1960 as a Qualified
Person to prepare Mining Plans.



His registration number is

RQP/TS-UNIP/063/88/A

This recognition is valid for a period of two years
ending 23-10-1991

नवीनीकृत
Renewed up to 23-10-93

K. S. Wani
27.9.91
क्षेत्रीय खान नियंत्रक
भारतीय खान बोर्ड

Place: Nagpur
Date : 24-10-1989

(H.N. WANARE)
Regional Controller of Mines
Indian Bureau of Mines
Nagpur





दफ्तर पोस्ट

Telephone 0120 2711597
(office) 0120 2709483
Fax 0120 271159
website: www.dgmsindia.in
email: dir.gzr@dgms.gov.in

भारत सरकार / Government of India
श्रम एवं रोजगार मंत्रालय / Ministry of Labour & Employment
स्वातंत्र्य सुरक्षा महाविदेशालय / Directorate General of Mines Safety
गजियाबाद क्षेत्र गजियाबाद / Ghaziabad Region, Ghaziabad

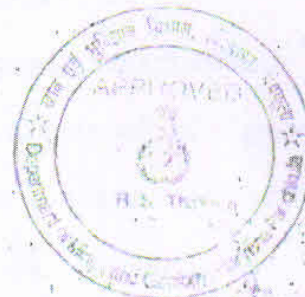
कमरा नंबर 101, 102, प्रथम तल छल्लाक - बी
बी, जी, डी. कॉम्प्लेक्स II, हापुड रोड गजियाबाद-201002

संख्या: S29024/GR/HAR/Bhlwani/153 /Per

दिनांक /2015

प्रेषक
एम. सुरक्षा
स्वातंत्र्य सुरक्षा महाविदेशालय,
गजियाबाद क्षेत्र, गजियाबाद।

सेवा में,
श्री अशोक कुमार, नामांकित रचना
मैसर्स एमएसएल - जेपी (MSK-IV)
अटला कलान स्टोन माइन
ग्राम अटला कलान पो अटला बुर्द
तहसील चरखी दाहरी,
जिला श्रीवांगी (हरीयाणा)



विषय धातुका स्वातंत्र्य विनियम, 1961 के विनियम 106(2)(बी) के अंतर्गत मैसर्स एमएसएल - जेपी
की अटला कलान स्टोन माइन में डीप होल ड्रिलिंग और ब्लॉस्टिंग के साथ भारी रॉक के प्रयोग की
अनुमति।

महोदय

कृपया उपरोक्त विषय पर अपने प्रबंधक के दिनांक 01.07.15 तथा 06.07.15 के पत्रों
MSK/DGMS/15-16/11&12 का संदर्भ ले, और उसके साथ संलग्न दिनांक 23.06.15 का प्लान नं.
RKS/AKSM/MSK/BWN/SUR/01/24/15 का संदर्भ लें। आपके आदेशों में दिए गए तथ्यों के आलोक
में मामले पर विचार किया गया।

मुख्य स्वातंत्र्य निरीक्षक (स्वातंत्र्य सुरक्षा महाविदेशालय की तरफ से पदनामित) को धातुका स्वातंत्र्य
विनियम, 1961 के विनियम 106(2)(बी) के अंतर्गत दिए गए अधिकारों और मुख्य स्वातंत्र्य निरीक्षक
(स्वातंत्र्य सुरक्षा महाविदेशालय की तरफ से पदनामित) द्वारा स्वातंत्र्य अधिनियम, 1952 की धारा 6(1) के
अंतर्गत लूके दिए गए प्राधिकरण के तहत में मैसर्स एमएसएल - जेपी की हरीयाणा राज्य में शिवानी
जिले के चरखी दाहरी तहसील में अटला कलान गांव के पास में अवस्थित अटला कलान स्टोन
माइन में डीप होल ड्रिलिंग और ब्लॉस्टिंग के साथ भारी रॉक के प्रयोग की की अनुमति देता हूँ।

1.0 सामान्य:

इस संशर्त अनुमति में जहां भी अन्य रूप में प्रदान किया गया है उसके अतिरिक्त धातुका स्वातंत्र्य
विनियम, 1961 के सभी विनियमों का कठोरता से पालन किया जाएगा।



Authorized Signatory

3.0 Supervision :

- 3.1 A person possessing First Class Mine Manager's Certificate of competency under Regulation MMR, 1961 shall be appointed as the manager of the mine to look after HEMM operation. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine. Use of HEMM shall be suspended in the absence of manager with aforesaid qualification.
- 3.1 During every production shift, the opencast workings shall be placed under the charge of an Assistant Manager and during maintenance shift, the working shall be placed under the charge of a Foreman, who shall be responsible to see that all the regulations and orders made there under are strictly complied with. He shall also supervise transport and loading being done by the contractor.
- 3.2 The deep hole drilling and blasting shall be carried out under the personal supervision of the Assistant Manager. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.
- 3.3 Manager shall in particular –
- (a) make frequent inspections for evidence of slides or of material that may slide or roll from the high wall (including the face and sides) or spoil bank;
 - (b) not allow any person to work under overhanging ledges or where there is evidence of slides, until such danger has been removed;
 - (c) ensure that every person engaged in dressing operations on high walls/sides is provided with, and uses, a safety belt of a type approved by the Chief Inspector;
 - (d) ensure that all loose material is removed from high wall/side before persons are engaged there; and
 - (e) ensure that parapet walls along truck roads are properly maintained.

4.0 Maintenance of Machines:

- 4.1 If the engineer, mechanical foreman or other competent person making an inspection notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.
- 4.2 Any defect in machinery reported by its operator shall be promptly attended to.
- 4.3 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position 'OUT OF SERVICE DO NOT USE' and its use shall be prohibited until the unsafe condition has corrected.
- 4.4 All repairs to a machine shall be done at a location which will provide a safe place for the persons engaged on repairs.



4.11.3 A report of every inspection made under clause (4.11.2) shall be recorded in a bound paged book kept for the purpose, and shall be signed and dated by the person making the inspection.

4.11.4 Every machine in use shall be thoroughly inspected once at least in every 24 hours by a competent person. Any damaged or worn out parts shall be replaced immediately.

4.11.5 A report of every inspection made under clause (4.11.4) shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by person making the inspection.

4.12 *Shift examination of machinery and vehicle:*

4.12.1 At the commencement of every shift, the engineer or mechanic or foreman or other authorized competent persons shall personally inspect and test every machine and vehicle paying special attention to the following details:

- (a) that the brakes and the horn or other warning devices are in working order;
- (b) If the vehicle or machine is required to work after day light hours that the lights are in working order.

4.12.2 He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

4.12.3 He shall also maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

5.0 **Safety features of dumper, Excavator, dozer and drill (Cir 9/2008)**

5.1.1 **Dumper:**

5.1.1.1 The following safety feature shall be provided in dumper:

- (a) Mechanical steering locking to prevent untoward movement of steering wheel and tyre while work persons working below the cabin while engine is running.
- (b) Blind spot mirror apart from rear view mirror to enable operator to have clear visibility of blind spot in and around dumpers.
- (c) Mechanical type Anti collision device to avoid head to tail collision on haul road such as tail gate, bumper extension or any other strong device.
- (d) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable / wire are passed shall be fire resistant.
- (e) Seat belt for operator.



my

- (q) Fire resistant hydraulic hoses and wiring near hot zone.
- (r) Turbo charger guard.
- (s) Cabin for the operator

5.1.4 Dozers:

5.1.4.1 The following safety feature shall be provided in dozers:

- (a) Roll over protection.
- (b) Turbo charger guard.
- (c) Fire resistant hydraulic hoses and wiring near hot zone.
- (d) Seat belt.

5.1.5 General:

5.1.5.1 The approved type of audio visual alarm shall be provided in all equipments.

5.1.5.2 The approved type of fire suppression system shall be provided in all equipments.

5.1.5.3 The stability test of HEMM shall be carried out at least once in year and after every major over haul by an independent agency.

5.1.5.4 The crane and overhead crane shall be subject to proof load test and NDT test once in a year from a competent authority.

5.1.5.5 The pressure vessel receiver are subjected to hydraulic and NDT test and shall be carried out by a competent authority.

5.1.5.6 In case of any defect in equipment such as brake, steering and safety device the equipment shall be immediately taken out of use and a record shall be kept.

5.1.5.7 The code of practice for installation operation and maintenance of all equipment shall be prepared and implemented before putting the equipment to use in mine.

5.1.5.8 The safety feature recommended in equipment shall be a part of notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

5.1.5.9 The layout of the workshop shall be required as per DG's Circular No. 8 of 2003.

6.0 Precautions while Drilling:

6.1 The position of every deep hole to be drilled shall be distinctly marked by the mine foremen so as to be readily seen by the drillers.

6.2 No person shall be permitted to remain within a radius of 20 m or within 60 m on the same bench where charging of holes with explosives is being carried out.



7.1.2.6 A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.

7.1.2.7 A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.

7.1.2.8 A vehicle transporting explosives shall not be refueled except in emergencies and only when its engine is stopped and other precautions taken to prevent accidents.

7.1.2.9 No trailer shall be attached to a vehicle transporting explosives.

7.1.3 Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:

- (a) fire extinguishers are filled and in place;
- (b) the electric wiring is well insulated and firmly secured;
- (c) the chassis, engine and body are clean and free from surplus oil and grease;
- (d) the fuel tank and feed lines are not leaking; and
- (e) lights, brakes and steering mechanism are in good working order.

7.1.4 Report of every inspection made under clause (7.3) shall be signed and dated by competent person making the inspection.

7.1.5 All operations connected with transport of explosives shall be conducted under the personal supervision of a foreman solely placed in charge of blasting operations at the mine.

7.1.6 The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

8.0 Precaution during Firing:

8.1.1 Shots shall not be fired except during hours of day-light or until adequate artificial light is provided. All holes charged on any one day shall be fired on the same day.

8.1.2 As far as practicable, shot firing shall be carried out either between shifts or during the rest interval, or at the end of work for the day.

8.1.3 During the approach and progress of an electric storm, the following precautions shall be taken:

- (a) No explosive, particularly detonators, shall be handled;



Authorised Signatory

high voltage lines, unless current has been cut off and the line de-energized. / notice of this requirement shall be posted at the operator's position.

9.6 Electrical cables, if any, shall be laid in such a manner that they are not endangered either by falling rocks or by a mobile equipment.

9.7 Shovel bucket shall be pulled out of the bank as soon as it is full.

9.8 When not in operation, the bucket shall be pulled out of the bank as soon as it is full.

9.9 When being operated in soft or unstable ground, every shovel (and dragline) shall be supported by heavy planks or poles so as to distribute the load of the machine over larger area and to prevent any danger of the shovel (or dragline) over-turning.

9.10 When not in use, the shovel or dragline shall be moved to and stood on stable ground.

9.11 If more than one stripping machine is in use in any area, either on the same bench or on different benches, the machines shall be so spaced that there is no danger or accident from flying or falling objects etc. from one machine to the other.

10.0 Duties of Mechanics, Fitters and Engineers:

10.1 At the commencement of every shift, he shall personally inspect and test every machine and vehicle paying special attention to the following details:

- (a) that the brakes and the warning devices are in working order;
- (b) if the vehicle or machine is required to work after day-light hours, that the lights are in working order.

10.2 He shall not permit the vehicle or machine to be taken out for work nor shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

10.3 The mechanic shall maintain a record of every inspection in a bound, pagged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

11.0 ADDITIONAL DUTIES OF ENGINEERS PLACED IN CHARGE OF MACHINES AND EQUIPMENTS IN OPENCAST WORKINGS:

11.1 During each shift the machines and equipments at work shall be placed under the charge of qualified and experienced engineer to effect inspection, examination, safe operations and maintenance of the machines, equipments and accessories. During his shift the engineer/engineers shall;



- proximity as to be endangered.
- 13.3 He shall not swing the bucket of shovel over passing haulage units. While the trucks/dumpers are being loaded, he shall swing over the body of the truck/dumper and not over the cab, unless the cab is protected by a substantially strong cover.
- 13.4 The operator shall not allow any unauthorized person to ride on the machine.
- 14.0 **Duties of Truck / Dumper Operators:**
- 14.1 No person shall be permitted to ride on the running board of a truck or dumper.
- 14.2 As far as possible loaded trucks or dumper shall not be reversed on gradient.
- 14.3 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion material is dumped from the truck, dumper or other such vehicle.
- 14.4 Suitable "Code of Traffic Rules" shall be framed by the Mines Manager and enforced strictly for movement of all trucks, tippers and dumpers in the mine. A copy of the traffic rules shall be submitted to this Directorate for record. They shall be prominently displayed at the relevant places in the opencast workings and truck/dumper roads.
- 14.5 He shall not drive too fast, shall avoid distractions, and shall drive defensively.
- 14.6 He shall not attempt to overtake another vehicle unless he can see clearly far enough ahead to be sure that he can pass it safely. He shall also sound the audible warning signal before overtaking.
- 14.7 When approaching a stripping equipment, the driver of the truck, dumper shall sound the audible warning signal and shall not attempt to pass the stripping equipment until he has received proper audible signal in reply.
- 14.8 Before crossing a road or railway line, he shall reduce his speed, look in both directions along the road or line and shall proceed across the road or line only if it is safe to do so.
- 14.9 The driver shall sound the audible warning signal while approaching 'blind' corner or any other point from where persons may walk in front unexpectedly.
- 14.10 The driver shall not operate the truck or dumper in reverse unless he has a clear view of the area behind the vehicle or he has the assistance of a 'spotter' duly authorized in writing for the purpose by the manager. He shall give an audible warning signal before reversing a truck or dumper.
- 14.11 The driver shall be sure of clearance before driving through tunnels, archways, plant structures etc.
- 14.12 The driver shall see that the vehicle is not overloaded and that the material is not loaded in a truck or dumper so as to project horizontally beyond the sides of its body and that any material projecting beyond the front or rear is indicated by a red flag during the day and by red light after day light hours.
- 14.13 The driver shall not allow any unauthorized persons to ride on the vehicle. He shall also not allow more than the authorized number of persons to ride on the vehicle.
- 15.0 **Miscellaneous:**



for which this permission has been granted shall be stopped forthwith on intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh permission in writing.

- 15.8.2 This permission may be amended or withdrawn at any time should it be considered necessary in the interest of safety.
- 15.8.3 This permission is being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.

भारतीय

(एम. शत्रुघ्न)

मान्यता निदेशक,
माजियाबाद क्षेत्र, माजियाबाद.

आपका संख्या/माजिया/ S29024/GR/HAR/Bhawan/153 /Per 712 दिनांक 14/7/2015

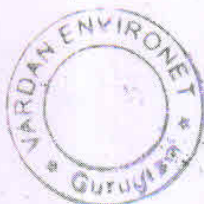
Copy forwarded for information and necessary action to:

प्रबंधक, ग्राटेला कलान स्टोन माइनिंग मैनेजर्स एसोसिएशन - जेपी (MSK-JV)

गामे ग्राटेला कलान से ग्राटेला स्टोन तहसील घग्गी दादरी जिला भीमानी हरीयाणा



मान्यता निदेशक,
माजियाबाद क्षेत्र, माजियाबाद.



M.S.K-JV ATELA STONE MINE

CH.DADRI (HARYANA)

List of heavy machinery & associated machine deployed

Name of machine	BHP/HP	Capacity	No of machine
VOLVO - 480	355	3.1	2
VOLVO - 380	288	1.8	1
VOLVO - 350	282	2	2
VOLVO 300	280	1.4	1
KOBELCO - 380	280	1.8	2
KOBELCO - 220 (ROCK CRACKER)	153	0.93	2
DRILLING MACHINE (COMPRESSOR)	170	-	3
BULLDOZER	450	-	1
LOADER (GRADER)	165	-	1
DISEL TANK	110	12 kl	1
WATER TANK	110	20 kl	2
WATER TANK (SERVICING VAN)	110	8 kl	1
MOBILE MAINTANCE VAN	110	-	1
BOLERO	50	-	2
CAMPER	50	-	2





भारत सरकार | Government of India
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)
 पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives
 हल संख्या 502 एवं 507, लेवल-5, ब्लॉक II | Hall No. 502 & 507, Level 5, Block II
 पुराना सी.जी.ओ. कॉम्प्लेक्स, एन एच 4 फरीदाबाद | Old CGO Complex, NH-4 Faridabad 121001
 फोन (Phone):- 2410734 | फैक्स (Fax):- 2410733

संख्या (No.) E/NC/HN/22/165(E97151)

दिनांक (Date): 13/09/2019

सेवा में | To,

M/s. Mala Kumar Engineers Pvt. Ltd.,
 S-571, Greater Kailash II, Town/Village - New Delhi
 District-DELHI, State-Delhi, Pincode - 110048

18 SEP 2019

विषय : Survey No.15/15, ग्राम Atela Naya, जिला BHIWANI, राज्य Haryana में मेसर्स M/s. Mala Kumar Engineers Pvt. Ltd. द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुमति सं E/NC/HN/22/165(E97151) के संशोधन (संशोधन)।
 (विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.:15/15, Atela Naya, Dist. BHIWANI, Haryana -Licence No.: E/NC/HN/22/165(E97151) granted in Form LE-3 of Explosives Rules, 2008 - (Amendment of Quantity of Explosives/Monthly Purchase Limit).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 18942 दिनांक 10/09/2019 का संतुर्भ सङ्ग्रह करें।
 Reference to your letter no. 18942 Dated 10/09/2019.

अनुमति संख्या E/NC/HN/22/165(E97151) विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन के संदर्भ में यथा संशोधित कर भेजी जा रही है।
 The Licence No.: E/NC/HN/22/165(E97151) is forwarded herewith duly amended in respect of followings:

Quantity of Explosives/Monthly Purchase Limit

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।
 The licence capacity at any one time shall not exceed the kinds and quantities mentioned below :

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रमाण Div	उप-प्रमाण Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	4500	Kg
2	Safety Fuse	6	1	0	10000	Mtrs
3	Detonating Fuse	6	2	0	30000	Mtrs
4	Electric and/or Ordinary Detonators	6	3	0	44000	No.

किसी एक कैलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ब) और (ग) के अधीन अनुमति के लिए मात्रा): 10 गुना
 Quantity of explosives to be purchased in a calendar month (applicable for licensee under article 3(b) and (c)): 10 times as above.

यह अनुमति दिनांक 31 मार्च 2023 तक प्रवृत्त रहेगी।
 This Licence shall remain valid till 31st day of March 2023.

अनुमति के आगामी लचीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पत्र को दे।
 For further revalidation (if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Yours faithfully

(आर.एन.मीना | R.N.Meena)

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives

उत्तरी क्षेत्र, फरीदाबाद
 North Circle, Faridabad

प्रतिलिपि भेजित | Copy Forwarded to:

1. District Magistrate, BHIWANI, Haryana with reference to his No. No: 349/T.L.B., Dated: 29/06/2018
2. Superintendent of Police, BHIWANI, Haryana.



MSK - IV

18348

अनुज्ञा प्रारूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part I of Schedule IV of Explosives Rules, 2008)(ग) उपयोग के लिए एक समय पर वर्ग 1, 2, 3, 4, 5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञा
Licence to possess : (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7 in a magazineअनुज्ञा सं. (Licence No.) : E/NC/IN/22/163(E97151)
वार्षिक फीस (Annual Fee Rs): 10400/-

1. Licence is hereby granted to

M/s. Mala Kumar Engineers Pvt. Ltd. (अधिभोगी / Occupier : Ranjit Prasad), S-571, Gurgaon
II., Town/Village : New Delhi, District-DELHI, State-Delhi, Pincode - 110048

को अनुज्ञा अनुदान की जाती है।

2. अनुज्ञाधारि की प्रस्थिति | Status of licensee : Company

3. अनुज्ञा निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।
Licence is valid only for the following purpose.possess for use of Nitrate Mixture, Safety Fuse, Detonating Fuse,
Electric and/or Ordinary Detonators, के उपयोग के लिए4. अनुज्ञा विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमाम्य है।
Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2.0	0	4500 Kg.
2.	Safety Fuse	6.1	0	10000 Mtrs
3.	Detonating Fuse	6.2	0	30000 Mtrs
4.	Electric and/or Ordinary Detonators	6.3	0	44000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3(घ) और (ग) के अधीन अनुज्ञा के लिए)
(b) Quantity of explosives to be purchased in a calendar month (applicable for licence under article 3(b) and (c))5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञा परिसर की स्पष्ट होती है।
The licensed premises shall conform to the following drawing(s):रेखाचित्र क्र. (Drawing No.) E/NC/IN/22/163(E97151)
दिनांक (Dated) 10/12/20186. अनुज्ञा परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No. 15/15, राम (Town/Village) : Mala Naya
जिला (District) : HARYANA
दूरभाष (Phone) : 8888888888Haryana
ranjit@mkindia.comपुलिस थाना (Police Station) : Badhna
पिनकोड (Pincode) : 122001
धनरा (Tax) : ME7. अनुज्ञा परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।
The licensed premises consist of following facilities:

Main Magazine, Lobby and Detonator Room

8. अनुज्ञा समय-समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उसके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपबंधों के अधीन रहते हुए अनुदान की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपयुक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, संनिर्माण संबंधी और अन्य विवरण) के अनुसार (Drawing (showing site, constructional and other details) as stated in serial No. 5 above)
- अनुज्ञा प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञा की शर्त और अतिरिक्त शर्तें।
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्रारूप DB-2 | Distance Form DE-2.

9. यह अनुज्ञा तारीख 31 मार्च 2023 तक विधिमाम्य रहेगी। This licence shall remain valid till 31st day of March 2023.

यह अनुज्ञा, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपबंधित इस अनुज्ञा की शर्तों का अधिकतम करने या यदि अनुज्ञा परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंकेत की जा सकती है, जहां यह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 10/12/2018

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
उत्तरी अंचल, फरीदाबाद
Joint Chief Controller of Explosives
North Circle, Faridabad

रजित



भारत सरकार | Government of India
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)
 पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives
 हाल संख्या 502 एवं 507, लेवल-3, ब्लॉक II | Hall No. 502 & 507, Level 3, Block B
 पुराना सी.जी.ओ. कॉम्प्लेक्स, एन.एच.4 फरीदाबाद | Old CGO Complex, NH-4 Faridabad 121001
 फोन (Phone):- 2410734 | फैक्स (Fax):- 2410733

संख्या (No.): E/NC/HN/22/165(E97151)

दिनांक (Date): 24/04/2019

सेवा में | To,

24 APR 2019

M/s. Mala Kumar Engineers Pvt. Ltd.,
 S-571, Greater Kallash II, Town/Village - New Delhi
 District-DELHI, State-Delhi, Pincode - 110048

विषय : Survey No. 15/15, गाँव Atela Naya, जिला BHUWANI, राज्य Haryana में रोडर्स M/s. Mala Kumar Engineers Pvt. Ltd. द्वारा विस्फोटक के गैंगजीम में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुमति सं E/NC/HN/22/165(E97151) के संशोधन संदर्भ में।
 (प्राधिकृत अभिकर्ता / अधिष्ठाता / Director में परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.:15/15, Atela Naya, Dist. BHUWANI, Haryana - Licence No.: E/NC/HN/22/165(E97151) granted in Form LE-3 of Explosives Rules, 2008 - (Change in Authorized Signatory/Occupier/Director).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या - दिनांक 24/04/2019 का संदर्भ ग्रहण करें।
 Please refer to your letter no. - dated 24/04/2019.

अनुमति संख्या E/NC/HN/22/165(E97151) प्राधिकृत अभिकर्ता / अधिष्ठाता / Director में परिवर्तन के संदर्भ में तथा संशोधित कर भेजी जा रही है।

The Licence No.: E/NC/HN/22/165(E97151) is forwarded herewith duly amended in respect of followings:
 Change in Authorized Signatory/Occupier/Director

लाइसेंस रिकॉर्ड में प्राधिकृत अभिकर्ता / अधिष्ठाता / Director के नाम इस प्रकार हैं।
 The following are the names of the Authorized Signatory/Occupier/Director in the licence records.

क्र No	नाम Name
1)	Sanjay Kumar Singh S/o Sh.Gulli Chand Chaudhary, (Authorized Signatory)
2)	Ranjit Prasad (Occupier)
3)	Ranjit Prasad (Director)
4)	Abhishek Kumar (Director)
5)	Mala Kumar (Director)
6)	Sanjay Kumar (Director)

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।
 The licence capacity at any one time shall not exceed the kinds and quantities mentioned below ;

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	4500	Kg.



M.S.K-JV ATELA STONE MINE CH.DADRI (HARYANA)

Present blasting parameters

DEPTH OF HOLE	10 M (with 1m=10% (SUB GRADE))
BENCH HEIGHT	9 M
BENCH WIDE	11 M
SPECING	4 M
BURDEN	3 M
BENCH SLOP	15 (degree) to vertical
DIA OF HOLE	100 MM/110MM



Signature





GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)

(Formerly Department of Explosives)
Hall No. 502 & 507, Level 5, Block B
Old CGO Complex, NH-4 Faridabad 121001
Tele: 2410734 Fax: 2410733
Email: jiccefaridabad@explosives.gov.in

No: E/NC/HN/25/273(E119277)

Dated: 14/03/2019

To,
M/s. Mala Kumar Engineers Pvt. Ltd.,
S-571, GREATER KAILASH II, NEW DELHI, DIST-DELHI, STATE-DELHI, PINCODE-110048
Town/Village - DELHI
Dist. DELHI, State. Delhi, Pincoda-110048

Subject: Road Van for the carriage of Explosives - Registration No HR849693 Licence No.: E/NC/HN/25/273(E119277) granted in Form LP-7 under Explosives Rules, 2008 -Endorsement regarding -Endorsement of Licence.

Sir(s),

Reference memo No.: E/NC/HN/25/273(E119277) Dated 14/03/2019 from Joint Chief Controller of Explosives, North Circle, Faridabad and inspection of the subject premises by an officer of this organization on 14/03/2019.

The subject licence No. E/NC/HN/25/273(E119277) valid upto 31st March 2024 duly endorsed is forwarded herewith.

For further renewal of licence, please submit following documents so as to reach this office on or before 31/03/2024.

- Application in Form RE-1 duly filled in and signed.
- Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Agra payable at Agra.
- Original licence with approved plan.
- In this connection, please also refer to Rule 112 of Explosives Rules, 2008.

Please follow following instructions strictly:

1. The records of explosives transported by the licenced Roadvan shall be maintained in the proforma RE-6 under Part 5 of schedule V of Explosives Rules 2008.
Please ensure that persons whose antecedents verified by the local Police shall only be employed with the licenced explosives roadvan/compressor mounded truck as drivers or cleaners. List of such drivers and cleaners alongwith the personal particulars shall be made available to the local police in advance. The re-verification of such staff shall also be made at least once in a year in compliance to Rule 61(3) of Explosives Rules 2008.
2. Please note that during transportation of explosives, the Roadvan shall always be attended to by two armed guards. If the consignment of explosives is likely to pass through sensitive areas notified by Ministry of Home Affairs, it should be escorted by armed Police escort / guard provided by District Police Administration as



Covering Letter

required in Rule 67(7) of Explosives Rules 2008.

Yours faithfully,

(SHARMA)

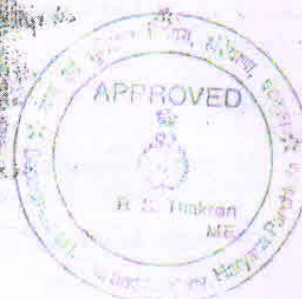
For Joint Chief

Copy Forwarded to:

1. District Magistrate, CHARKHI DADRI, Haryana with reference to his Noc No: E97149 Dated 08/12/2018.

For Joint Chief Controller of Explosives
North Circle, Faridabad

[For more information regarding status, fees and details please visit our web site <http://explosives.gov.in>]



निराकरण पत्र अद्वारि प्रमाणित की गई

18826

अनुज्ञप्ति प्रारूप एलई - 7 | LICENCE FORM LE-7
(विस्फोटक नियम 2008 की अनुसूची 4 के भाग 1 की अनुच्छेद 7 देखें) विस्फोटक नियन्त्रक
(See article no 7 of Part 1 of Schedule IV of Explosives Rules, 2008) मुख्य विस्फोटक नियन्त्रक
उत्तरी अंचल, फरीदकोट

अनुज्ञप्ति : राइडक वैन में विस्फोटकों के परिवहन के लिए
Licence to : transport explosives in a road van

अनुज्ञप्ति संख्या / Licence No. : E/NC/HN/25/273(E119277)
वार्षिक फीस रूप / Annual Fee Rs : 2500/-



1. अनुज्ञप्ति एतद्वारा जारी की जाती है
Licence is hereby granted to : M/s. Mala Kumar Engineers Pvt. Ltd. (Occupier: Ranjit Prasad)

S-571, GREATER KILASH II, NEW DELHI, DIST.
DELHI, STATE-DELHI, PINCODE-110048

2. अनुज्ञप्तिधारी की प्रास्थिति / Status of licensee
3. सड़क वैन की विशिष्टियाँ / Particulars of the road van

पंजीकरण संख्या / Registration No.

यान का मॉक एवं मॉडल / Make and model of vehicle

लदान रहित वजन / Unladen weight

लदान सहित अधिकतम वजन / Maximum laden weight

परिवहन के लिए अनुज्ञप्ति विस्फोटकों की अधिकतम मात्रा
Maximum quantity of explosives permitted for transport

इंजिन संख्या / Engine No.

चैसिस संख्या / Chassis No.

अन्य फिटिंग्स का विवरण / Description of Other fittings

वाहन के लिए अनुमत्य विस्फोटकों की मात्रा / Quantity of Explosives permitted to carry 1900 Kg(s)

HR849693

MAHINDRA & MAHINDRA
LTD., BOLERO PICK-UP
CBC WHEEL BASE PS
4.7T XL

1525 Kg(s)

3425 Kg(s)

1900 Kg(s)

TBK1A23702

MA1ZU2TBKK1A12924

4. अनुज्ञप्त परिसर निम्नलिखित आरेखण (आरेखणों) के अनुरूप होना चाहिए / The licensed premises shall conform to the following drawing(s):

आरेखण संख्या / Drawing No : E/NC/HN/25/273(E119277) दिनांक / dated : 14/03/2019

5. समय समय पर यथा संशोधित विस्फोटक अधिनियम, 1884 और उसके अधीन बनाए गए विस्फोटक नियम, 2008 के उपबन्धों और शर्तों एवं निम्नलिखित अनुलग्नकों के अधीन अनुज्ञप्ति प्रदान की जाती है।



The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed thereunder and the conditions and the following annexures.....

(क) तय्युक्त द्वाजा संख्या 4 में सथाकशित राउक पैम चग आरेखण / (a) Drawings of the road van as stated in serial no. 4 above.

(ख) अनुज्ञापन प्राधिकारी द्वारा हस्ताक्षरित शर्तें / (b) Conditions signed by the licensing authority.

6. यह अनुज्ञप्ति तारीख 31 मार्च 2024 तक विधिमान्य रहेगी / This licence shall remain valid till 31st day of March 2024.

यह अनुज्ञप्ति, अभिनियम या उसके अधीन विहित नियमों या इस अनुज्ञप्ति की शर्तों के उल्लंघन, अनुसूची 5 के भाग 4 में सन्दर्भित जहाँ भी लागू हो, या यदि अनुज्ञापन प्रसार आरेखण या उससे संलग्न उपायद्वों में दर्शाए गए विवरण के अनुरूप नहीं पाए जाते पर निरन्तर या प्रतिबंधित की जा सकती है।

This licence is liable to be suspended or revoked for any violation of the Act or rules framed there under or the conditions of this licence as set forth under, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and annexure attached hereto.

दिनांक / Date: 14/03/2019

संयुक्त मुख्य विस्फोटक नियंत्रक Joint Chief Controller of Explosives
उत्तरांचल, फरीदाबाद North Circle, Faridabad

अनुज्ञप्ति के नवीनीकरण हेतु मूद्रांकन / Endorsement for renewal of licence:

Joint Chief Controller of Explosives
North Circle, Faridabad

नवीनीकरण की तिथि वैधता समाप्ति की तिथि

Date of Renewal

Date of Expiry

अनुज्ञापन प्राधिकारी के हस्ताक्षर

Signature of Licensing authority

वैधानिक चेतावनी : विस्फोटकों का लापरवाही से प्रयोग या दुरुप्रयोग विधि के अधीन गम्भीर दण्डित अपराध होगा।
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.



Regn. No. HR1908474
 Regd. Owner: M/s. KALIA KARAN ENGINEERS PVT LTD
 SCV No. NA
 Purpose: All
 Regn. Date: 07/03/2019
 Manufacturing Dt: 01/2019
 Tax Paid Up To: 30/04/2019
 Regd. Valley: 25-07/2021

Cylinders No: 4
 Chassis No: 6A-02278RTA-00024
 Body Type: 2000 cc
 Model No: 2000 cc
 Motor No: 2000 cc

Registered In: VPO ATALA KALAN, CHARKHI DADRI, CHARKHI DADRI
 HR 127206

RTA CHARKHI DADRI
 Issuing Authority

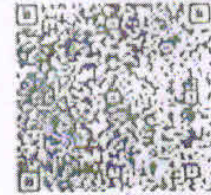
Signature Of Issuing Authority





GOVERNMENT OF HARYANA

State Transport Department
RTA CHARKI DADRI, HR



RECEIPT/APPL No: HRB4R19060000144/HR19061191004524
Vehicle Class: Goods Carrier
Received From: M/S MALA KUMAR ENGINEERS PVT LTD
Receipt Date: 11-Jun-2019
Vehicle No: HR849693
Chassis No: MA12U2TBKK1A12924
Regn Date: 07-Mar-2019
Permit Type: Goods Permit

Particular	Amount	Fine/Penalty/Addl. Fee	Total
MV Tax(01-Jul-2019 to 31-Dec-2019)	3600	0	3600

GRAND TOTAL (in Rs): 3600/- (THREE THOUSAND SIX HUNDRED ONLY)

Note-- This is computer generated slip, no need of signature (<https://parivahan.gov.in>).

NARENDER CASHIER

All India Valid WITH DELHI		All Over India Valid प्रदूषण नियन्त्रित प्रमाण पत्र Pollution Under Control Certificate		All India Valid WITH DELHI	
संख्या Sr. No.	1281	अधिकृत परीक्षक द्वारा जारी, हरियाणा Authorised By: Transport Commissioner Haryana		स्विचिंग पर HSU (%) भागफल HSU level at idling (%) volume	
प्रमाण पत्र संख्या PUCC No.	DILSLI LKD44-1281	प्रमाणित किया जाता है कि इस वाहन का HSU उत्तम है			
DL		इस परीक्षा का दिनांक 1909			
वाहन पंजी संख्या Vehicle R.No.	HR84-9693	इस परीक्षा का दिनांक 1909			
ब्रेक Make	RAHINDRA	इस परीक्षा का दिनांक 1909			
मॉडल Model	PickUp	इस परीक्षा का दिनांक 1909			
वर्ग Category	4W	इस परीक्षा का दिनांक 1909			
इंजन स्ट्रोक Engine Stroke	2019	इस परीक्षा का दिनांक 1909			
वर्ष Year		इस परीक्षा का दिनांक 1909			
ईंधन Fuel	Diesel	इस परीक्षा का दिनांक 1909			
दिनांक Date	10/12/2019	इस परीक्षा का दिनांक 1909			
समय Time	05:16:15 PM	इस परीक्षा का दिनांक 1909			
वैधता Valid upto	09/03/2020	इस परीक्षा का दिनांक 1909			
		हस्ताक्षरकर्ता Authorised Signatory नाम Name Signature		00044 Umesh Kumar Pollution Checking Center Vishnu HP Pump Tikona Park, Charkhi Dadri, Distt. Bhiwani (Hr.)	

Prescribe Pollution Checking charges: any Diesel Vehicle = Rs. 100/- (3 Month) 1st May 2016



GOVERNMENT OF HARYANA

State Transport Department
[RTA CHARKI DADRI]

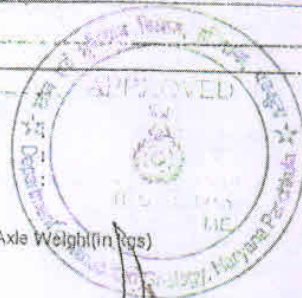
VEHICLE PARTICULARS (FOR INTERNAL USE)

Application No: HR19030745663391 Registration No: HR840693
Owner Name: M/S MALA KUMAR ENGINEERS Son/Wife/Daughter of: NA
PVT LTD
Vehicle Class: Goods Carrier Vehicle Maker: MAHINDRA & MAHINDRA LIMITED
Month/Year of Manuf.: 1/2019
Present Address: VPO ATELA KALAN, CHARKHI DADRI, Charkhi Dadri, Haryana-127306
Chassis No: MA1ZU2TBKK1A12924 Engine No: TBK1A23702
Color: WHITE Vehicle Status: ACTIVE
Owner Serial No: 1 Body Type: CLOSED No of Cylinders: 4
Horse Power: 69.95 Seat (inc. driver): 2 Unladen Wt(kg): 1520
Custn Wt(kg): 3425 Tax Amount: 3510 Cubic Capacity: 2523.00
Vehicle Model: BOLERO PIK-UP CBC Wheel Base 3280 Floor Area: 0.000
PS 1.7 T AL
Registration Date: 07-Mar-2019 Regn Valid upto: 06-Mar-2034 Tax Paid upto: 30 Jun 2010
Fuel: DIESEL Fitness upto: 25-Feb-2021 Vehicle Norms: BHARAT STAGE IV
Last Change of Address on: Last Alteration of Vehicle on:
COMPREHENSIVE Insurance From TATA AIG GENERAL INSURANCE CO. LTD, vide policy certificate/covernote no 01636371000 is valid from 30 Jan-2019 to 29 Jan 2020.

Permit Number: HR/04/GPA/GV/2019/8 Permit Type: Goods Permit
Permit Category: GOODS PERMIT (LGV) RTD Office Name: RTA CHARKI DADRI
Service Type: Ordinary Service
Valid From: 07-Mar-2019 Valid Upto: 06-Mar-2034

PERMIT AREA DETAIL

Region Code	Region
1	ALL HARYANA
Mobile No	8059889318
Other State/Transfer/Conversion Details	Final Id:
Previous Owner	Previous RegNo
Old State	Entry Date
Transfer Date	Conversion Date
Additional Particulars	
a) Front:	Number, Desc & size of
b) Rear:	7.00 R 15 (12 PR)
c) Other:	7.00 R 15 (12 PR)
d) Tandem:	1
	1
	Regd. Axle Weight(In Tgs)
	1135
	2290
	0
	0



Secretary
Regional Transport Authority
Charkhi Dadri
RTA CHARKI DADRI, HARYANA

Printed On: 07-Mar-2019 14:25:18



07-Mar-2019

http://mhan.parivahan.gov.in/vahan/vahan/ui/permitreports/C

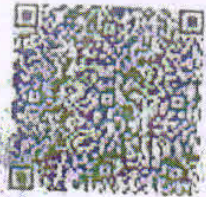


TRANSPORT DEPARTMENT, HARYANA

FORM SR - 28

[See Rules 66(1)(ii)]

PERMIT IN RESPECT OF GOODS PERMIT (GOODS PERMIT (LGV)) PART-A



1. Permit No. HR/B4/GP/LGV/2019/8
2. Name Of The Permit Holder M/S MALA KUMAR ENGINEERS PVT LTD
3. Father's/Husband's Name N/A
4. Address VPOATELA KALAN CHARKHI DADRI, Haryana
Charkhi Dadri-127306
HR-149693
07-Mar-2019
MAHINDRA & MAHINDRA LIMITED/BOLERO PIK-UP
CBORPS-17T-XL
MA12U2TBKK1A12824
TBK1A28702
Goods Carrier
2
2019
Ordinary Service
6. The route or routes of the area for which the permit is valid
Region Covered ALL HARYANA
7. Validity of the Permit : From 07-Mar-2019 To 06-Mar-2020
8. Load Capacity of Vehicle :
(i) Gross Weight of Vehicle 3425
(ii) Unladen Weight 1520
(iii) Pay Load 1905
9. Nature of Goods to be carried
10. Conditions of Permit Attached

Date 07-Mar-2019

Note: Vehicles more than 166" Wheel Base width are not allowed on hill routes on Uttarakhand



Secretary
Regional Transport Authority,
RTA CHARKHI DADRI, Haryana

3/7/2019 2:12 PM

Approval 07-Mar-2019

<https://vahan.parivahan.gov.in/vahan/vahan/ui/permitreports/>

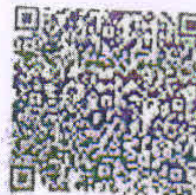
TRANSPORT DEPARTMENT HARYANA

FORM SR-28

[See Rules 65(1)(III)]



PERMIT IN RESPECT OF GOODS PERMIT (GOODS PERMIT
(LGV))
PART-B



1. Permit No.
2. Name Of The Permit Holder
3. Father's/Husband's Name
4. Address
5. Registration Mark of the Vehicle

HR/84/GP/LGV/2019/5
M/S MALA KUMAR ENGINEERS PVT LTD
NA
VPO ATELA KALAN CHARKHI DADRI, Haryana
Charkhi Dadri-127306
HR849693

6/4/19/2019

6. The route or routes of the area for which the permit is valid

Region Covered :

ALL HARYANA

7. Validity of the Permit :
8. Permit Laden Weight
9. Conditions of Permit

From: 07-Mar-2019 To: 08-Mar-2020

2425

Attached

Date 07-Mar-2019



0238216

INVOICE NUMBER FR-1820120050051 Inv Conf No.

NAME SUNIL KUMAR

OWN JAGDEY

MODE 12-JUL-1994 Valgrty (NT) 11-Dec-2032

Plant Grp (TRI) 24-JUL-2020

NO. ATEL NAYA 194CH

3AD3ATELA

ISSUE DATE 12-Dec-2012

Issue Date 12-Dec-2012

Author No

Authorization to Drive Date of Issue

EXP 12-December-2012

EXP 12-December-2012

EXP 12-July-2017

EXP 26-July-2017

Holder

Auth

Signature

Signature

Issuing Authority RTA CHARGE DADR

sanit





Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:
Issued To:

VEL/MSK/W/01
M/s MSK (JV)
S-571, Greater Kailash Part- II, New Delhi-110048

Name and Address of Party:

Stone Mine of Atela Kalan, Village- Atela Kalan,
Tehsil- Charkhi Dadri, District- Bhiwani (HR)

Sample Description:
Sampling Location:
Sample Collected by:
Sampling & Analysis
Protocol:

Ground Water Sample
Near Project site
Vardan Enviro Lab Representative
IS-10500-2012, APHA

Report No.: VEL/W/2001/03/005
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 07/01/2020
Period of Analysis: 03/01/2020 to 07/01/2020
Receipt Date: 03/01/2020
Sampling Date: 03/01/2020
Type of Sampling: Grab
Sampling Quantity: 2.0 Ltr.
Preservation: Refrigerated

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA, 4500-H ⁺ B Electrometric Method	7.45		6.5 to 8.5	No Relaxation
2	Colour	APHA, 2120 B, Visual Comparison Method	*BDL (**DL 5 Hazen)	Hazen	5	15
3	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0.1 NTU)	NTU	0.1	5
4	Odour	APHA, 2150 B, Threshold Test Method	Agreeable		Agreeable	Agreeable
5	Taste	APHA, 2160 B, Threshold Test Method	Agreeable		Agreeable	Agreeable
6	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	134.38	mg/l	75	600
7	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	38.78	mg/l	75	200
8	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	149.43	mg/l	200	600
9	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	52.70	mg/l	250	1000
10	#Cyanide as CN	APHA, 4500 CN ⁻ D	*BDL (**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	9.14	mg/l	30	100
12	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	354.00	mg/l	500	2000
13	Sulphate as SO ₄	APHA, 4500 F, Turbidimetric Method	41.37	mg/l	200	400
14	Fluoride as F	APHA, 4500-F ⁻ D, SPADNS Method	0.23	mg/l	1.0	1.5
15	Nitrate as NO ₃	IS 3025 (P-34), Chromotropic Method	4.67	mg/l	45	No Relaxation
16	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.19	mg/l	0.3	No relaxation
17	#Aluminium as Al	APHA, 3111 B	*BDL (**DL 0.03 mg/l)	mg/l	0.03	0.2
18	Boron	APHA, 4500B C, Carmine Method	0.43	mg/l	0.5	1
19	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL (**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

AMITABH DUBEY
(Tested By) ANALYST

SUBODH SARKHAWAT
DY. MGR. BY MANAGER

(Approved By)

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample No.: VEL/MSK/V/01				Report No.: VEL/V/2001/03/001		
S.No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01 mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.35	mg/l	5	15
24.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.14	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.003 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
28.	#Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	#Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.001 mg/l)	mg/l	0.01	0.05
30.	#Mercury as Hg	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622, 1981	<2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622, 1981	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample	

Note: - *BDL-Below Detection Limit, **DL- Detection Limit
#These parameter are not covered in our NABL scope.

AMITASH DUBEY
ANALYST

SUBODH SHEKHAWAT
DY. TE (Chemical) / JAFER

(Approved By)



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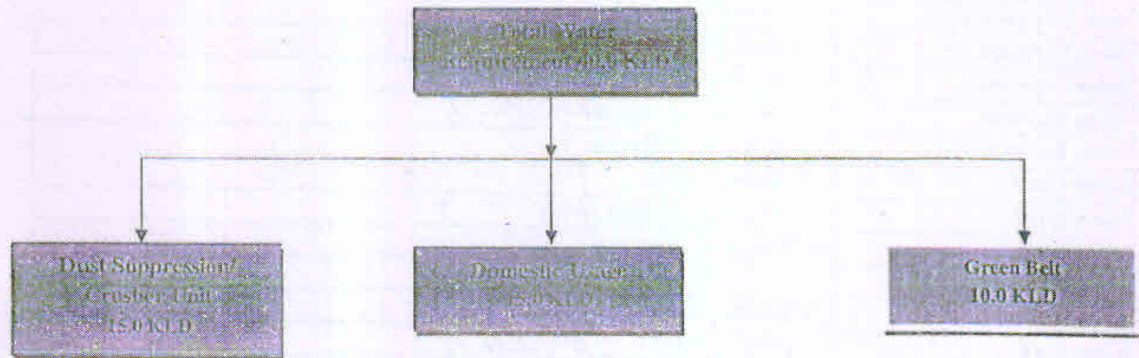
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WATER BALANCE FOR ATELA KALAN STONE MINE

VILLAGE- ATELA KALAN, TEHSIL- CHARKHI DADRI, DISTRICT- BHIWANI,
STATE-HARYANA

TOTAL LEASE AREA - 54.00 Ha. (NON-FOREST)



M.S.K-JV ATELA STONE MINES

CH.DADRI (HARYANA)

Mine working (Mining) staff

Mine Manager	Shri Umesh Singh
Asst. Mine Manager	Shri Sanjay Kumar Singh
Mine Foreman	Shri Ravindra Prasad Singh
Mine Foreman	Shri Bir Keshwar Singh
Mine Foreman	Shri Manoranjan Kumar
Mine Foreman	Shri Anil Kumar Sharma
Mine Mate	Shri Jai Ram Singh
Mine Mate	Shri Chandra Shekhar Singh
Mine Mate	Shri Sanjay Kumar Roy
Mine Mate	Shri Abdul Khalid Anwar
Mine Mate	Shri Prem Prakash
Mine Mate	Shri Hriday Ram
Blaster	Shri Nagendra Prasad Pandey

Chandra Shekhar Singh



Authorized Signatory

Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana
Branch Off: Plot No. 24 & 25, Narayani Vihar, B-Block, Jalpur - 302035, Rajasthan
ISO 9001 | ISO 14001 | ISO 45001

Sample Number: VEL/MSK/A/01 **Test Report** **Report No.:** VEL/A/2003/003/009
Issued To: M/s MSK (JV) **Format No.:** 7.8 F-01
S-571, Greater Kailash Part-II,
New Delhi-110048 **Party Reference No.:** NIL
Name & Address of Party: Stone Mine of AtelaKalan, Village-
AtelaKalan, Tehsil- Charkhi Dadri, District- **Reporting Date:** 07/03/2020
Bhlwani (HR) **Period of Analysis:** 03/03/2020 to 07/03/2020
Sample Description : Ambient Air Quality Monitoring **Receipt Date:** 03/03/2020

General Information:-

Sample collected by	Vardan Enviro Lab Representative
Sampling Location	Near Mine Site
Instrument Used	RDS & FPS sampler with all Accessories
Instrument Code	--
Instrument Calibration Status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	02/03/2020 to 03/03/2020
Time of Monitoring	09:05 AM to 09:05 AM
Ambient Temperature (°C)	Min. 18.8, Max. 31.4
Surrounding Activity	Human, Vehicular & mining related Activities
Scope of Monitoring	Regulatory Requirement
Control Measure if Any	No
Sampling & Analysis Protocol	IS-5182
Parameter Required	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂

TEST RESULTS

S. No.	Parameter	Protocol	Unit	Result	NAAQS*
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	µg/m ³	51.22	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), Gravimetric Method	µg/m ³	89.54	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser	µg/m ³	28.16	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2) Modified West and Gaeke	µg/m ³	12.91	80

*NAAQS - National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part II Sec 3(i)] 18.11.2009
#SOP - Standard Operating Procedure.



AMIT K. DUBEY
(Test Analyst)

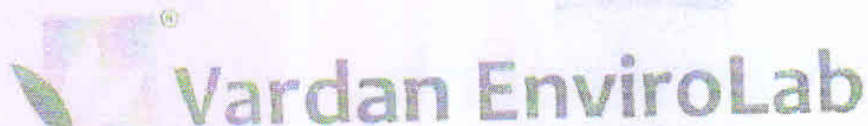
SUBODH SHENHAWAT
(Checked By)

(Approved By)

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/MSK/AN/01
Issued To: M/s MSK (JV)
Name & Address of Party: S-571, Greater Kailash Part- II, New Delhi-110048
Stone Mine of Atela Kalan, Village- Atela Kalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR)

Report No.: VEL/AN/2003/03/009
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 07/03/2020
Receipt Date: 03/03/2020

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:-

Sample collected by : Vardan EnviroLab Representative
Sampling Location : Near Mine Site
Instrument Used : Sound Level Meter
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 02/03/2020 to 03/03/2020
Time of Monitoring : 06:00 AM to 06:00 AM
Surrounding Activity : Human, Vehicular & mining related Activities
Scope of Monitoring : Regulatory Requirement
Control Measure if Any : No Any
Sampling & Analysis Protocol : IS-9989
Sampling Duration : 24 Hours
Parameter Required : L_{max} , L_{min} , L_{eq}



S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS 9989	73.7	68.9	dB(A)
2.	L_{min}	IS 9989	64.8	56.4	dB(A)
3.	L_{eq}	IS 9989	69.7	61.2	dB(A)
4.	*DGMS Limits in dB(A) L_{eq} (Mining Area)	--	75.0	70.0	dB(A)

*DGMS:-Directorate General of Mine Safety. *A "decibel" is a unit in which noise is measured.



AMITASH DUBEY
ANALYST
(Approved By)

SUBODH SHUKLA
ANALYST
(Approved By)

(Approved By)

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Test Report

Sample Number:	VEL/MSK/W/01	Report No.:	VEL/W/2003/01/001
Issued To:	M/s MSK (JV) S- 571, Greater Kailash Part-II, New Delhi-110048	Format No.:	7.8 F-01
		Party Reference No.:	NIL
Name of the Project:	Stone Mining of Atela Kalan, Vill- Atelakalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR)	Reporting Date:	07/01/2020
Sample Description:	Surface water Sample	Period of Analysis:	03/01/2020-07/01/2020
Sampling Location:	Pond Near Atela Khurd	Receipt Date:	03/01/2020
Sample Collected by:	Vardan Enviro Lab Representative	Sampling Date:	03/01/2020
Preservation:	Refrigerator	Sampling Quantity:	4.0 Ltr
Sampling and Analysis Protocol:	IS-2296-1982, APHA & SOP	Sampling Type:	Composite

S. No.	Parameter	Test-Method	Result	Unit
1	pH (at 25 °C)	APHA, 4500-H ⁺ B Electrometric Method	7.58	--
2	Colour	APHA, 2120 B, Visual Comparison Method	34.00	Hazen
3	Turbidity	APHA, 2130 B, Nephelometric Method	41.00	NTU
4	Odour	APHA, 2150 B, Threshold Test Method	Agreeable	--
5	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	278.00	mg/l
6	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	62.79	mg/l
7	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	240.85	mg/l
8	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	110.00	mg/l
9	Residual free Chlorine	APHA, 4500 Cl B Iodometric Method	*BDL (**DL 0.20mg/l)	mg/l
10	Cyanide as CN	APHA, 4500 CN D	*BDL (**DL 0.02 mg/l)	mg/l
11	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	28.27	mg/l
12	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	623.00	mg/l
13	Total Suspended solids	APHA, 2540 D Gravimetric Method	86.00	mg/l
14	Dissolved Oxygen	APHA, 4500 O B Iodometric Method	4.3	mg/l
15	Sulphate as SO ₄ ²⁻	APHA, 4500 E, Turbidimetric Method	54.34	mg/l
16	Fluoride as F	APHA, 4500-F D, SPADNS Method	1.02	mg/l
17	BOD (3 Days at 27 °C)	APHA, 5210 C / IS 3025, P-44	12.32	mg/l
18	COD	APHA, 5220 B, Open Reflux Method	46.00	mg/l

Ruchi Chaudhary
(Tested By)

Analyst

Subodh Shekhawat

(Checked By)

Deputy Technical Manager



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MSK - JV

Authorized Signatory

Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
Branch Off: Plot No. 24 & 25, Narayan Vihar, Block-B, Jaipur - 302035 (Rajasthan)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample No.: VEL/MSK/W/01			Report No.: VEL/W/2003/01/001	
S. No.	Parameter	Test-Method	Result	Unit
19.	Conductivity	APHA, 2510 B, Conductivity Meter Method	1.03	mS/cm
20.	Nitrate as NO ₃	IS 3025 (P-34), Chromotropic Method	21.35	mg/l
21.	Sodium as Na	APHA, 3500 Na B, Flame Photometric Method	46.00	mg/l
22.	Potassium as K	APHA 3500 K B, Flame Photometric Method	15.00	mg/l
23.	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.30	mg/l
24.	Aluminium as Al	APHA, 3111 DNitrous Oxide Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
25.	Boron	APHA, 4500B C, Carmine Method	*BDL(DL-0.01 mg/l)	mg/l
26.	Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.01 mg/l)	mg/l
27.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l
28.	Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01 mg/l)	mg/l
29.	Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l
30.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.21	mg/l
31.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.72	mg/l
32.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.10 mg/l)	mg/l
33.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.001 mg/l)	mg/l
34.	Total Coliform	IS 1622:1981,RA-2019	1120	MPN/100ml
35.	Fecal Coliform	IS 1622:1981,RA-2019	956	MPN/100ml

Note: *BDL-Below Detection Limit, **DL- Detection Limit

Ruchi Chaudhary
(Tested By)

Analyst

Subodh Shekhawat

(Checked By)

Deputy Technical Manager



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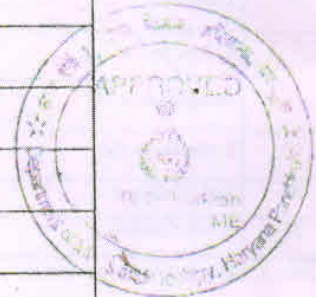
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List of Plantation for Green Belt

Sr. No.	Name of Tree	Number of Tree
1	नीम	82
2	कीकर	290
3	कीकर काबली	14
4	शीशम	46
5	बकाण	196
6	अलैंधस	129
7	सिरस	224
8	पापड़ी	67
9	बरगद	3
10	पीपल	8
11	गुलमेर	33
12	अशोका	11
13	अमरुद	2
14	निम्बू	2
15	एस्टोनियन	4
16	फ्राइकस	12
17	साइकस	
18	जामुन	2
19	सहतूत	33
20	हरेड़ा	5
21	लेहसुआ	16
22	अन्य	43
23	बड़बेरी (बेरी)	90
	Total	1312

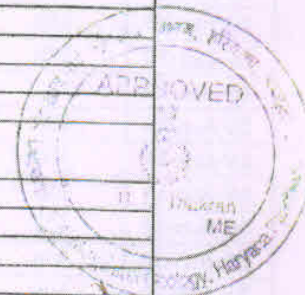


18/02/2020

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Atela stone mines ground vibration (MAY-2019)

DATE	R.L	DISTANCE	Vibration (mm/s)
1-May-19	328	300 M	0.1
1-May-19	305	300 M	NIL
2-May-19	340	300 M	NIL
2-May-19	328	300 M	NIL
3-May-19	340	300 M	NIL
4-May-19	360	300 M	0.2
4-May-19	328	300 M	NIL
5-May-19	NO BLASTING		
6-May-19	328	300 M	0.9
6-May-19	328	300 M	0.9
7-May-19	340	300 M	0.1
7-May-19	328	300 M	0.1
8-May-19	NO BLASTING		
9-May-19	340	300 M	0.7
9-May-19	328	300 M	0.7
10-May-19	328	300 M	NIL
10-May-19	308	300 M	NIL
11-May-19	328	300 M	NIL
11-May-19	328	300 M	NIL
12-May-19	NO BLASTING		
13-May-19	350	300 M	NIL
13-May-19	340	300 M	NIL
14-May-19	328	300 M	NIL
14-May-19	328	300 M	NIL
14-May-19	328	300 M	NIL
15-May-19	360	300 M	NIL
15-May-19	308	300 M	NIL
16-May-19	328	300 M	NIL
17-May-19	340	300 M	NIL
17-May-19	328	300 M	0.1
18-May-19	328	300 M	NIL
19-May-19	328	300 M	NIL
20-May-19	NO BLASTING		
21-May-19	350	300 M	NIL
22-May-19	328	300 M	NIL
22-May-19	328	300 M	NIL
23-May-19	370	300 M	NIL
23-May-19	328	300 M	NIL
24-May-19	NO BLASTING		
25-May-19	328	300 M	NIL
26-May-19	328	300 M	NIL
26-May-19	328	300 M	NIL
27-May-19	305	300 M	NIL
28-May-19	350	300 M	0.6
28-May-19	328	300 M	0.1
29-May-19	328	300 M	NIL
29-May-19	318	300 M	NIL
30-May-19	310	300 M	NIL
30-May-19	305	300 M	NIL
31-May-19	328	300 M	0.7
31-May-19	318	300 M	0.7

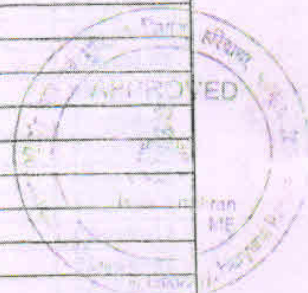


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Handwritten signature: Singh

Atela stone mines ground vibration (JUNE-2019)

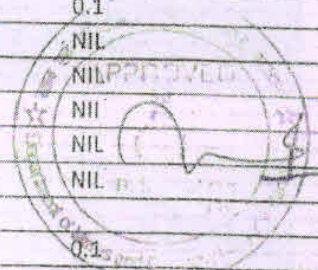
DATE	R.L	DISTANCE	Vibration (mm/s)
1-Jun-19	328	300 M	0.1
2-Jun-19	370	300 M	NIL
2-Jun-19	328	300 M	NIL
3-Jun-19	318	300 M	NIL
3-Jun-19	305	300 M	NIL
4-Jun-19	328	300 M	NIL
4-Jun-19	305	300 M	NIL
6-Jun-19	328	300 M	NIL
6-Jun-19	318	300 M	NIL
7-Jun-19	370	300 M	NIL
8-Jun-19	328	300 M	NIL
8-Jun-19	318	300 M	NIL
9-Jun-19	NO BLASTING		
10-Jun-19	340	300 M	NIL
11-Jun-19	360	300 M	NIL
11-Jun-19	318	300 M	NIL
12-Jun-19	NO BLASTING		
13-Jun-19	360	300 M	NIL
13-Jun-19	305	300 M	NIL
14-Jun-19	350	300 M	NIL
14-Jun-19	305	300 M	NIL
15-Jun-19	318	300 M	NIL
16-Jun-19	360	300 M	NIL
16-Jun-19	328	300 M	NIL
17-Jun-19	NO BLASTING		
18-Jun-19	350	300 M	NIL
19-Jun-19	370	300 M	NIL
19-Jun-19	318	300 M	NIL
20-Jun-19	328	300 M	NIL
20-Jun-19	308	300 M	0.1
21-Jun-19	360	300 M	NIL
21-Jun-19	318	300 M	NIL
22-Jun-19	318	300 M	0.1
22-Jun-19	318	300 M	0.1
23-Jun-19	370	300 M	0.3
23-Jun-19	350	300 M	0.1
24-Jun-19	308	300 M	NIL
24-Jun-19	305	300 M	0.2
24-Jun-19	290	300 M	0.3
25-Jun-19	318	300 M	NIL
26-Jun-19	360	300 M	NIL
26-Jun-19	318	300 M	NIL
27-Jun-19	340	300 M	NIL
28-Jun-19	318	300 M	0.6
28-Jun-19	290	300 M	0.1
29-Jun-19	370	300 M	NIL
29-Jun-19	318	300 M	NIL
30-Jun-19	340	300 M	NIL



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Atela stone mines ground vibration (JULY-2019)

DATE	R.L	DISTANCE	Vibration (mm/s)
1-Jul-19	308	300 M	0.1
2-Jul-19	328	300 M	NIL
2-Jul-19	318	300 M	NIL
3-Jul-19	350	300 M	NIL
4-Jul-19	340	300 M	NIL
5-Jul-19	328	300 M	NIL
6-Jul-19	350	300 M	NIL
6-Jul-19	318	300 M	0.1
7-Jul-19	318	300 M	NIL
8-Jul-19	350	300 M	NIL
9-Jul-19	NO BLASTING		
10-Jul-19	308	300 M	NIL
11-Jul-19	328	300 M	0.1
11-Jul-19	308	300 M	NIL
12-Jul-19	308	300 M	NIL
12-Jul-19	340	300 M	NIL
12-Jul-19	350	300 M	NIL
13-Jul-19	350	300 M	NIL
13-Jul-19	308	300 M	NIL
14-Jul-19	308	300 M	0.1
14-Jul-19	318	300 M	0.1
15-Jul-19	370	300 M	NIL
16-Jul-19	340	300 M	NIL
16-Jul-19	300	300 M	NIL
17-Jul-19	370	300 M	NIL
17-Jul-19	318	300 M	NIL
18-Jul-19	NO BLASTING		
19-Jul-19	300	300 M	0.1
19-Jul-19	318	300 M	0.1
20-Jul-19	318	300 M	NIL
21-Jul-19	NO BLASTING		
22-Jul-19	308	300 M	NIL
22-Jul-19	340	300 M	NIL
23-Jul-19	340	300 M	NIL
23-Jul-19	318	300 M	NIL
24-Jul-19	370	300 M	NIL
24-Jul-19	318	300 M	NIL
25-Jul-19	NO BLASTING		
26-Jul-19	308	300 M	NIL
26-Jul-19	305	300 M	NIL
27-Jul-19	370	300 M	0.2
27-Jul-19	305	300 M	0.2
28-Jul-19	NO BLASTING		
29-Jul-19	328	300 M	0.1
30-Jul-19	290	300 M	0.1
30-Jul-19	308	300 M	0.1
31-Jul-19	NO BLASTING		



240

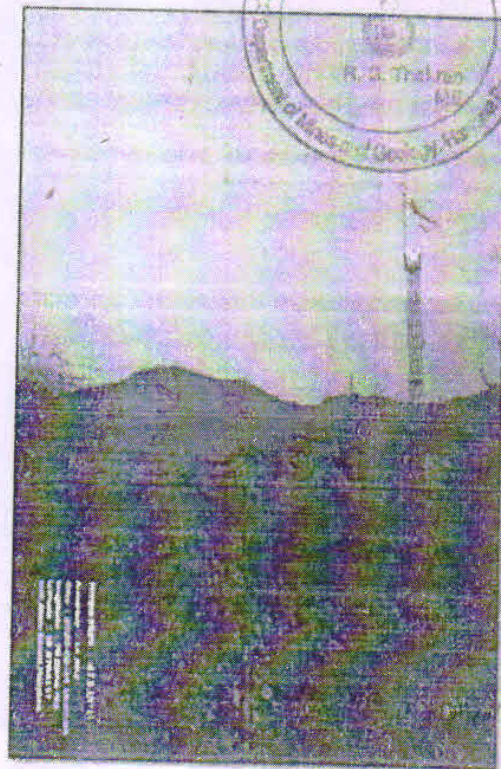
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MINE SITE PHOTOGRAPHS



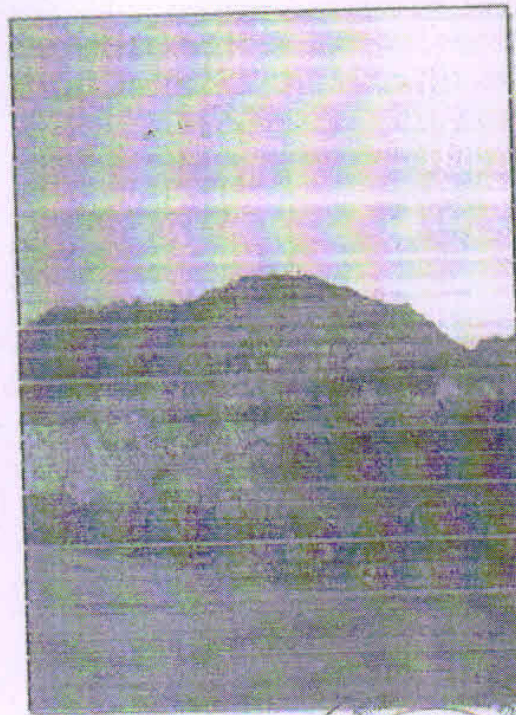
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MINE SITE PHOTOGRAPHS



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MINE SITE PHOTOGRAPHS



MSK-JV
Authorized Signatory

Survey report of Atela Kalan
Stone mine, Area 54.00 Hect.,
Tehsil : Charkhi Dadri,
District : Bhiwani,
State : Haryana

Applicant:

M/S MSK JV . S-571 Greater Kailash
Part II New Delhi 110048.



Present By: Dolphin Engineer, Jaipur

B-3, C-49, Vidya Apartments, Paras Marg, Bapu Nagar, Jaipur, Rajasthan - 302020



Disclosure of Consultant

We Dolphin Engineer a duly registered professional Surveyors in Jaipur Rajasthan state of India, acting as an consultant of M/S MSK JV do hereby certify the consultant's report represented here on , truly and correctly represent the result of a survey made of Atela Kalan mine , area 54.00 hectares , Charkhi Dadri ,District Bhiwani ,Haryana under our direction supervision and was completed in accordance with applicable standard of practice. The results shown here on are true and Accurate to the best of my knowledge, Information and belief.

This certification does not constitute a guaranty of warranty, either expressed or implied.

Authorized Signatory

Dolphin Engineer

Rajesh Saxena
Managing Director
B-3 ,C-49,Vidya apartment
Paras Marg, Bapunagar
JAIPUR 302020



MSK JV
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MSK is one of the leading and technically skilled company having technical staffs and resources to work in mining .promoters of company have experience of producing stone, marketing and manufacturing of aggregates in the region since 15 years .

Subsequent to auction process held on dated 30.12.2013 by Department of Mines & Geology, Govt. of Haryana, issued the letter of Intent for LOI grant (Annexure-) vide letter no.DMG/HY/ML/Atela Kalan/2013/155 dated 03.01.2014 in favor of M/s MSK JV

.The period of lease shall be 12 years & the same shall commence with effect from the date of grant of Environment Clearance by Competent Authority or on expiry of a period of 12 months from the date of communication of acceptance of highest bid /issuance of "Letter of Intent "whichever is earlier. The Company has obtained all statutory permissions and producing stone from the said mining lease area.

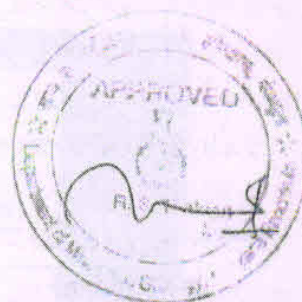
Location of mining lease area

Details of the land covered in the 'M.L. Area' are as under: -

District: Bhiwani.

Taluka: Charkhi Dadri.

State: Haryana



Village	Khasra no.	Area in hect.
Atela Kalan	103,104,105,106 and 107 Govt. Land (Gram Panchayat)	54.00 hectares

The area is bounded by coordinates between latitude $28^{\circ}34'14''$ to $28^{\circ}34'50''$ and longitude $76^{\circ}5'35''$ to $76^{\circ}6'17''$ on Topo sheet No.H43W2 , as approved by Department of Geology and Mining , Govt. of Haryana with latitude & longitude vide of all twelve corner boundary point/pillar are considered .



Signature of the authorized person.

Present scope of work

Scope of work for Total station surveying and other associated activities covers following work as under –

1. Total station survey
2. Ground control points from the nearest benchmark
3. Confirmation of boundary pillars
4. Preparation of lease maps
5. Survey of quarry
6. Preparation of plates

Instrument and software used

S.No.	Item	Accuracy	Version
1	NovCom	0.5MM 10PPM	2014
2	GPS Garmin	3 meter	2016
3	Pentax 02/407	1:2 Second	2012
4	AutoCAD		2010
5	ArcGIS		2016

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

The survey work and Associated Activities are as follows :

1 .DGPS Survey: The mine lease detail will be provided by the client shall be surveyed by DGPS instrument. The data collected shall be duly geo - referenced using Ground Control Points (GCPs) from the nearest GSI reference / control point / GTS bench mark and collected using dual frequency DGPS receiver . A base map shall be prepared using these data.

ii .Erection of Boundary Pillars - The lease boundary pillars (size of Corner Pillar shall have a base of 0 .30m x 0 .30m and height of 1 .30m whereas Intermediate Pillar shall have a base of 0 .25m x 0 .25m and height of 1 .0m) of each mine lease pillars are to be fixed precisely as per specifications.

iii. Survey of all the lease areas and boundary locations.



List of Total Station Coordinates and levels

Ground Elevation of existing site at Atela Kalan, P.O. & Tehsil Charkhi Dadri, District Bhilwari, State Haryana						
S.NO.	Northing	Easting	Elevation	Description	Latitude	Longitude
1	3161272.179	607388.187	229.400	GL	28°34'26.0709	76°5'52.8413
2	3161519.841	607525.964	231.000	GL	28°34'34.0763	76°5'58.0957
3	3161301.143	607418.405	231.200	GL	28°34'27.0030	76°5'54.0682
4	3161542.484	607572.436	231.200	GL	28°34'34.7981	76°5'59.8198
5	3161203.071	607326.298	231.800	GL	28°34'23.8441	76°5'50.6402
6	3161235.238	607350.172	232.000	GL	28°34'24.8821	76°5'51.5297
7	3161503.868	607454.257	232.300	GL	28°34'33.5787	76°5'55.4511
8	3161573.560	607444.739	232.800	GL	28°34'35.8458	76°5'55.1244
9	3161544.300	607431.738	232.900	GL	28°34'34.8990	76°5'54.6360
10	3161562.393	607467.730	233.600	GL	28°34'35.4761	76°5'55.9668
11	3161331.205	607455.982	234.300	GL	28°34'27.9686	76°5'55.4343
12	3161555.366	607492.856	235.600	GL	28°34'35.2405	76°5'56.8708
13	3161222.825	607286.264	236.300	GL	28°34'24.4978	76°5'49.1734
14	3161348.472	607474.463	236.600	GL	28°34'28.5239	76°5'56.1423
15	3161564.112	607575.145	237.400	GL	28°34'35.4999	76°5'59.8208
16	3161568.514	607516.201	237.500	GL	28°34'35.6606	76°5'57.7528
17	3161427.459	607458.753	237.600	GL	28°34'31.0949	76°5'55.5908
18	3161372.038	607496.641	237.800	GL	28°34'29.2630	76°5'55.9668
19	3161552.252	607630.102	238.500	GL	28°34'35.0982	76°5'1.93952
20	3161588.245	607453.594	238.500	GL	28°34'36.3203	76°5'55.4552
21	3161375.090	607439.839	238.800	GL	28°34'28.8931	76°5'54.8770
22	3161266.575	607312.335	239.600	GL	28°34'25.5866	76°5'50.1443
23	3161548.181	607411.124	242.300	GL	28°34'35.0313	76°5'53.6786
24	3161288.377	607358.611	243.000	GL	28°34'26.6060	76°5'51.8656
25	3161472.531	607400.735	243.600	GL	28°34'32.5765	76°5'53.4707
26	3161448.008	607404.016	243.600	GL	28°34'31.7788	76°5'53.6832
27	3161543.416	607702.311	243.600	GL	28°34'34.7895	76°5'54.59419
28	3161604.272	607651.100	243.700	GL	28°34'36.7820	76°5'52.72995
29	3161602.166	607472.635	243.700	GL	28°34'36.7669	76°5'56.1607
30	3161610.492	607483.815	244.100	GL	28°34'37.0341	76°5'56.6760
31	3161520.041	607399.884	244.100	GL	28°34'34.1204	76°5'53.4554
32	3161595.648	607520.204	244.200	GL	28°34'36.5409	76°5'57.9083
33	3161498.818	607419.445	244.600	GL	28°34'33.4250	76°5'54.1682
34	3161603.784	607423.292	244.600	GL	28°34'36.8342	76°5'54.3452
35	3161341.666	607402.864	244.600	GL	28°34'28.3242	76°5'53.6049
36	3161601.055	607532.822	244.900	GL	28°34'36.7128	76°5'59.8758
37	3161480.326	607433.293	245.000	GL	28°34'32.8201	76°5'54.6716
38	3161577.417	607407.489	245.200	GL	28°34'35.9822	76°5'53.7547
39	3161543.113	607379.332	245.800	GL	28°34'34.8761	76°5'52.7068
40	3161533.187	607355.905	245.600	GL	28°34'34.5606	76°5'51.8412
41	3161402.897	607424.022	245.600	GL	28°34'30.3072	76°5'54.3043
42	3161446.370	607451.714	245.700	GL	28°34'31.7114	76°5'55.3381



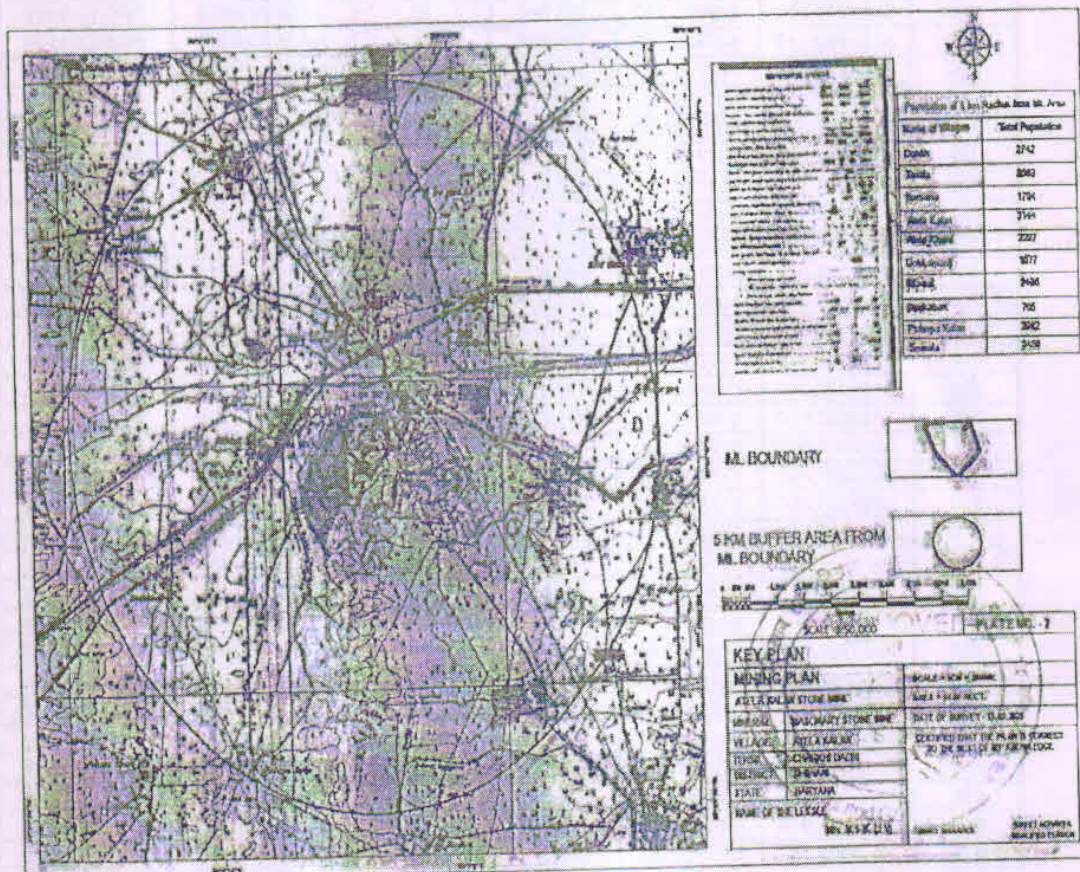
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90	3161203.263	607448.720	286.000	GL	28°34'23.6138	76°5'55.1459
91	3161240.055	607473.212	286.000	GL	28°34'25.0019	76°5'56.0597
92	3161319.028	607542.580	286.400	GL	28°34'27.5470	76°5'58.6394
93	3161297.697	607521.296	286.600	GL	28°34'26.8603	76°5'57.8489
94	3161440.140	607866.321	286.700	GL	28°34'31.3851	76°6'10.5955
95	3161172.071	607419.746	287.000	GL	28°34'22.8091	76°5'54.0690
96	3161458.928	607816.673	287.900	GL	28°34'32.0104	76°6'8.77467
97	3161288.420	607576.892	288.500	GL	28°34'26.5423	76°5'59.8919
98	3161240.672	607536.161	289.900	GL	28°34'25.0032	76°5'58.3767
99	3161192.206	607488.385	291.200	GL	28°34'23.4428	76°5'56.6020
100	3161134.655	607384.375	291.300	GL	28°34'21.6040	76°5'52.7546
101	3161123.331	607364.552	292.100	GL	28°34'21.2360	76°5'52.7573
102	3161423.438	607776.251	293.600	GL	28°34'30.8694	76°6'7.27493
103	3161269.220	607580.860	293.600	GL	28°34'25.9173	76°6'0.03149
104	3161323.286	607628.592	294.100	GL	28°34'27.6597	76°6'1.80651
105	3161425.027	607838.823	294.200	GL	28°34'30.9023	76°6'9.58209
106	3161435.182	607793.690	294.200	GL	28°34'31.2458	76°6'7.92074
107	3161409.836	607875.941	295.300	GL	28°34'30.3977	76°6'10.8393
108	3161431.839	607748.046	295.300	GL	28°34'31.1508	76°6'6.23970
109	3161409.026	607714.788	295.400	GL	28°34'30.4196	76°6'5.00792
110	3161150.894	607434.793	295.500	GL	28°34'22.1162	76°5'54.6166
111	3161215.507	607532.896	295.800	GL	28°34'24.1865	76°5'58.2480
112	3161352.533	607651.044	296.600	GL	28°34'28.6032	76°5'52.64274
113	3161088.045	607419.474	298.000	GL	28°34'20.0792	76°5'54.0305
114	3161321.751	607608.863	298.700	GL	28°34'27.6156	76°6'1.08356
115	3161376.121	607690.625	299.100	GL	28°34'29.3577	76°6'4.10748
116	3161375.588	607726.788	299.800	GL	28°34'29.3296	76°6'5.43753
117	3161139.579	607473.968	301.400	GL	28°34'21.7373	76°5'56.0536
118	3161308.618	607636.693	301.500	GL	28°34'27.1807	76°6'2.09971
119	3161242.612	607580.645	302.100	GL	28°34'25.0594	76°6'0.02201
120	3161402.551	607761.226	303.800	GL	28°34'30.1953	76°6'6.71487
121	3161223.327	607566.464	304.400	GL	28°34'24.4306	76°5'59.4861
122	3161187.603	607533.509	304.600	GL	28°34'23.2798	76°5'58.2612
123	3161095.955	607451.583	305.100	GL	28°34'20.8266	76°5'55.2150
124	3161155.017	607509.518	306.100	GL	28°34'22.2282	76°5'57.3672
125	3161407.849	607817.815	306.200	GL	28°34'30.8505	76°6'8.79640
126	3161337.911	607686.970	307.800	GL	28°34'28.1174	76°6'3.96003
127	3161124.687	607495.472	307.900	GL	28°34'21.2470	76°5'56.8400
128	3161311.972	607664.508	308.000	GL	28°34'27.2813	76°6'3.12455
129	3161233.362	607602.603	312.800	GL	28°34'24.7458	76°6'0.81960
130	3161356.820	607729.358	313.000	GL	28°34'28.7101	76°6'5.52650
131	3161380.970	607780.472	313.600	GL	28°34'29.4884	76°6'7.41590
132	3161190.735	607566.668	314.300	GL	28°34'23.8716	76°5'59.4826
133	3161369.821	607751.820	314.600	GL	28°34'29.1347	76°6'6.35760
134	3161318.057	607689.827	315.000	GL	28°34'27.4715	76°6'4.05846
135	3161259.862	607625.643	315.500	GL	28°34'25.5999	76°6'1.67653
136	3161381.409	607821.007	316.700	GL	28°34'29.4905	76°6'8.90792

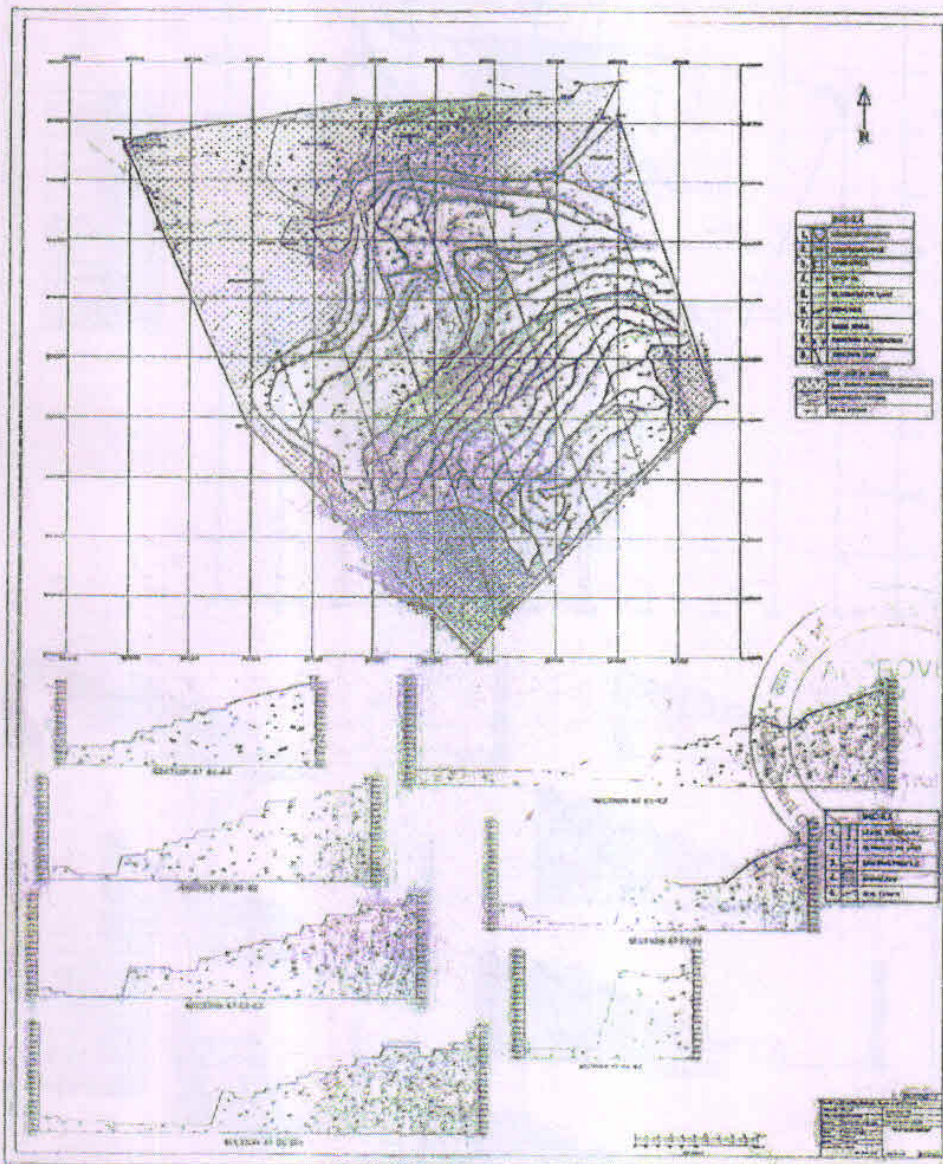
184	3161049.879	607670.058	369.100	GL	28°34'16.7644	76°6'3.24016
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186	3161232.073	607854.249	371.300	GL	28°34'24.6287	76°6'10.0807
187	3161218.614	607815.848	372.300	GL	28°34'24.2029	76°6'8.66280
188	3161076.363	607675.246	377.200	GL	28°34'19.6233	76°6'3.44006
189	3161180.075	607811.523	378.800	GL	28°34'22.9521	76°6'8.49067
190	3161179.005	607861.777	379.900	GL	28°34'22.9023	76°6'10.3398
191	3161152.417	607826.959	382.500	GL	28°34'22.0489	76°6'9.04940
192	3161073.519	607702.634	382.800	GL	28°34'19.5227	76°6'4.44707
193	3161154.390	607769.487	383.200	GL	28°34'22.1302	76°6'6.83488
194	3161092.390	607729.027	386.000	GL	28°34'20.1279	76°6'5.42462
195	3161134.368	607752.003	386.600	GL	28°34'21.4849	76°6'6.28463
196	3161013.111	607734.889	387.000	GL	28°34'17.5505	76°6'5.61873
197	3161116.409	607804.147	390.200	GL	28°34'20.8859	76°6'8.18764
198	3161111.230	607762.998	390.700	GL	28°34'20.7299	76°6'6.68145
199	3161049.547	607757.952	391.000	GL	28°34'18.7274	76°6'6.47486
200	3161133.563	607812.420	392.500	GL	28°34'21.4407	76°6'8.50793
201	3161100.375	607815.498	394.700	GL	28°34'20.3615	76°6'8.60997
202	3161066.976	607785.826	395.200	GL	28°34'19.2853	76°6'7.50662
203	3160000.000	615350.000	379.945	GL	28°33'42.2789	70°10'45.504
204	3160000.000	615400.000	381.802	GL	28°33'42.2629	70°10'47.344
205	3160000.000	615450.000	345.446	GL	28°33'42.2489	70°10'49.184
206	3160000.000	615500.000	310.121	GL	28°33'42.2308	70°10'51.024
207	3160000.000	615550.000	278.824	GL	28°33'42.2148	70°10'52.883
208	3159959.953	614850.000	269.952	GL	28°33'41.1374	70°10'27.090
209	3160022.976	614850.000	268.952	GL	28°33'43.1850	70°10'27.112
210	3159855.776	614900.000	268.142	GL	28°33'37.7369	70°10'28.892
211	3160023.003	614900.000	268.952	GL	28°33'43.1698	70°10'28.452
212	3159751.598	614950.000	265.538	GL	28°33'34.8364	70°10'30.694
213	3160023.030	614950.000	266.776	GL	28°33'43.1548	70°10'30.792
214	3159647.421	615000.000	262.085	GL	28°33'30.9358	70°10'32.497
215	3160023.056	615000.000	264.678	GL	28°33'43.1397	70°10'32.682
216	3159600.864	615050.000	263.897	GL	28°33'29.4106	70°10'34.620
217	3160023.083	615050.000	262.448	GL	28°33'43.1247	70°10'34.472
218	3159598.508	615100.000	269.567	GL	28°33'29.8148	70°10'36.159
219	3160023.110	615100.000	260.709	GL	28°33'43.1096	70°10'36.312
220	3159327.329	615150.000	266.951	GL	28°33'20.4886	70°10'37.001
221	3159376.679	615150.000	271.618	GL	28°33'22.0919	70°10'37.919
222	3159596.052	615150.000	277.347	GL	28°33'29.2191	70°10'37.998
223	3160023.137	615150.000	272.262	GL	28°33'43.0945	70°10'38.182
224	3159200.911	615200.000	260.694	GL	28°33'16.3655	70°10'39.695
225	3160023.183	615200.000	260.529	GL	28°33'43.0784	70°10'39.982
226	3159217.156	615250.000	260.694	GL	28°33'16.8773	70°10'41.541
227	3160023.190	615250.000	316.065	GL	28°33'43.0643	70°10'41.882
228	3159233.401	615300.000	260.522	GL	28°33'17.8891	70°10'43.986
229	3160023.217	615300.000	350.076	GL	28°33'43.0492	70°10'43.872
230	3159249.647	615350.000	260.187	GL	28°33'17.9009	70°10'45.282



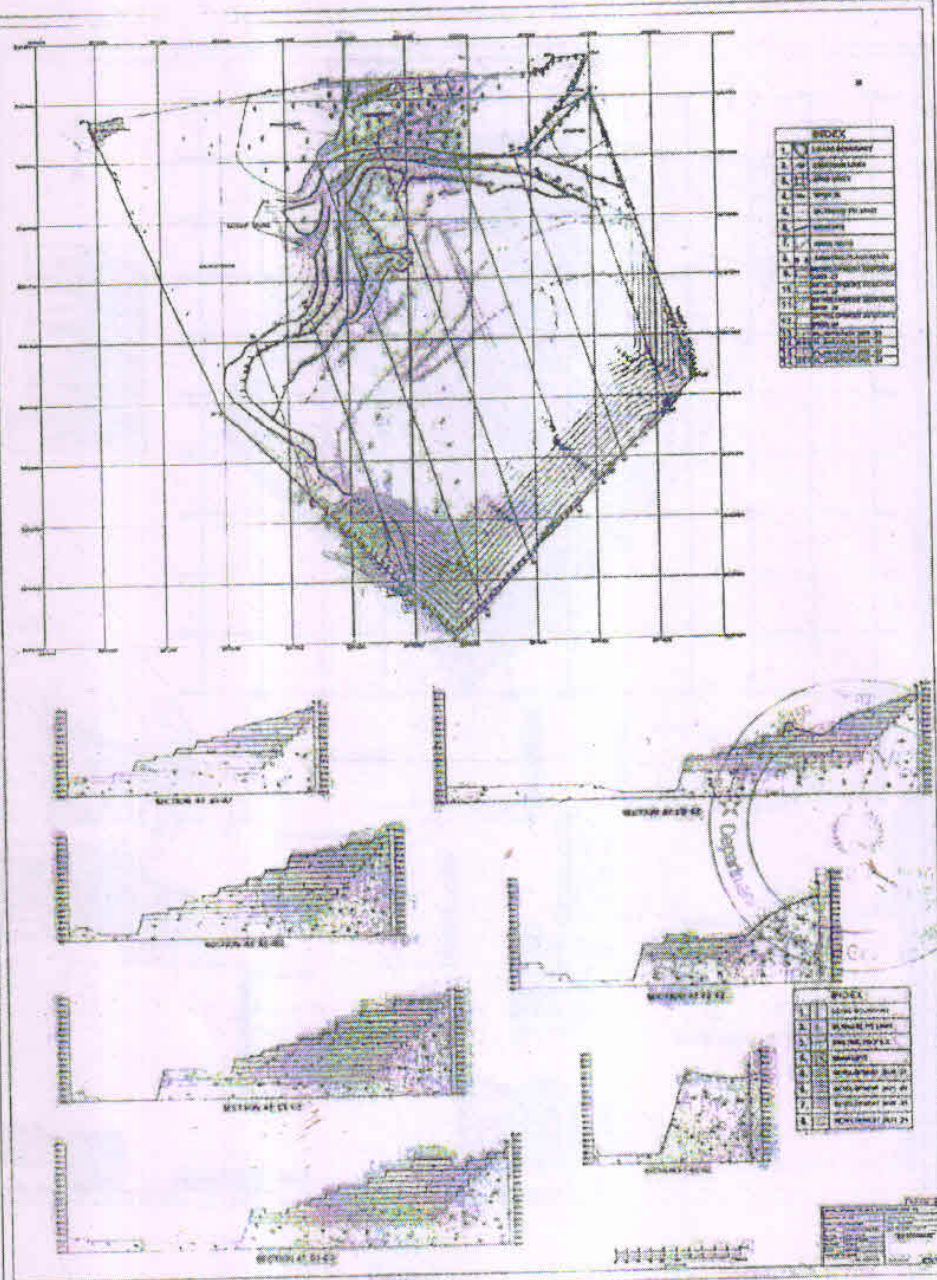
Key Plan (Plate No.02)



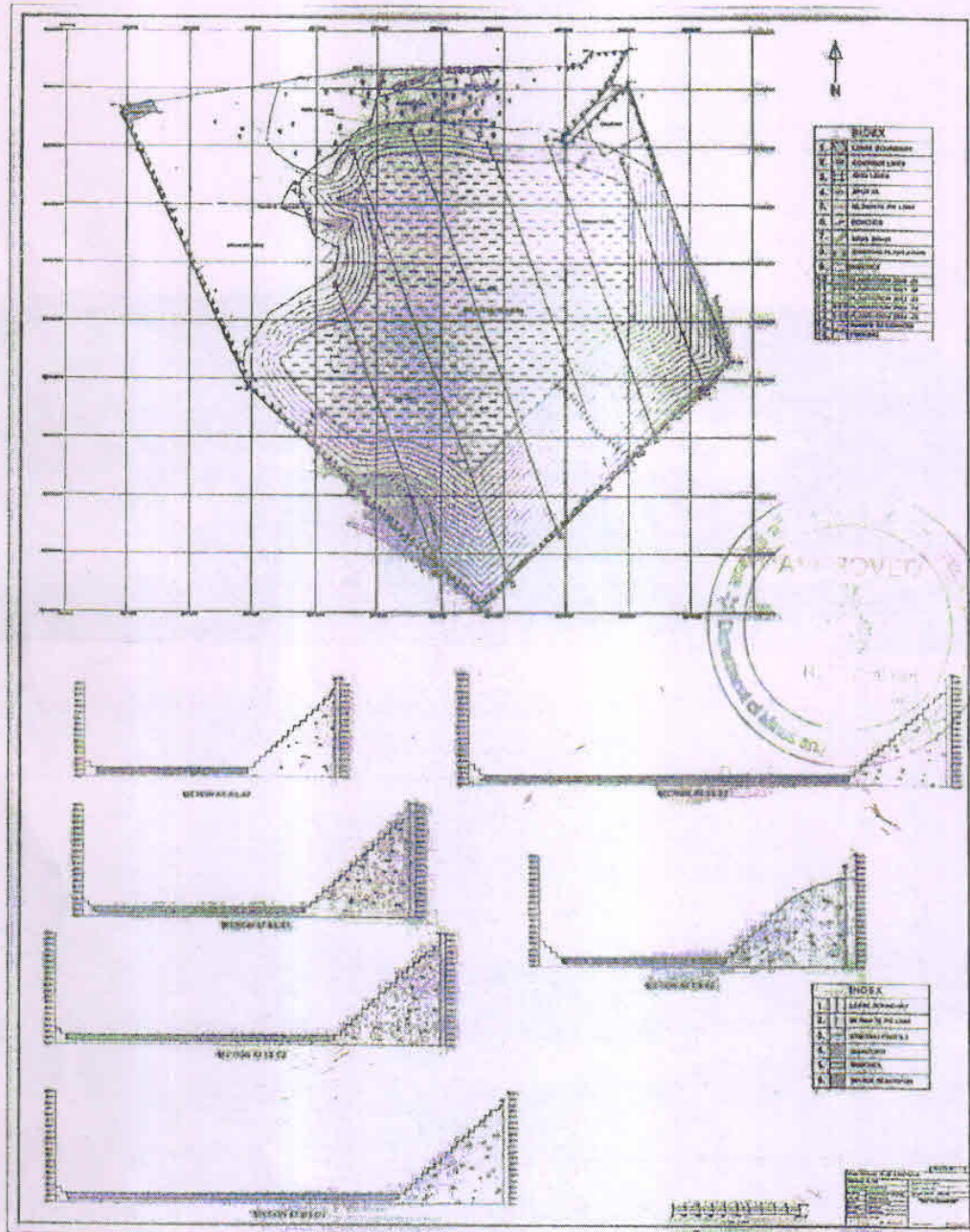
Surface Geological Plan & Section (Plate No.04)



Development Plan & Section Plate No.-5D



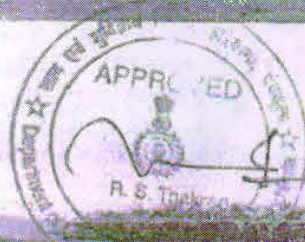
Conceptual Plan & Section (Plate No.06)



Photograph of Site location



Handwritten signature or mark.



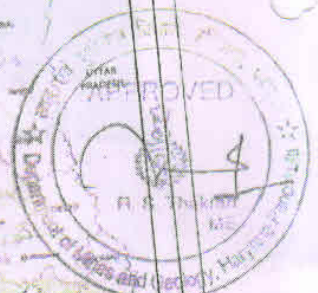
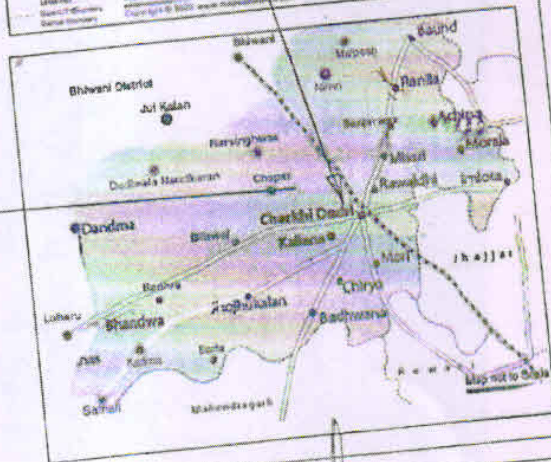
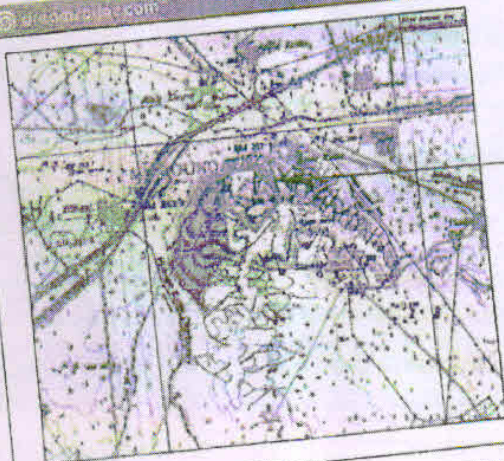
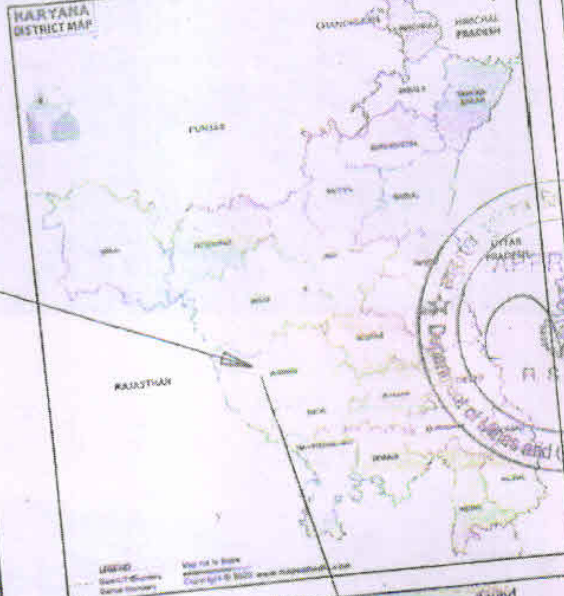
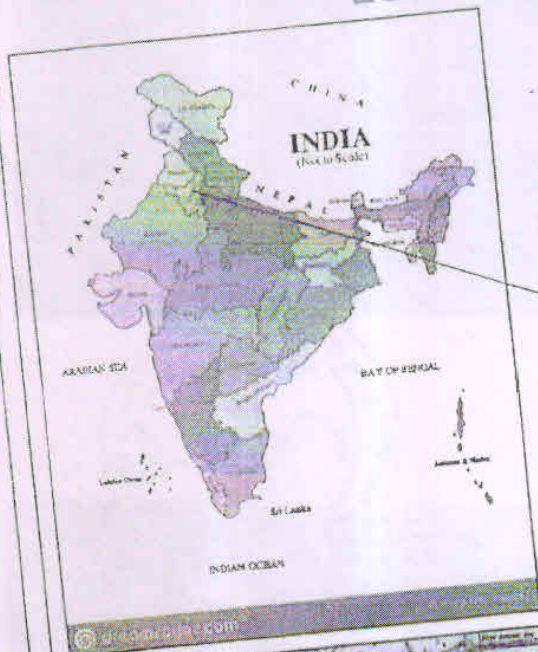
End of Report



Handwritten signature and text at the bottom right of the page.

LOCATION MAP

PLATE NO. - 1



KIREET ACHARYA
RQP/AJM/230A/2003