REGISTERED PARCEL

GOVERNMENT OF INDIA MINISTRY OF MINES INDIAN BUREAU OF MINES

OFFICE OF THE CONTROLLER OF MINES (SOUTH ZONE)

29, Industrial Suburb, II Stage,

Tumkur Road, Goraguntapalaya,

Yeswanthpur,

Bangalore- 560 022 Date: 18.09.2012

FAX: Tel:

To

E-mail:

(080) 23373287

(080) 23375365/ 23375366-67

zo.bangalore@ibm.gov.in No. KNT/BLR/MP/Fe--261-SZ

M/s Sri Kumaraswamy Mineral Exports Pvt. Ltd.,

No. 54/J, III Main, Parvathi Nagar, Bellary-583 101, Bellary District.

Karnataka State

Approval of Mining Plan including Progressive Mine Closure Plan in respect of Ramanadurga Iron Ore Mine (ML No.2141) over an extent of 60.80 Ha, in Ramanadurga Block, Sandur Taluk, Bellary District of Karnataka State, submitted under Rule 24 (A) of MCR, 1960.

Ref:

Letter No. Nil dated 11.09.2012 from your RQP submitting five bound copies of the Mining Plan including Progressive Mine Closure Pian

Sirs,

In exercise of the power conferred by the clause (b) of subsection (2) of section 5 of Mines and Minerals (Development & Regulation) Act, 1957, read with Government of India order No.S.O.445 (E) dated 28.04.1987, I hereby approve the Mining Plan (including Progressive Mine Closure Plan). This approval is subject to the following conditions: -

- 1. This Mining Plan (including Progressive Mine Closure Plan) is approved without prejudice to any other law applicable to the area from time to time whether made by the Central Government, State Government or any other authority.
- 2. The Mining Plan (including Progressive Mine Ciosure Plan) is approved without prejudice to any order or direction from any court of competent jurisdiction.
- 3. It is also clarified that the approval of your aforesaid Mining Plan (including Progressive Mine Closure Plan) does not in any way imply the approval of the Government in terms of any other provision of the Mines and Minerals (Development & Regulation) Act, 1957, or the rules framed there under and any other law.
- 4. It is further clarified that the approval of the Mining Plan (including Progressive Mine Closure Plan) is subject to the provision of Forest (Conservation) Act, 1980, Forest Conservation Rules, 2003 and other relevant statutes, orders and guidelines as may be applicable to the lease area from time to time.
- 5. Provisions of the Mines Act, 1952 and Rule & Regulations made there under including submission of notice of opening, appointment of manager and other statutory officials as required by the Mines Act, 1952 shall be complied with.



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- 6. Your attention is invited to the Hon'ble Supreme Court's Interim Order on WP(C) No.202 dated 12.12.1996 for compliance. The approval of the Mining Plan (including Progressive Mine Closure Plan) is therefore, issued without prejudice to and is subject to the said direction of the Hon'ble Supreme Court as applicable in your case.
- 7. Approval of Mining Plan (including Progressive Mine Closure Plan) is without prejudice to the final outcome of the Hon'ble Supreme Court order in SLA No. 7366- 7367/2010 and interim orders passed by the Hon'ble Supreme Court from time to time in the said W.P. Nos. 25910/2009 and 26083/2009.
- 8. Approval of Mining Plan (including Progressive Mine Closure Plan) is subject to the condition that mining operations and other allied activities shall not be extended in unbroken forest area in compliance of the Hon'ble Supreme Court order dated 20.4.2012 in SLA No. 7366-7367/2010 in WP No. 25910/2009 and 26083/2009.
- 9. The execution of the Mining Plan (including Progressive Mine Closure Plan) shall be subjected to vacation of prohibitory orders/notices, if any.
- 10. A copy of EIA/EMP report approved by the MOEF, New Delhi in terms of the interim order passed by the Hon'ble Supreme Court vide its order dated 20.4.2012 in SLA No. 7366-7367/2010 should be submitted to this office and also to the Regional Controller of Mines, IBM, Bangalore within a month of approval along with a copy of their letter of approval.
- 11. Environment monitoring Cell of the Company shall continue monitoring ambient air quality, dust fall rate, water quality, soil sample analysis and noise level measurements on various stations established for the purpose both in the core zone and buffer zone as per Department of Environment guidelines and keeping in view CCOM's Circular No. 3/92 season-wise every year by engaging the services, preferably of an Environmental laboratory approved by MOEF/ CPCB. The data so generated shall be maintained in a bound paged register kept for the purpose and the same shall be made available to the inspecting officer on demand.
- 12. The validity period of the financial assurance should be renewed before the expiry of the same and should be submitted to the Regional Controller of Mines, Indian Bureau of Mines, Bangalore, under intimation to this office.
- 13. In case the mining lease falls within a radius of 10 kms of National Park/ sanctuary, recommendations of NBWL have to be obtained as per the Order of Hon'ble Supreme Court in I.A.No 460/2004.
- 14. This department does not undertake any responsibility regarding fixing of boundary pillars on the ground & correctness of the boundaries of the lease area shown on the ground with reference to lease map & other plans furnished by the applicant/lessee.
- 15. A yearly report should be submitted Regional. Controller of Mines, Indian Bureau of Mines, Bangalore, before 1st July of every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved Mine Closure Plan.
- 16. The contents of Circular No 2/2010 issued by the Chief Controller of Mines, Indian Bureau of Mines, Nagpur vide his letter No- 11013/3/MP/90-CCOM VOL-VII dated 06.04.2010 shall be complied with, within a period of six months from the date of approval of this document failing which the approval shall be deemed to have been withdrawn.



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- 17. Approval is strictly confined to the proposals contained within the mining leasehold demarcated as per lease sketch given by the joint survey team constituted by the CEC and duly authenticated by the State DMG. It does not convey approval to the proposals falling outside the Mining Lease boundary.
- 18. If anything is found to be concealed as required by the Mines Act in the contents of the Mining Plan and the proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect, further at any stage, if it is observed that the information furnished in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.

Encl: Two copies of the approved Mining Plan Including progressive Mine Closure Plan

Yours faithfully,

18 9 12

Controller of Mines (SZ)

Copy for kind information to:

- Sri B.S.Nargund, M/s Transit Surveys, No.121, "Survey House" 2nd Cross, Nehru Colony, Bellary-583 103, Bellary District, Karnataka State
- 2. The Chief Controller of Mines, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- 3. The Director, Department of Mines & Geology, Government of Karnataka, Khanija Bhavan, Race Course Road, Bangalore-560 0011, Karnataka State
- 4. The Dy. Director of Mines Safety, Bellary sub-Region, 31, Infantry Road, Cantonment, Bellary 584 104, Karnataka state along with a copy of approved Mining Plan (including Progressive Mine Closure Plan).
- 5. The Regional Controller of Mines, Indian Bureau of Mines, Bangalore, along with a copy of approved Mining Plan (including Progressive Mine Closure Plan) for further follow up.

Encl: As above.

(R.K.SINHA) Controller of Mines (SZ)

(1)

UNDERTAKING

The Mining Plan for Ramanadurga Iron Ore Mine (M.L. No. 2141) belonging to M/s. Sri. Kumarswamy Mineral Exports Pvt. Ltd., over an extent of 60.80 hectares in Ramanadurga hill range, Sandur Tq., Bellary Dist., Karnataka State has been prepared by M/s. Transit Surveys, Bellary.

We request the Regional Controller of Mines, region/Controller of Mines, Bangalore to make further correspondence regarding the Mining Plan with the Recognized Qualified Person at the following address,

M/s. TRANSIT SURVEYS, 18 A/121, "Survey House", 2nd Cross Nehru Colony, BELLARY - 583 103.

We hereby undertake that all the proposals made in the Mining Plan by the Recognized Qualified Person are deemed to have been made with the knowledge and consent of the Management of the company and senior officials at site and are acceptable and binding on the company in all respects.

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Date: 11.09.2012

Place: Bellary

(Shantesh Gureddi)

Managing Director.



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(2) CERTIFICATE

This is to certify that the Mining Plan including Progressive Mine Closure Plan in respect of Mining Lease (M.L. No. 2141) for an area of 60.80 Ha. in Ramanadurga hill range, Sandur Taluka, Bellary District of Karnataka State has been prepared in full consultation with me and we have understood its contents and agree to implement the same in accordance with the law.

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Date: 11.09.2012 Place: Bellary

Managing Director.

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(3)

CERTIFICATE

"The provisions of Mines Act, Rules and Regulations made there under have been observed in the Mining Plan including Progressive Mine Closure Plan of Ramanadurga Iron Ore Mine for an area of 60.80 Ha. of (M.L. No. 2141) belonging to M/s Sri. Kumarswamy Mineral Exports Pvt. Ltd., in Ramanadurga hill range, of Sandur Taluka, Bellary District of Karnataka State and where specific permissions are required, the applicant will approach the DGMS. Further, standards prescribed by DGMS in respect of Miners health will be strictly implemented

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Date: 11-09-2012

Place: Bellary

(Shartesh Gureddi) Managing Director. (4)

CERTIFICATE

This is to certify that the Progressive Mine Closure Plan in respect of Mining Lease Ramanadurga Iron Ore Mine (M.L. No. 2141) for an area of 60.80 Ha. in Ramanadurga hill range, Sandur Taluka, Bellary District of Karnataka State complies and has taken in to consideration all statutory rules, regulations, orders made by the Central or State Government, Statutory Organizations, Court etc. and wherever any specific permission is required we will approach the concerned authorities.

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

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

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Date: 11.09.2012

Place: Bellary

Managing Director.



UNDERTAKING

I under take that I shall with-in a period of 180 days from the date of approval of Mining Plan comply with the provision of Circular No. 2/2010, of Chief Controller of Mines, Indian Bureau of Mines, Nagapur, Vide letter No. 11013/3/MP/90-CCOM VOI.–VII dated 06.04.2010

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Date: 11 09.2012 Place: Bellary

(Shamesh Gureddi) Managing Director.



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UNDERTAKING

We here by undertake that all the proposals given in the R & R Plan prepared by ICFRE duly approved by CEC will be strictly implemented in a time bound manner, in respect of our Mining Lease Ramanadurga Iron Ore Mine (M.L. No. 2141) for an area of 60.80 Ha. in Ramanadurga hill range, Sandur Taluka, Bellary District of Karnataka State.

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Date: 11.09.12

Place: Bellary

(Sharttesh Gureddi) Managing Director.

CERTIFICATE



- 1) Certified that provisions of Mines Act, Rules and Regulations made there under have been observed in the Mining Plan including Progressive Mine Closure Plan and wherever specific permissions are required the applicant will approach D.G.M.S.
- 2) It is also certified that information furnished in the above Mining Plan are true and correct to the best of our knowledge.

Key Person.

For TRANSIT SURY

(C.D. Prabhakar Reddy) Authorised Signatory,

RQP/BNG/113/97/B.

(6)

CERTIFICATE



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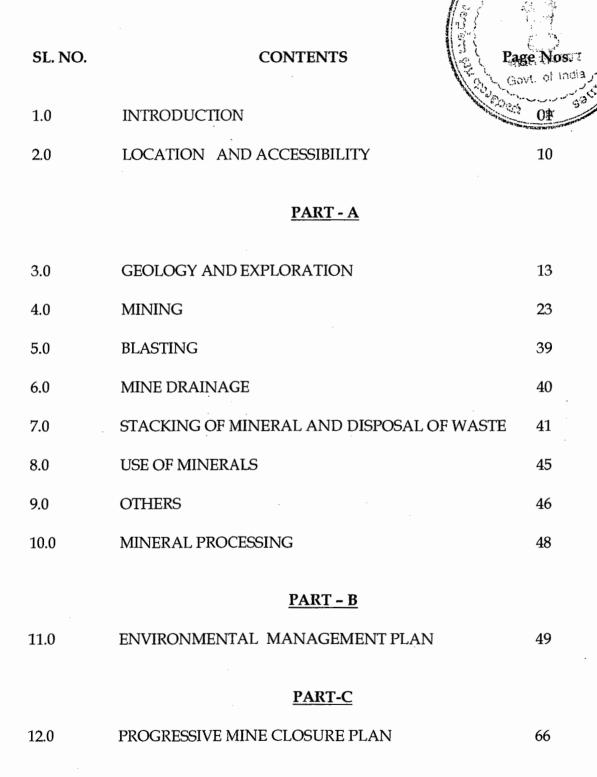
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This is to certify that the provisions of Mineral Conservation and Development Rules, 1988, have been observed in the Mining Plan including Progressive Mine Closure Plan of Ramanadurga Iron Ore Mine (M.L. No. 2141) for an area of 60.80 Ha. in Ramanadurga hill range, Sandur Taluka, Bellary District of Karnataka State of M/s Sri. Kumarswamy Mineral Exports Pvt. Ltd., and wherever specific permissions are required, the applicant will approach the concerned authorities of the Indian Bureau of Mines.

Key Person.

For TRANSIT SUR

(C.D. Prabhakar Reddy), Authorised Signatory, RQP/BNG/113/97/B.



LIST OF ANNEXURES

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Sl.No.	PARTICULARS	ANNEXUR
1.	COPY OF DMG LETTER CONVERTED INTO PVT. LTD. CO.	LS
1.	COPY OF MINING LEASE DEED	T SPA
2.	COPY OF CORRIGENDUM FROM GOVT. OF KARANATKA	II
3.	COPY OF SCHEME OF MINING APPROVAL LETTER	III
4.	COPY OF SCHEME OF MINING APPROVAL LETTER	IV
5.	COPY OF MODIFIED SCHEME OF MINING APPROVAL	. V
	LETTER	
6.	COPY OF MODIFIED MINING PLAN APPROVAL LETTER	VI
7.	COPY OF FOREST CLEARANCE LETTER	VIIA & B
8.	COPY OF ENVIRONMENT CLEARANCE LETTER	VIII
9.	COPY OF DMG NOTICE DATED 05.07.2012	IX
10.	COPY OF PHOTO ID	Х
11.	COPY OF RESOLUTION PASSED IN THE MEETING	XA
12.	COPY OF FORM – J SUBMITTED FOR RENEWAL OF ML	XI
13.	COPY OF RQP CERTIFICATE	XII
14.	CO-ORDINATES ISSUED BY DMG HOSPET BASED ON S	XIII
	& D REPORT CARRIED -OUT BY JOINT TEAM/CEC	
15.	PHOTOGRAPHS OF GROUND CONTROL POINTS &	XIV
	BOUNDARY PILLARS	
16.	COPY OF THE BORE HOLE LOG SHEETS	XV
17.	CHEMICAL ANALYSIS REPORTS	XVI
18.	ESTIMATION OF RESERVES AND WASTE	XVII
19.	FEASIBILITY REPORT	XVIII
20.	UNFC JUSTIFICATION ·	XIX
21.	PRODUCTION AND DEVELOPMENT PROGRAMME	XX
	COPY OF EXPLOSIVE LICENCE	XXI
	REPORTS OF CHEMICAL ANALYSIS OF ORE ,WASTE &	XXII
	SUB-GRADE OBTAINED FROM NABBL APPROVED	
	LABORATORY	
	COPY OF PROCESS FLOW CHART	XXIII
25.	ENVIRONMENTAL MONITORING DATA	XXIV
26.	PHOTOGRAPHS	XXV
27.	COPY OF BANK GUARANTEE	XXVI





PLATE. NO.	TITLE OF THE DRAWING	SCALE
1.	KEY PLAN	1:50,000
2.	LEASE SKETCH	1:3,960
3.	SURFACE PLAN	1:2,000
4.	GEOLOGICAL PLAN	1:2,000
5.	GEOLOGICAL SECTIONS	1:2,000
6A TO 6E	YEAR-WISE PRODUCTION &	1:2,000
	DEVELOPMENT PLANS	
7.	SECTIONAL VIEWS SHOWING THE	1:2,000
	PRODUCTION & DEVELOPMENT PLAN FOR	
	5 YEARS	
8.	ENVIRONMENT PLAN	1: 5,000
9.	CONCEPTUAL PLAN & SECTIONS	1:2,000
10.	PROGRESSIVE MINE CLOSURE PLAN	1:2,000
11.	ENVIRONMENT MANAGEMENT PLAN	1:2,000

MINING PLAN OF RAMANADURGA IRON ORE MINE (M.L. No. 2121) OF M/s. SRI KUMARSWAMY MINERAL EXPORTS BY T. L'ED., BELEARY (Submitted under Rule 24(A) of M.C. Rules, 1960)

1.0 INTRODUCTION:

M/s. Sri Kumarswamy Mineral Exports, Bellary possess a mining lease bearing. No. 2141 to mine iron ore in Ramanadurga Range, Santur Taluka, Bellary District, Karnataka State over an extent of 60.80 Ha. Earlier Sri Kumarswamy Mineral Exports was a partnership firm, now converted into a private limited company, by becoming existing partners as directors, the same has been considered by the Government of Karnataka, which is conveyed by the Department of Mines and Geology, Bangalore vide letter no. DMG/RML-2141/11-12/5270 dated 23.07.2011 and the same also been circulated to the concerned Departments. Copy of the said letter is enclosed vide Annexure-I.

The lease was granted originally for a period of 20 years w.e.f. 24.01.1992 over an area of 82.55 Ha. Copy of lease deed is enclosed vide **Annexure-I A**. As per the condition laid in the Forest Clearance, Govt. of Karnataka issued a corrigendum limiting the extent of mining lease to 60.80 Ha. Copy of the same is enclosed vide **Annexure-II**. Accordingly, only an area of 60.80 Ha. is handed-over to the lessee. The balance area of 21.75 Ha. is not handed over to the lessee at any point of time, which is virgin. The mining operations were commenced from November 1996.

For TRANSIT SURVEYS

B.S. NARGUND 11/9/12 Key Person

ROP/BNG/113/97/B

For TRANSIT SURVEYS

C.D.Prabhakar Reddy, Authorised Signatory. RQP/BNG/113/97/B This Mining Plan is approved subject to the conditions / stipulations Indicated in the Mining Plan approval letter No. KMT. BLR IMP R=361-67

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Date.18/9/2012

জান নিয'নফ (द.आं) Controller of Mines (S. Z.) भारतीय खान ब्यूरो

भारतीय खान ब्यूरी Indian Bureau of Mines बेंगलर / BANGALORE Mining plan is prepared for an area of 82.55 Ha. and approved vide letter No. 279/97/89/BNG dated 07.03.1990. Subsequently, Scheme of Mining was approved vide letter No. 279/97/89/BNG dated 13.05.1999. Copy of the approval letter is enclosed vide Annexure-III. Further, Schame of Mining was approved for a production capacity of 0.48 million tonnes per annum vide letter No. MP/BLR/Fe-33-SZ dated 06.06.2003. Copy of the approval letter is enclosed vide Annexure-IV. Subsequently, Modification in the Approved Scheme of Mining was prepared for the production capacity of 2.0 mtpa and approved vide letter No. MS/BLR/Fe-33-SZ dated 18.04.2006. Copy of the approval letter is enclosed vide Annexure-V. Further, Modifications in the Approved Mining Plan was prepared for an area of 60.80 Ha. and approved vide letter no. MP/BLR/Fe-145-SZ dated 17.08.2009. Copy of the approval letter is enclosed vide Annexure-VI.

Table-1: The details of approved Mining Plan/Schemes, period and validity are tabulated as under.

Sl.	Mining Plan/Scheme	Period	Valid upto
No.		,	
1.	Mining Plan	1991-92 to 1997-98	31st March 1999
2.	Scheme of Mining	1998-99 to 2002-03	31st March 2003
3.	Scheme of Mining	2003-04 to 2008-09	31st March 2009
4.	Modifications in the approved Scheme of Mining	2006-07 to 2008-09	31st March 2009
5.	Modifications in approved Mining Plan	2009-10 to 2011-12	23.01.2012 (i.e., upto currency of lease period)

Forest clearance is accorded only for 60.80 Ha. in two stages (for 30.80 Ha. on 08.11.1994 and remaining 30 Ha. on 14.12.2006). Copies of the forest clearance letters are enclosed vide **Annexure-VII A & B.** At the time of granting Forest Clearance for additional 30.00 Ha. condition was imposed to get the necessary modification in the mining lease under MMRD Act. Accordingly, Govt. of Karnataka issued a corrigendum limiting the extent of mining lease to 60.80 Ha.

Environmental Clearance was obtained for production of 2.0 mit of from or and additional 0.83mtpa of sub-grade ore dispatch from the stock on 02.11.2007 Copy of the Environmental Clearance letter is enclosed **Annexure-VII**

No any pending court cases against this mine.

The lessee seeks renewal of mining lease for further period of 20 years or more as applicable under the rules and regulations considering the ore reserves proved by exploration in the lease area. Accordingly mining plan for the period 2012-13 to 2016-17 was submitted, under rule 24 (A) of MCR 1960, for production of 2.00 MTPA. of iron ore for approval, vide our letter dated 18.06.2012.

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Subsequently, the Mining Plan was returned for want of fixation of permissible production of mineral and submission of Reclamation and Rehabilitation Plan prepared by ICFRE and approved by CEC.

The Hon'ble Supreme Court of India, has directed the Government of Karnataka to formulate Reclamation and Rehabilitation Plan (R & R) for mines located in Bellary, Chitradurga and Tumkur Districts. The study was assigned to ICFRE, Dehradun.

Accordingly, ICFRE has submitted the R & R, recommended for annual production of iron ore based on the total reserves, dump capacity and road capacity at 1.20, 1.10 and 0.64 MTPA respectively. The annual production of iron ore is fixed at 0.64 MTPA, depending on the road carrying capacity, which is approved by the CEC and conveyed to Govt. of Karnataka vide letter No. 2-61/CEC/SC/2012 dated 04.07.2012. Accordingly, the Director, Department of Mines and Geology, Bangalore has issued a notice No. DMG/R&R/2012-13/9 dated. 05.07.2012, with a direction to obtain approval of Mining Plan for Annual Production of iron ore of 0.64 MTPA, copy of the notice is enclosed vide Annexure - IX.

Table-2: Summary of the salient features of the approved Reclamation & Rehabilitation (R & R) plan giving clear picture for the envisaged proposals is as follows.

		As per approved R & R Plan by CEC1. of india							
SI.	Description		As per a	approved R & R Plat	py CEG.				
No.					50				
1.	Exploration	1	-	on must be taken	up on priority for				
		realistic re							
2.	Mineral	Category	UNFC	Geological reserves	Mineable reserves				
}	reserves		Code	in million tonnes	in million tonnes				
		Proved	111	17.6	17.6				
		Probable	121	4.31	4.31				
<u> </u>		Total		23.92	23.92				
3.	Life of the	Life of the	e deposi	it considering the m	ineable reserves of				
	deposit at	23.92 million tones, will be about 38 years.							
	present								
	production								
	limit								
4.	Production	The Produ	ction cap	pacity based on reserv	ves, dump and road				
	capacity	capacity ha	is been e	stimated 1.20 million	tonnes, 1.11 and 0.64				
		million tonnes respectively. Considering the present available information or facilities, the annual production limit of 0.64 million tonnes based on road capacity is considered and							
	·								
		approved, which is minimum among the three criteria.							
5.	Location of	1	_	ining pit of 28.00 Ha.					
	working	1	_	he plan period. It is					
			-	be started with pit					
.		_		ultimately make th	~ 1				
		systematic	ally dev	veloped this pit ha	s the potential to				
		produce 2	2.0 mtpa	of ROM as 10 be	enches are already				
		formed in	this pit.						
6.	Disposal of	Systematic	dumpi	ng maximum heigh	t up to 60m, with				
	waste	over all sl	ope 23°	to 30°, terrace slope	33° to 44°, average				
				, width of terraces t					
		1	_	bdivided into small					
		cutting of							
7.	Location of			earmarked over exi	sting dumps along				
	disposal of	ı		e lease boundary D1					
	waste	l		remaining capacity					
				nillion tonnes.					

					Control of the second
Sl. No.	Description			R Plan by CEC	7.53
8.	Reclamation	Inside the lease area	To be	Out side the	To be
	&		complete	lease area	completed 2
	Rehabilitati	Retaining walls -	d with-in First 6	Carling	with-in
	on	3 nos	years	Guilly plugs Govi.	of India
	programme	5395mX1.5mX3m	years	7mX4mX1m	Sagin
		Drains - 4 nos	First	Check dam	Eirst year
		3450mX2mX1m	year	3 nos	
				20mX4mX2.5m	
		Settling tanks -	First	Retaining wall	First year
		9 Nos. –	year	- 480m length	
		30mX15mX3m			
	Ì	Green belt	7 years		
	.	development on safety			
	į	zone area 2.49 Ha.			
	ĺ	[Afforested area,	4 years		
		Plantation on Dump,	17 years		
		Strengthening and gap			
		plantation]	11 years		

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Indicative cost summary of proposed R & R plan and implementation schedule of mitigation/ Engineering measures along with tentative cost are tabulated below.

Table -2A: Indicative Cost Summary of the Proposed Plan

Sl. No.	Item of work	Amount in Lac.
1	Stabilisation of dump and	360.01
	surface water management	
3	Green belt	6.40
4	Soil amendments	5.00
5	Afforestation	98.11
6	Social Management Plan	10% of the annual sale proceeds from the
1	(SMP), Biodiversity	mines, in respect of "Category: A" mine,
	Management Plan,	may be transferred to SPV for the purpose
	Monitoring and	of taking up various ameliorative and
	implementation of R&R	mitigative majors in district Bellary or as
	plan, capacity building,	decided by task force to be constituted as
	infrastructure etc.	per the recommendation of Macro-level
		EIA report and the direction of honorable
		Supreme Court of India for implementation
		of R&R plan and EMP
	Total	469.52 lac excluding cost
		serial no. 6 proposed above

Reclamation & Rehabilitation programme as per approved R & R plan:-

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Various engineering and biological measures are proposed in the approved R & R plan, to mitigate the affects from mining and related activities.

ERING MEASURES FOR M/s. Shri. KUMARSWAMY MINERAL EXPORTS, Table-11: Implementation schedule of mitigation/engineering measures are tabulated below.

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	10th						1	1	_	\downarrow	1	1	1	\downarrow	-		-	\downarrow		_	-			-	_
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In light of the above, this mining plan is being submitted under rule MCR 1960 for the period of 2012-13 to 2016-17.

a) Name and Address of the Applicant:

M/s. Sri Kumarswamy Mineral Exports Pvt. 170

No. 54/J, III Main, Parvathi Nagar, Bellary-583103, State: Karnataka,

Phone No.: +91 8392 267484/267069,

Fax No.: +91 8392 266767,

Email: kumnex@rediffmail.com

b) Status of the Applicant:

Private Limited Company, Name and Address of the Directors are as follows;

Managing Director 1.

Sri. Shantesh Gureddi,

S/o. Shiva Shankara Gureddi,

No. 2/1, 1st floor, 1st cross, Yamunabai Road,

Govt. of India

Madhavanagar, Bangalore-560 001.

Phone:-+9180 22862954,

Email: kumnex@rediffmail.com

Copy of passport issued by the Regional Passport office, Bangalore and latest telephone bill towards photo ID and present & permanent address proof of the Managing Director is enclosed vide **Annexure-X**. A copy of the extract of Board resolution passed by the board of Directors, authorizing Sri. Shantesh Gureddi, Managing Director, to sign all statutory documents on behalf of M/s. Sri Kumarswamy Mineral Exports Pvt. Ltd. is enclosed as **Annexure-XA**.

No any other mining leases held by the company, with-in or out side the state.

Table-3: The list of other Directors and their phone contact numbers are as under.

Sl. No.	Name and address	Phone contact number
2.	Sri. Ravindranath Alva,	9448136900
	S/o. Kampanna Alva,	1
	Anugraha, Inna Reddy Layout,	
1	Vasavi School Road,	
	Bellary-583 103.	

	•	खान ब्यूरो
Sl. No.	Name and address	Phone contact number
3.	Sri. T. Bhavani Prasad,	//9880023889
	S/o. T. Thimmappa,	1/2/
	Plot No. 16, 2 nd cross,	
	Renukacharya Nagar,	NE \ maximax DE
	Bellary-583 103.	Govt. of India
4.	Smt. H. Sarvamangalamma,	080-26589622
	W/o. H. Nagana Gouda,	W 300
	Door No. 18A/100, 3rd cross,	TRACE OF STATE OF STA
	Nehru colony, Bellary-583 103.	
5.	Smt. H. Nagarathna,	9845867691
	D/o. H. Nagana Gouda,	
	Door No. 18A/100, 3rd cross,	
	Nehru colony, Bellary-583 103.	
6.	Smt. Renuka Devi,	9448060607
	W/o. Sri. T. Bhavani Prasad,	
	Plot No. 16, 2 nd Main, 2 nd cross,	
	Renukacharya Nagar, Bellary-	
	583 103.	·
7.	Smt. Jyothi S. Gureddi,	9844005737
	W/o. Sri. Shantesh Gureddi,	
	No. 516/4, 10th Cross, RMV	
•	Extension,	
	Sadashiva Nagar,	
	Bangalore - 560 080.	
8.	Smt. Uma R. Alva,	9880024399
	W/o. Sri. M. Ravindranath Alva,	1
	Anugraha, Marry Reddy Layout,	
	Infantry Road, Cantonment,	
	Bellary - 583 104.	

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c) Mineral(s) which are occurring in the area and which the applicant intends to mine:

The mineral included in the mining lease deed is iron ore, accordingly iron ore is proposed to be mined during the plan period.

d) Period for which the mining lease granted/renewed/proposed to be applied:

Renewal of mining lease is applied for 20 years or more w.e.f. 23.01.2012, as applicable under the existing rules. Copy of the Form - J is enclosed as Annexure - XI.

e) Name & Address of RQP's Preparing the Mining Plans

Address : M/s. Transit Surveys.

121, "Survey House", 2nd Cross, Nehru Colony,

Bellary - 583 103, Karnataka

Phone : 08392 – 255526

Fax : 08392 - 254773

E-mail : transitsurveys@gmail.com Regn. No. : RQP/BNG/113/97/B

Date of grant/renewal: 06.03.1997 Valid upto : 25.08.2021.

Copy of the RQP certificate is enclosed vide Annexure - XII.

f) Name and Address of the prospecting agency:

M/s. Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

No. 54/J, III Main, Parvathi Nagar,

Bellary-583 103, State: Karnataka,

Phone No.: +91 8392 267484/267069,

Fax No.: +91 8392 266767,

Email: kumnex@rediffmail.com

g) Reference Number & date of consent letter from State Government:

The Mining Plan is submitted for renewal of mining lease under Rule 24(A) of MCR 1960.

2.0 LOCATIONS AND ACCESSIBILITY:

a) Details of the Area:

The M.L. area is demarcated on the Topo-sheet of Survey of India and enclosed vide Plate No. 1 as Key Plan. Sketch of the area finalized by the Joint team/CEC and issued by the Deputy Director, Department of Mines and Geology, Hospet is enclosed vide Plate No. 2. and the list of latitude and longitude of all the corner points of the lese area, along with copy of Mahazar based on the survey and demarcation carried-out by the Joint Team/CEC is enclosed as Annexure-XIII.

1. District & State : Bellary & Karnataka

2. Taluka : Sandur

3. Village : Dharmapur, Yeshwanthnagar

4. Khasara/Plot Details/ : Ramgad Range, MINTEN STATES

Block Range/Felling series etc.

Ramanadurga Bloc

5. Lease Area (Hectares)

: 60.80 Ha.

6. Whether the area is recorded to be in Forest (Please specify

whether protected, reserves etc.): Yes, Reserved Forest.

7. Ownership/Occupancy : State Forest Department

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

The nearest village is Dharmapur which is about 2.75 km (aerial) towards Eastern direction. The mine is located at a distance 4 kms from stage high way SH 40, which is further 4 km from Sandur. The nearest railway siding facility is at Yeshwanthanagar situated at a distance of 7.5kms from the mine site.

- 9. Toposheet No. with latitude and longitude: Ramanadurga iron ore mine falls on Survey of India Topo-sheet No. 57A/8 and 57A/12. The area is bounded in between Latitudes N15° 04′ 07.1″ to 15° 04′ 58.1″ & Longitude E76° 29′ 57.2″ to 76° 30′ 45.2" (Datum: WGS-84).
- 10. Land use pattern: (Forest/Agricultural/Grazing/barren etc.): Table-4: Block wise, village wise, survey number wise forest area and non-forest area is shown in the below mentioned table.

Block	Village	Survey	Laı	nd use
		no.	Forest	Non-forest
Ramanadurga	Dharmapur,		60.80	
_	Yeshwanthnagar		Ha.	

As per the CEC, approved map the encroachments are as under,

Mining Pit : 0.27 Ha. OB dumps : 2.67 Ha. Others : 5.04 Ha. Total area : 7.98 Ha. existing and proposed access routs. It is preferred that the area to be marked on a Survey of India Topographical map or a Cadastral map of Forest map as the case may be. However if none of these are available, the area should be shown on an accurate sketch map on scale of 1.5000. Key Plan of the area is enclosed showing the existing roads, halfah, forestland etc., vide Plate No. 1. Ground control points are fixed at permanent point on the ground and the same are shown on the Surface Plan vide Plate No. 3 and Photographs Ground control points and Boundary pillars are enclosed vide Annexure-XIV.

Table-4A The details of ground control points are tabulated below,

CGP No.	Particulars	Longitude - Latitude	Distance and direction w.r.t. corner pillar (13)	RLs
1	GTS	N 15° 04′10.3″ E 76° 30′47.2″	103m, NW	930 MSL
2	Water tank	N 15° 04′01.3″ E 76° 31′01.5″	248m, SE	853 MSL
3	Check dam	N 15° 03′49.3″ E 76° 31′10.5″	856m, SE	666 MSL

Contd...

PART - A

3.0 GEOLOGY AND EXPLORATION:

a) Briefly describe the Topography and General Geology and Local / Mine Geology of the Mineral deposit including drainage pattern:

1. Topography:

Buffer zone:

The buffer zone area is hilly in terrain and attains an altitude between 530m to 1030m above M.S.L. The area has got dendritic pattern of drainage.

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The terrain is hilly with alternate valleys. The hills contain erosion resistant rocks like Banded Hematite quartzite (BHQ), Banded Hematite Jasper (BHJ), Granites, Argillites etc. Some steep escarpments are encountered in these hill ranges.

Core zone:

The lease area covers a narrow plateau at the hill ridge and the NE slope of Ramanadurga range also.

The highest and lowest elevations in the lease area are 1003 MSL and 857 MSL respectively. For survey purpose, GTS with 999.00 MSL and 930 MSL are considered, which are outside the lease area towards Southern direction and location is shown on Surface Plan vide Plate No. 3.

The area is surrounded by forestland, leased to;

North West - M.L. Area of ZTC South East - M.L. Area of VESCO North & North - East - FOREST LAND

There are no perennial sources of water with-in the lease area. However, during monsoon period the rainwater drains through the natural valleys on the NE & SW slopes.

2. General Geology:

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The Bellary - Hospet region forms part of the Sandur Schist Belt's referable as, the "Dharwars", a group of Precambrian schistose rocks of Mysore. The lithological units include greenstones which are metamorphosed basic igneous rocks occupying the valley regions, with Phyllite-Quartzite's forming the canoe-shaped amphitheater of balls, trending NNW-SSE and enclosing Sandur. The Phyllites are locally Shaly and the Quartzite's are of the nature of Banded Hematite Jaspers, and Banded Hematite Quartzite's, inter bedded with each other. The Banded Hematite Jaspers, the important source rocks for the Iron ores in the area are prominent in the Northern and Western part of the ranges, whereas the associated Shale's become prominent in the Southern and Eastern parts of the area. The Iron ores form a capping over the Quartzite's and Shale's and overlie a sequence of Manganiferous phyllitic rocks. Lateritisation is widespread in most of the flat-topped ridges. Iron ore deposits of NEB range form part of the Bellary-Hospet group of Iron ore deposits and occupy the Northern tip of Sandur Synclonorium.

This is the smallest of the three basins and covers an area of just 960 km². Structurally highly disturbed and squeezed out of shape by the intrusion of younger granite. Shelf facies as in the other basins are confined to the western margin. The basin is. known for its rich accumulation of both iron and manganese ore and characterized by well-developed mafic magmatism and strong development of manganiferous greywacke, phyllite and numerous bands of banded magnetite and haematitie quartizite Basement-cover relations are obscured because of intense deformation and intrusion by younger granite.

Total thickness of the sequence is estimated to be as much as 15 km which is the result of thickening by thrusts. The Sandur valley discontinuity is interpreted as a thrust separating the Raman Malai Formation from overlying Donimalai Formation.

Six types of granite have been identified as intruding the schist belt. All of them are stated to have affinity with I-Type of granites of collision zones. These are considered to be components of major batholiths for which the name *Dharwar Batholith* has been proposed. (Source: Approved Reclamation and Rehabilitation Plan prepared by ICFRE, Dehradum). India

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3. Local/Mine Geology:

The general sequence of rock formations found in the area are, as, given below:

- -- Soil Cover
- -- Ferruginous Shales/Phyllites
- -- Iron ore formation
- -- BHO
- -- Shale/phyllite

Soil cover:

Entire area is already broken, therefore there is no soil cover existing in the lease area and the iron ore bearing zone is covered by hard laterite.

Ferruginous Shales and Phyllites:

Ferruginous shales are seen/exposed at many places in the cuttings, or at the contact with ore bands and over a good strike length in the reef ore workings. The shales, in general strike in NW-SE direction with steep to moderate dips towards South-West direction.

Shales are soft to medium hard. The colour varies from reddish to brown. At places, shales appear to have been metamorphosed into Phyllites.

Iron ore formation:

In general, the strike of the iron ore formation is due NW-SE with high angle of dips towards North-East, with an amount of dip varying from 53° to 60°. Intermittently, at places where ore is contacted with BHQ, shale, etc., dip angle is observed from 70° to 75°. at The trend of the deposits i.e., strike direction and amount of dip is shown on the Geological Plan enclosed vide Plate No. 4.

Iron ore is reddish brown to steel gray in colour, soft and friable, but at places is laminated and brittle. Both H/W and F/W are of shales/phyllites.

The detailed survey, present exposures and the drilling carried-out in the mine revealed that the ore body is existing upto 900m MSL and is likely to exist further down. However, ore body persistence is considered based on the exploration carried-out from 2002 to till date and depending upon topography for marking ultimate pit limit.

Geological plan and sections are enclosed vide Plate No. 4 & 5 respectively.

(iv) Drainage Pattern:

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There are no surface water sources with-in the core zone. The drainage pattern of the area is sub-dendritic in nature. During monsoon the rain water is drained through the natural valleys on the NE slope.

b) The topographic plan of the lease area prepared on a scale of 1:1000 or 1:2000 with contour interval of 3 to 10 m. depending upon the topography of the area should be taken as the base plan for preparation of geological plan. The details of exploration already carried-out including evidences of mineral existence should be shown on the geological plan:

Surface plan of the lease area is prepared on 1: 2000 scale with 5m contour interval and enclosed as **Plate No. 3** which is taken as base plan for preparation of Geological plan vide **Plate No. 4**. The geological plan shows the delineated ore zone.

The Details of exploration already carried-out:

Exploration has been carried-out with the help of 16 core bore holes with a cumulative depth of 914.30m upto 2010-11 and one bore hole (DTH) drilled recently for a depth of 52m. Exploration in grid pattern is being progress with-in the mining lease area to asses the quality & quantity of the reserves. The core samples are analysed for Fe%. showing the details of bore holes with depth is enclosed vide **Annexure - XV**. Copies of

chemical analysis reports obtained from NABL accredited is enclosed vide.

Annexure - XVI. Locations of the drilled core boreholes are shown on the Geological Plan vide Plate No. 4.

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c) Geological sections should be prepared at suitable intervals on a scale of 1:1000 /1: 2000:

Geological plan and cross sections of the lease area is prepared in 1:2000 scale at an interval of 100m. The limit for estimated proved reserves, which are placed under 111 category of UNFC is marked distinctly on the Geological Sections. The other categories of estimated reserves for probable mineral reserves (122) and inferred mineral resources (333) under UNFC are also indicated for their respective limits on the section and enclosed vide Plate No. 5.

d) Broadly indicate the year-wise future programme of exploration, taking into consideration the future production programme planned in next five years as in table below:

The entire mineralized/lease area will be explored in detail during the current plan period as per the Ministry's guidelines. During the plan period it is proposed to drill 42 vertical core boreholes, to explore entire area including the dumping area and ore body at depth and also to know the quality & quantity of ore. Location of the proposed core boreholes are shown on the Geological Plan vide Plate No. 4.

Table-5: Year-wise proposals are as follows.

PERIOD	BOREHOLE ID	DEPTH (M)	CO-ORDINATES (WGS-84)	
			NORTHING	EASTING
2012-13	PBH-1	60	1666672	662479
	PBH-2	60	1666772	662379
**.4	PBH-3	60	1666872	662379
	PBH-4	60	1666872	662279
	PBH-5	60	1666972	662280
	PBH-6	60	1666973	662180
	PBH-7	60	1667073	662180
	PBH-8	60	1667073	662080
	PBH-9	60	1667174	662080
	PBH-10	60	1667174	661981
	PBH-11	60	1667273	662081
	PBH-12	60	1667274	661981

				TES ANCS AN
PERIOD	BOREHOLE ID	DEPTH (M)	CO-ORDINALES/(VGS-64)	
		-	NORTHING	EASTING
2013-14	PBH-13	60	1667374	661981
	PBH-14	60	1667473	661982
	PBH-15	60	1667374	661882
	PBH-16	60	1667474	661882
	PBH-17	60	1667574	661882 India
	PBH-18	60	1667475	661782
	PBH-19	60	1667575	661782
2014-15	PBH-20	60	1667575	661682
	PBH-21	60	1667875	661383
ļ	PBH-22	60	1667876	661283
	PBH-23	60	1667776	661283
	PBH-24	60	1667775	661383
	PBH-25	60	1667675	661383
	PBH-26	60	1667775	661483
	PBH-27	60	1667675	661483
	PBH-28	60	1667575	661483
	PBH-29	60	1667575	661582
	PBH-30	60	1667548	661482
	PBH-31	60	1667475	661682
	PBH-32	60	1667375	661682
	PBH-33	60	1667275	661681
	PBH-34	60	1667375	661781
	PBH-35	60	1667274	661781
	PBH-36	60	1667172	661881
	PBH-37	60	1667174	661780
	PBH-38	60	1666973	661980
	PBH-39	60	1666772	662279
	PBH-40	60	1666672	662279
	PBH-41	60	1667174	661781
	PBH-42	60	1666571	662478

Note: Depth of drilling will vary depending on intersection of ore and touching the footwall subject to maximum depth of 60m.

e) Indicate geological and recoverable reserves and grade, duly supported by standard method of estimation and calculations along with required sections, giving split-up of various categories i.e., proved, probable, possible. Indicate cut-off grade. Availability of resources should also be indicated for the entire leasehold:

Table-6: The details of reserves/resources furnished in the last modified approved Mining Plan (2009-10 to 2011-12) and depletion there after are as under.

Category	Geological reserves	Mineable Reserves	As per UNFC	N.
	(tonnes)	(tonnes)	classification	: }
Proved	215,68,476	215,68,476	111	75
Probable	43,11,746	43,11,746	121	9
Possible	55,25,838		333 (Inferred Mineral Resource)	
Total	314,06,060	258,80,222	Maria	٠

Depletion of mineable reserves from 10.02.2009 to 20.09.2010, is 31,3353 tonnes and from October 2010 to May 2011 is 15,03,151 tonnes.

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The estimation of ore reserves is made afresh as per UNFC guidelines using the cross sectional method considering the exploration carried-out with 16 core bore holes & 01 bore hole (DTH) and their logs details. The geological cross sections are prepared at an interval of 100mts, across the strike of the ore body. Experience gained in this type of deposits, adjoining mines in this sector, core borehole data, actual mining projection of surface geology and bore holes data on the sections and the persistence of ore body upto the depth of drilled bore holes is adopted for preparation of geological cross sections. Accordingly the reserves proved by core bore holes are kept under proved category, the probable reserves are estimated by taking 200m lateral influence between the core bore holes and exposed pits and balance reserves upto drilled bore holes depth are placed under resources. The area of individual litho-unit in each cross section is measured & multiplied with sectional interval and tonnage is arrived by multiplying with its bulk density. The bulk density considered as 3.2 t/cum for ore and 2.75 t/cum for BHQ and lateritic lumpy ore, and 2.50 t/cum for intercalated waste from BHQ, 2.20 t/cum for intercalated waste from ore, lateritic lumpy ore and 2.20 tonnes/cum for OB waste, as per field tests and experience gained by actual mining. Due to present market trend and based on the previous workings 90% recovery of ore from ore zone, 60% recovery of ore from lateritic lumpy ore and from BHQ is considered.

Detailed section-wise/category-wise area, volume, topinage, calculation geological reserves and resources enclosed vide Annexure-XVII

The updated Geological Plan and Cross Sections area enclosed vide Plate)

No. 4 & 5 respectively, duly proposed, considering the exploration carried-out along with the exposures observed in the field and the categorization is also depicted in the Cross Sections.

f) Indicate mineable reserves as per the proposed mining parameters:

Geological Plan and Cross Sections are updated and enclosed vide Plate No. 4 & 5. In view of changes in the threshold value of Iron Ore i.e. 45% Fe content, the exploration carried-out in the mining lease area with the help of core boreholes and actual mining, the reserves are re-estimated.

Table-7: The category-wise updated reserves as on 01.04.2012 are indicated in the table below:

Classification	UNFC	Geological Reserves
Classification	Code	(Tonnes)
(1)	(2)	(3)
A. Mineral Reserves		
1) Proved Mineral Reserve	111	304,383
2) Probable Mineral Reserve	122	7,599, 17 1
Total Mineral Reserves		7,903,554
B. Remaining Resources		
3) Feasibility Mineral Resource	211	
4) Pre-feasibility Mineral Resource	222	
5) Measured Mineral Resource	331	
6) Indicated Mineral Resource	332	- 1
7) Inferred Mineral Resource	333	38,786,961
8) Reconnaissance Mineral Resource	334	
Total Remaining Resources		38,786,961
Total (A+B)		46,690,515

The Chemical analysis reports obtained from NABL accredited are enclosed as Annexure-XVI. Detailed section-wise estimation of reserves and waste is enclosed as Annexure- XVII. The different grades of iron ore available in this mine is varies from 45% to 66% Fe. The cut-off grade from this mine is 45% Fe.

Justification for UNFC Classification:

Geological mapping on 1:1000 scale was made and submitted in 1: 2000 scale. Prepared the geological base map showing the geological features, extent of deposit, structure, location of working pits and drilled bore holes. Sampling and analysis are done in a systematic grid pattern.

The ore body is exposed in the 3 working pits upto 922m RL, and data of drilled 16 core bore holes and one bore hole (DTH) are considered for drawing Geological Sections and collected abitic geo-environmental parameters.

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Based on the degree of exploration, the reserves and resources are classified, according to UNFC guidelines.

Proved Mineral Reserves (111): The mineralized area has been demarcated based on the results of sub-surface exploration data in grid pattern not exceeding 100m spacing. Depth limit considered up to bottom of bore holes drilled. Bulk density and recovery factor is adopted based on the field tests conducted for different types of ores. Cut off grade is considered as per threshold values. Chemical analysis reports are obtained from NABL accredited Laboratory, accordingly these reserves are placed under geological axis G1.

These reserves are completely mineable by open cast mechanized mining method with out any hindrances. Hence, the Feasibility Axis is considered as F1.

Based on the present market condition, demand for iron ore and considering the capital cost, production & transportation cost, royalty & other taxes, the availability of financing & profits, the mining is technically and economically viable. Hence, economical Axis is considered as E1.

Probable Mineral Reserves (122): The mineralized area has been demarcated based on the results of sub-surface exploration data in grid pattern not exceeding 200m spacing. Depth limit considered up to bottom of bore holes drilled. Bulk density and recovery factor is adopted based on

the field tests conducted for different types of orest Cutroff grade is considered as per threshold values. Chemical analysis reports are obtained from NABL accredited Laboratory, accordingly these reserves are placed under geological axis G2.

Since, these reserves are considered under probable category; the feasibility of these reserves entirely depend on the confirmation of the availability, hence feasibility axis for these reserves are considered as F2.

Based on the present market condition, demand for iron ore and considering the capital cost, production & transportation cost, royalty & other taxes, the availability of financing & profits, the mining is technically and economically viable. Hence, economical Axis is considered as E1.

Inferred Mineral Resource (333)

The following reserves/resources are kept under this category.

- (i) The ore reserves which are locked up under the inactive waste dump area placed under this category, where the dump handling is not proposed during the plan period.
- (ii) The mineral reserves likely to be blocked in 7.5m safety zone, to maintain ultimate pit and lateral extension beyond the extreme bore hole are also classified under this category.
- (iii) The projection of resources upto the depth of drilled bore holes are placed under this category, by considering the Regional Geology and exploration carried-out by various lessees and agencies on regional basis.

The above reserves are shown on geological cross-sections enclosed as **Plate No. 5**. The grade of the iron ore varies from 45% to 66% Fe. Copy of Feasibility Report is enclosed vide **Annexure-XVIII**. The detailed justifications for assignment of codes as per the guidelines given for UNFC in MCDR 1988 is enclosed vide **Annexure-XIX**.

End use Grade with Analysis:

Nature and occurrence of ore at this mine is suitable to produce lumps and fines for steel making. Hence, it is supplied to the different steel manufacturing industries and exports (as per Government Policy). The end use grade is +56% Fe.

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4.0 MINING:

a) Briefly describe the existing/proposed method for developing/working the deposit with all design parameters:

At present, the mine is being operated by open cast mechanized method. There are three pits in operation are each in block A, B and C.

Table 7A: Details of the Pits / Benches in RIOM of SKME, ML No.2141

Block	Dimension (m)	Height	Width of	No of	RL from	RL from
		(m)	the Bench	benches	top bench	bottom
			(m)		(m)	bench (m)
Α	Length - 900	7.50	10.0	09	990	922
	Width - 140					
	Depth - 67					
В	Length - 500	7.50	10.0	06	993	953
	Width - 252					
	Depth - 39					
С	Length - 450	6.50	10.0	08	999	952
	Width - 265					
	Depth - 49					

Highest point in the lease area-999RL. Highest bench level of working-993RL Lowest bench level of working-920 RL and, 954RL

Beyond cross sections O-O' towards south eastern lease boundary though, two bore holes are drilled it comes under G3 scale of exploration as per UNFC guidelines, more over at present there is no common boundary working permission on south-eastern side of the lease area, to work upto the lease boundary. Accordingly, the workings are proposed in pit A where in the reserves are classified under G1 & G2 category as per UNFC guidelines with an intention to merge the pits A & B, as one pit by the end of current plan period as suggested in the approved R & R. From plan period on wards complete exploration will be planned, by then

exploration in the pit A will be completed as per the proposal given in the approved R & R.

There are two waste dumps along the Northern boundary of the lease area, indicated as D1 and D2 on Surface Plan (Refer Plate No. 3), whose details area as under.

Table-7 B

Dump No.	Area in Ha.	Volume in Cum	Location
D1 (Inactive)	1.54	1,17,285	N 1667390-1667658
			E 662055-661835
D2 (Active)	3.02	1,26,300	N 1666970-1667095
,	,		E 662180-662304

Note: Over the D1, sub-grade mineral is stacked hence this area is covered in SG1 area.

Part of the dump D1 is out side the mining lease area, also identified and reported in the CEC sketch. This dump is stabilized and the height is less than 26m and entire dump area is afforested by species like Agave, Kamara, Semethangadi and the bottom of the dump is protected by retaining walls.

There are two sub-grade mineral stacks, SG1 & SG2 covering surface area of 5.02 Ha. marked on the Surface Plan (refer Plate No. 3), whose details are as under,

Table-7 C

Sub-grade stack No.	Volume in Cum	Location
SG-1	4,61,052	N 1667375-1667580
		E 661930-661820
SG2	3,81,349	N 1667051-1667250
		E 662060-662256
Total	8,42,401	

The mine faces have been opened along the top of the hill to the entire strike length of the ore body. The benches are worked across and along the strike. Present position of the working faces are shown on surface plan and enclosed as Plate No. 3.

It is proposed to work the iron ore deposit by open cast method, with mechanized methods. During ensuing mining plan period, it will be worked upto 922m RL. The entire strike length will be opened and faces advanced across and along the strike with bench height of maximum 7.5m and working bench width will be maintained more than 9m for deploying heavy mining machinery and drilling equipments, the over all pit stope of 60° will be maintained during the plan period. The road gradient of 1 in 16 will be maintained as per MMR 1961.

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Since the reef ore body is soft in nature, the mining operation involves mainly excavation using excavator. This will be transported directly to the designated place for blending. Drilling and blasting will be carried-out in hard horizon. Blasting will be done using 20% slurry and 80% ANFO, in conjunction with m.s. delay detonators and detonating fuse. The blasted burden will be loaded into 35 tonnes capacity tippers and transported to pre-designated dump area. Big boulders formed after drilling and blasting will be broken by secondary blasting and transported to designated place.

The mine is proposed to achieve production level of maximum 0.64 mtpa of iron ore during mining plan period. Waste will be loaded into tippers and carried to the predestinated dump yard. Over all ore to waste ratio is 1:0.14 and 1:0.13 during the plan period. It will be ensured that, the dump height will not exceed 30m with a terrace of 10 m each and the slopes of the dump will be maintained 34°.

Entire mining operations are confined at the hill slope, which are above the ground water table. Hence, no ground water is likely to be encountered through-out the life of the mine.

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

Environmental clearance was obtained from Ministry of Environment & Forest, New Delhi for production of 2.00 mtpa. of iron ore and additional 0.83 mtpa of sub-grade ore from the stocks on 02.11.2007. Copy of Environmental clearance letter is enclosed (Ref. Annexure-VIII). As per

approved R & R plan by the CEC, the production limit is 0.64 mtpa; accordingly, mining proposals are given for production of iron ore @ 0.64 mtpa.

During the plan period production and development is planned in Pit No.

1. The grade of production varies from 45% to 66% Fe.

Table-8: The summary of production and development programme during the mining plan period is as follows.

Unit: in tonnes

Year	Section	Ore F		Retrieval	Total	Was	ste	Total	Ore/	
	s	Ore @	Lateritic	BHQ@	from sub-		Interca-	Over/	Waste	OB
		90%	Lumpy	60%	grade		lated	side		ratio
			оге @		stock		Waste @	burden		
			60%				10%	Waste		
2012-13	M&N	577066	12989		50000	640000	51009		51009	1:0.09
2013-14	M & N	570940	18063	1035	50000	640000	53247		53247	1:0.09
2014-15	M & L	563172	26928		50000	640000	57382		57382	1:0.10
2015-16	L&O	537604	52470		50000	640000	62656	1320	70371	1:0.12
20 16-17	L&O	590031			50000	640000	45072	97904	142976	1:0.24
Total		2838813	110450	1035	250000	3200000	275761	99224	374985	1:0.13

Note: Yearly production limit as approved by the CEC i.e., 6,40,000 tonnes per annum, has been rounded off.

Year-wise, section-wise area, volume & tonnage calculations of production & development are tabulated in tabular form and enclosed vide **Annexure-XX**. The ore to waste ratio for the mining plan period is 1:0.14.

Table-9: The year-wise working RL's and Co-ordinates of production and waste dumping area are mentioned below.

	Worki	ng RL's	Co-oro	Co-ordinates L		Area
Year	From	То	Production & development	Location of Waste dumping area	advance ment	(Ha.)
2012-13	980m	942.5	N-1666858-1667082	N-1666971-1667095	262m	3.53
		m	E- 661967-662131	E-662198-662304		
2013-14	980m	920m	N-1666880-1667075	N-1666996-1667050	279m	3.04
			E- 661944-662165	E-662200-662265 &		
				N-1667466-1667565		
				E-661935-662029		
2014-15	980m	931m	N-1666890-1667140	N-1667467-1667553	246m	2.95
			E-661928-662140	E-661934-662029		
2015-16	995m	950m	N-1666973-1667144	N-1667436-1667568	132m	1.72
			E-661865-662013	E- 661900- 662037		
2016-17	945.5	912.5	N-1666788-1666912	N- 1667436-1667568	223m	2.51
	m	m	E-662095-662250	E-661900-662037		

The each bench location, advancement, length, area etc. are depicted the Pit Layout Plans enclosed vide Plate No. 6A to 6E

Table-10: Year-wise total ore, retrieval from sub-grade mineral dum Unit: in tonnes and waste

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Vacan	Total Ore	Retrieval from sub-grade mineral	Fotal	Total
Year		dump (100% recovery)	1 60	Waste
2012-13	590000	50000	640000	51009
2013-14	590000	50000	640000	53247
2014-15	590000	50000	640000	57382
2015-16	590000	50000	640000	70371
2016-17	590000	50000	640000	142976
Total	2950000	250000	3200000	374985

During the 1st and IInd year of the plan period workings are proposed in M & N sections, IIIrd year in M & L sections and IVth year & Vth year in L & O sections. The location of proposed workings are shown in the above given table. The maximum height of the benches will be 7.50m and minimum width will be of 9.0 m. During the plan period the benches will be worked in all directions, the year wise advancement of benches are shown on the Pit Layout Plans enclosed vide Plate No. 6A to 6E. The waste will be dumped systematically over existing active dump during the Ist year of the plan period and during IInd year, part of the waste will be dumped over existing dumps and remaining part and waste generation of remaining three years of the plan period will be dumped at sub-grade retrieved area. The location of waste disposal areas are shown in the above mentioned table and on the Pit Layout Plans enclosed vide Plate No. 6A to 6E.

Attach individual year-wise plans and sections: Individual year-wise plans are enclosed vide Plate No. 6A to 6E.

Composite sectional views showing pit limit at the end of each year is enclosed vide Plate No. 7.

d) Attach supporting composite plan and section showing pit layouts, dumps, stacks of sub-grade mineral, if any, etc:

Year-Wise pit layout plans showing workings, dumps, stacks of sub-grade mineral, environmental protective measures etc., are enclosed vide Plate No. 6A to 6E. Composite sectional views showing pit limit at the end each year is enclosed vide Plate No. 7.

e) Indicate proposed rate of production when the mine is fully developed and the expected life of the mine and the year from which effected.

It is proposed to work entire mineable reserves during the life of mine Proposed rate of production is 0.64 million tonnes per annum.

Considering the mineable updated reserves of 7.90 million tonnes and 1.53 million tonnes of sub-grade available in the mine at the rate of proposed production, the life of the mine will be about (9.43/0.64 = 14.73 say 15 years) 15 years. During the plan period 0.25 million tonnes of sub-grade ore will be retrieved from SG1. After completion of the proposed exploration, the reserves position will be reviewed and accordingly the life of the mine will be recalculated.

f) Attach a note furnishing a Conceptual mining plan for the entire lease period (for category 'B' mines) and upto the life of the mine (for 'A' Category mines) based on the geological, mining and environmental considerations:

The conceptual mining plan is prepared by covering life of the mine, adequacy of exploration keeping view the past exploration, ultimate pit dimension and slope, adequacy of land for disposal of waste, reclamation and rehabilitation programme as per approved R & R plan with post mining land use pattern.

Life of the mine:

As per the production fixed by the CEC, the life of the mine will be about 15 years, the calculations are shown at Sl. No. 4 (e) above. After completion of the proposed exploration, the reserves position will be reviewed and accordingly the life of the mine will be recalculated.

Adequacy of the exploration:

16 core bore holes with a cumulative length of 914.30m and one DTH bore hole of 52m depth has already been drilled. It is proposed to take-up 42 core boreholes in grid pattern during current plan period. Entire lease area will be

explored during the next five years period. Any additional exploration required will be proposed based on the results of poreholes proposed to drilled during the mining plan period.

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Ultimate pit dimension and slope:

Ultimate pit limit is marked at 60° from the bottom of one body and from 7.5m buffer line as applicable. At the end of the life of mine, about 1,887m length, 205m average width and about 100m depth pit will be formed. Total area covered by the pit will be 41.656 Ha., part of which will be left as water recharging pit by afforesting about 11.57 Ha. of top benches. Remaining 17.66 Ha. area used for dump, road, green belt and infrastructure will be afforested.

Adequacy of land for disposal of waste:-

At present there are two dumps D1 & D2, D1 is partly stabilized and D2 is active dump. As per the dump management proposed in the approved R & R plan, these two dumps D1 & D2 will additionally accommodate 1.66 million cum of waste. During the current plan period, about 0.187 million cum of waste will be generated. At the end of the plan period, space for accommodating 1.473 million cum will be available in this mine.

Contd...

Reclamation & Rehabilitation programme as per approved R & R plan:-

Various engineering and biological measures are proposed in the approved R & R plan, to mitigate the affects from mining and related activities.

Table-11: Implementation schedule of mitigation/engineering

Particle 1 Implementation scriedule O mitigation / origination Description Original O		-		—		T	!	_	_	Τ.	<u> </u>	_	Т-	T	T-	1	T-		L	<u> </u>	T
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Green Belt development on safety zone area	2.49 ha	
Afforested Area		
Plantation on Dumps		
		\exists
Strenthening & Gap Plantation		
		\neg
Environmental Monitoring & watch - Ward		
after closure		

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Table-12: Post mining land use as per approved R & R plan is tabulated below.

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Details		Area (Ha.)
Area for mining - reclaimed		41.656
Area for Dumping -reclaimed		11.946
Area for Sub-grade stacks -re-laimed	laimed	2.135
Statutory buildings		0.65
Safety zone/Greenbelt (Plantation)	tion)	2.49
Virgin Area/Area untouched		0.45
Total		60.80
Constitution of the fact that the contract of	Todo ono:	in a colo de la contra i

Conceptual Mining plan and sections showing all details is enclosed vide Plate No. 9.



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(i) First five years from 2012-13 to 2016-2017:

During this period, it is proposed to produce 0.64 million tonnes/annum of iron ore with ore to over burden ratio of 1:0.13. Area under mining will be about 28.00 Ha.

During the mining plan period, the total waste required to be handled is 0.374 million tonnes. Dumping will be done partly on existing dump and remaining after retrieval of sub-grade mineral stocked on existing dump SG1. Hence no fresh area is being utilized during the plan period.

Table-13: During this plan period the following protective measures will be constructed to arrest the silt erosion during monsoon.

Particular	First five year (2012-13 to 2016-17)
Retaining Wall 1	1371m*
Retaining Wall 2	1200m
Retaining Wall 3	1015m
Garland Drain 1	1440m
Garland Drain 2	1215m
Garland Drain 3	200m
Garland Drain 4	550m
Settling Pond	9 nos.
Safety zone, plantation	1.75 Ha.
Plantation on dump slopes and gap plantation	1.54 Ha.

^{*} Retaining wall 1 is not proposed further, due to common boundary working permission with M/s. Veerabhadrappa Sangappa & Company on South Western side of the lease area.

During this mining plan period gap filling plantation and plantation on inactive portions of the dump slopes and safety zone will be carried-out and plants will be selected as per the approved R & R Plan. About 1.54 Ha. of dump slopes, and 1.75 Ha. of safety zone will be planted with 7500 plants.

(ii) Second Five years from 2017-18 to 2021-22:

During this period, it is proposed to maintain the same rate of production i.e., 0.64 million tonnes/annum. About 0.45 million tonnes of waste is

required to be handled, based on overall stripping ratio of 1:0.14, which will be dumped on designated places with maximum height of 60m in steps of 10m over an area of 10.80 Ha.

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Table-14: During this period the following protective measures carried-out.

Particular	Second five year (2017-18 to 2021-22)
Retaining Wall 1	· -
Retaining Wall 2	240m
Retaining Wall 3	200m
Safety zone, plantation	0.66 Ha.
Dumps stabilization with plantation and gap plantation with 11650 saplings	4.00 Ha.

(iii) Conceptual stage:

During this stage, it is proposed to maintain the same rate of production i.e., 0.64 million tonnes/annum. Total waste required to be handled will be about 0.45 million tonnes. The waste generated will be dumped on existing dump maximum upto height of 60m and each terrace height not more than 10m each over and area of 11.946 Ha. will be stabilized with plantation dump slopes covering 8.54 Ha. and gap plantation will be done with 21,003 saplings.

Table-15: Details of the land use pattern at present and during the subsequent block of 5 years upto conceptual period are given below;

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Area in Ha. 1st **Particulars** Plan Conceptual Present Period 7 Period Scheme (Ha.) period or hidia 28.000 28.00 34.68 41,656. Area for mining 11.946 10.80 4.48 Area for dumping 3.020 2.135 3.56 1.52 Area for sub grade stacks 5.020 Area for mineral stacks (within the 4.130 4.13 pit area) 1.473 5.00 5.00 Area for roads 5.000 (includes 1.13 Ha. of approach road) 0.451 0.650 Statutory buildings 0.451 0.451 0.095 0.095 0.095 Weigh bridge 0.040 0.040 Magazine (including its safety area) 0.040 0.492 0.492 0.076 Retaining wall 0.943 0.943 **Drains** 0.262 0.012 0.012 0.012 Gully plugs 1.540 In active dump/dump stabilized 1.540 1.540 with plantation 0.405 0.405 Settling tanks (9 nos) 1.830 2.49 2.490 Safety zone/green belt (plantation) 0.050 0.45 2.332 Virgin area/area untouched. 13.104* 9.822 60.80 60.80 Total 60.80 60.80

Table-16: Details of the environmental protective measures during the subsequent block of 5 years upto conceptual period are given below;

Particulars	Plan Period	1st Scheme period	Conceptual Period
Plantation	3.32 Ha.	4.66 Ha.	8.54 Ha.
Retaining Wall	3586m	440m	
Garland drains	3405m		

^{*} Virgin area: Out of 13.104 Ha., for retaining walls 0.416 Ha., for drains 0.681 Ha., for settling tanks 0.405 Ha. and for safety zone/green belt plantation 1.78 Ha. total 3.282 Ha. will be utilised during the plan period for implementation of approved R & R Plan. Hence the balance virgin area at the end of the plan period will be 9.822 Ha.

g) Opencast mines:

(i) Describe briefly giving salient features of the mode of working (mechanized, semi-mechanised, manual):

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The method of working is opencast mechanized method. Excavation by Excavator, drilling & blasting, loading of ore & waste and crushing & screening will be done mechanically. The height of the benches shall be 7.50m and bench width will be maintained more than that of height. The road gradient of 1 in 16 will be maintained as per MMR 1961.

1. Removal of Over burden:

The Over/side burden constitutes of Laterite, Phyllite/Shale. The waste will be removed and loaded by the excavators into tippers. Over burden benches are taken in advance for maintaining a proper sequence to the operation in the ore zone benches. There are two dumps existing at present, one is inactive dump D1, another is active dump D2. The location of existing dumps along with proposed dumping during the plan period is shown on Plate No. 6A to 6E.

2. Mining of Ore:

The basic operations involved in the mining of ore are drilling, blasting, excavation, screening and loading into tippers and transportation to the buyers destination.

The bench height will be maximum of 7.5m and minimum working bench width will be of 9.0m. During the plan period the benches will be worked in all directions, with overall pit slope 60° angle will be maintained. Year wise advancement of benches are shown on the pit layout plan enclosed vide Plate No. 6A to 6E. The depth of wagon drill hole for blasting will be 10m, spacing 3m between two holes and burden is 2.5m. To achieve the proposed production at an average 6 holes required to be blasted per day and these holes will be blasted in one round and yield will be 1350 tonnes per round. The expected powder factor is 5 tonnes per kg. i.e., 225 tonnes of rock will be broken per hole, for which 45 kg explosive will be used.

The oversize boulders will be separately treated in the crushing and screening plant. In the hard zone, primary drilling will be done by wagon drill and blasted in conjunction with ANFO and slurry explosive. The blasted ore will be transported to the Crushing & Screening Plant.

(ii) Describe briefly the layout of mine workings, the layout of faces and sites for disposal of overburden/waste:

The plan showing the yearly lay-out of mine workings, waste disposal are shown on Plate No. 6A to 6E. Year-wise production and development limits are also shown on the cross sections enclosed as Plate No. 7.

h) Underground mines:

Not applicable.

i) Extent of mechanization:

Describe briefly including the calculation for adequacy and type of machinery and equipment proposed to be used in different mining operations:

Table-17: List of Mining Machineries existing in the mine are as follows;

	_		•	
Sl. No.	Туре	Nos.	Size/Capacity	Horse Power
A	Drilling			
1	DTH (Wagon Drill BVB-25)	2	115mm	-
2	Tractor mounted drills	2	115mm	
3	Jack Hammer	4	-	
В	Excavators			
4	TATA EX 210cc	2	1.0 Cum	138
5	CAT 320 B	1	1.0 Cum	138
6	CAT 320 D	1	-	-
7	CAT 330 C	1	1.75 Cum	247
8	CAT 320 D	1	1.90 Cum	247
9	L & T Komatsu	1	0.90 Cum	128
9	L & T Komatsu DOOSAN	1	0.90 Cum	128
-			0.90 Cum 0.90 Cum	128 - 138
10	DOOSAN	1		
10 11	DOOSAN VOLVO 210	1 2	0.90 Cum	138

Sl. No.	Туре	Nos.	Size / Capacity	Horse Power
C	Loading		112	12
13	Wheel loader TWL 3036	5	1.70 Cum	131
14	Wheel loader H M	2	1.70 Cum	31 131 131 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15	Wheel loader LG 938	2	1.70 Cum	Govt. 74 ndia
D	Haulage and Transport			
16	Dumpers Ashok Leyland	18	20 Tonnes	168
17	Tippers TATA 1612	2	10 Tonnes	127
18	Dumpers VOLVO	1	35 Tonnes	400
E	Others			
19	Extee Screen S5 & S6	4	300 to 350 T/H	100 & 100.6
20	Extee Crusher C10	3	100 to 150 T/H	300 & 366
21	Crusher RM 80	1	150 T/H	168
22	Water Tanker TATA 1612	4	8,000 Lts	127

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The transport of ore from the mine head to various customers is through hired tipper/trucks by road. Above listed machineries as and when break down, such machines will be repaired on site with the help of workshops/mechanics available at Sandur.

The adequacy of the machineries is dealt below in detail, considering the standard norms of performance and efficiency.

(a) Drilling:

In the mine, the maximum quantity to be handled/annum during the plan period will be about 5,90,000 + 1,42,976 = 7,32,976 tonnes. Out of this, about 50% will require Drilling & Blasting i.e., $7,32,976 \times 0.50 = 3.66,488$ tonnes.

The amount of Drilling required is calculated as under

The quantity of rock broken for hole of 10 m depth (including sub-drilling of 1.0m) = $3.0 \text{m} \times 2.5 \text{ m} \times 10 \text{ m} \times 3.0 \text{ t} / \text{m}^3 = 225 \text{ tonnes (Average Bulk density for both Waste and Ore is taken as 3.0 tonnes/m}^3).$

Therefore, Rock broken / Mtr. = 225 / 10 = 22.5 tonnes.

(1,629 holes of 10m depth with 115mm dia.) i.e., on an average about 6 holes/day (1,629 holes/300 days = 5.43, say 6 holes) is required to be drilled and blasted.

Total charge per blast will be about 270 kg/day (About 45kg per hole). About 64,800 kgs of ANFO and 16,200kg of slurry explosives are required per annum.

e) Storage of Explosives:

Lessee is having a 500kg magazine to possess explosive for use. Location of magazine for explosive storage is shown in the Surface Plan Plate No. 3. Copy of explosive licence letter is enclosed as Annexure – XXI.

6.0 MINE DRAINAGE:

a) Likely depth of water table based on observations from nearby wells and water bodies:

The ground water in the buffer zone area is tapped for irrigation and drinking water purposes. There is no ground water occurrence within the lease area, as it is situated at an elevation of 360m above general ground level. Water table is 50m below the general ground level.

- b) Expected Working level w.r.t. water table: Not applicable.
- 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:

There is no possibility of encountering any ground water sources. Only rain water during monsoon shall be coursed through the existing natural valleys. However, during plan period 695m length x 2m width x 1.5m height retaining wall will be constructed to arrest the silt erosion during monsoon.

7.0 STACKING OF MINERAL REJECTS AND DISPOSAL OF WASTE:

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Indicate briefly the nature and quantity of topsoil, overburden/waste a) and mineral rejects likely to be generated during the next five years: It is not proposed to handle top-soil as the area proposed for mining devoid of top soil. For this mine, Fe. percentage varies from 45% to 66% in the iron ore, cut-off grade is 45% as per the buyer requirement and present market. The rejects include laterite, shale/phyllite which forms the waste as side burden and intercalated waste. The intercalated waste is shale/phyllite having below 45% Fe. content. This Intercalated waste is about 10% from the ore zone, which will be handled separately during the course of mining. Waste is pink to yellowish colour and silky in nature, sub-grade is reddish to grey colour, banded nature and conchoidal nature. The bulk density of the waste is 2.2 t/cum. The chemical characteristics of ore, waste and sub-grade is analysed by NABL approved laboratory. Fe. content in sub-grade varies from 48.59% to 55.00% and in waste Fe. content varies from 27.33% to 29.18%, analysis reports are enclosed vide Annexure-XXII.

Table-19: The quantity of rejection to be generated during the mining plan period is given below:

Units: tonnes

YEAR	Intercalated Waste	OB Waste	Total Waste
2012-13	51009	-	51009
2013-14	53247	-	53247
2014-15	57382	_	57382
2015-16	62656	1320	70371
2016-17	45072	97904	142976
Total	275761	99224	374985

b) Land chosen for disposal of waste with proposed justification:

There are two waste dumps along the Northern boundary of the lease area, indicated as D1 and D2 on Surface Plan (Refer Plate No. 3), whose details area as under.

Meterage required for 3,66,488 tonnes/22.5 = 16,288 Mtrs

Normal capacity of Drilling Machine, in a shift of shours with effective working hours of 7hours/day is found to be 100 Mtrs. Therefore taking 300 working days/annum shall be $300 \times 100 = 30,000$ Mtrs. Therefore, the existing 2 drilling units can drill 60,000 m per annum. Hence, the existing drilling units will be more than adequate to drill the proposed meterage.

(b) Loading:

The maximum quantity of loading planned in a year is

(1) Ore : 6,40,000

(2) Waste : 1,42,976

(3) 50% of feed to gravity screen will be double handled :

3,20,000 (50% of 6,40,000)

(4) 25% of ROM is over size feed to crushing plant:

1,60,000

(5) 25% of ROM may re-handled

as finished product : <u>1,60,000</u>

Total : <u>14,22,976</u> tonnes

To achieve targeted production and development, mine will be worked in general shift of 8 hrs. with effective working hours of 7 hrs./day.

The cumulative capacity of loading equipment per day is given below.

Excavator 13 nos. x 200 t/hr x 7 hr. = 18,200 Wheel Loader 9 nos. x 300 t/hr x 7 hr. = 18,200

Total = 37,100 tonnes/day

(Average handling capacity of each excavator is considered as 200 t/hr. The human efficiency in working hours is considered as 87.5%). Bucket capacity of the machine is 1.25 m³, loose bulk density is 2.0 t/m³. About 5 buckets are required to load each 10 ton tipper (1.25 m³ X 2.0 t/m³ X 5 pass = 12.5 tons) and each bucket cycle time is 30 sec., therefore, average time taken to load a tipper of 10 ton capacity is 2.5 minutes (say 3min.). Thus, capacity of excavator is 200 tons/hour (60min./3min. X 10tons = 200 tons). So one excavator can handle 200 tons/hour.

Taking 300 working days/annum 13 Excavator and 9 wheel loaders cannot handle $37,100 \times 300 = 11,130,000$ tonnes/annum. Considering 50% availability of the machinery they can handle $11,130,000 \times 50\% = 5,565,000 = 10,000$ tonnes. Hence the existing machines will be more than adequate to handle the proposed quantity.

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(c) Haulage:

Transportation of both rejection and ore will be through tippers/dumpers to rejection dump yard in case of rejection and others to crushing and screening plant or to the stock yard in case of ore respectively.

Table-18: Adequacy of hauling trucks is detailed below:

Number of trucks	Maximum capacity	Number of working hours	Number of trips per hr	Total tones/day
Ore: 16 No's	20	7	3	6,720
Waste: 05 No's	20	7	4	2,800

Taking 300 working day/annum : Ore $-6,720 \times 300 = 2,016,000 \text{ tonnes}$: Waste $-2,800 \times 300 = 840,000 \text{ tonnes}$

Hence, the existing tippers/dumpers will be more than adequate to handle the proposed production and development.

5.0 BLASTING:

a) to d) Broad blasting parameters like charge per hole, blasting pattern, charge per delay, maximum number of holes blasted in around, manner and sequence of firing etc:

The primary blasting in the ore zone envisage use of high explosives such as 83mm dia slurry explosive booster in conjunction with ANFO. Normally, the slurry explosives form 20% of the required charge.

This shall be blasted using detonating fuse in conjunction with m.s./card delay detonators. The pattern of drill holes shall be arranged in maximum of two rows in a staggered manner using a spacing of 3.0m and a burden of 2.5m. In this mine the maximum drilling meterage required is 16,288m

Table-19 A

 				1 (5)
Dump No.	Area in Ha.	Volume in Cum	Location	1
D1 (Inactive)	1.54	1,17,285	1667390-1667658 E 662055-661835	
D2 (Active)	3.02	1,26,300	N 1666970-1667095 E 662180-662304	

Note: Over the D1 sub-grade mineral is stacked hence this area is covered in SG1 area.

Part of the dump D1 is out side the mining lease area, also identified and reported by the CEC sketch. This dump is stabilized and the height is less than 26m and entire dump area is afforested by species like Agave, Kamara, Semethangadi and the bottom of the dump is protected by retaining walls.

There are two sub-grade mineral stacks, SG1 & SG2 covering surface area of 5.02 Ha. marked on the Surface Plan (refer Plate No. 3), whose details are as under,

Table-19 B

Sub-grade stack No.	Volume in Cum	Location
SG-1	4,61,052	N 1667375-1667580
		E 661930-661820
SG2	3,81,349	N 1667051-1667250
		E 662060-662256
Total	8,42,401	

As per the approved R & R Plan, dumps D1 & D2 are further considered for accommodating the waste upto conceptual stage. The total area under dumping during ensuing plan period is 4.48 Ha. with maximum height of 30m in steps. During the plan period, no fresh area being utilised for dumping and it is planned to dump the waste over existing dumps D1 & D2. Two Sub-grade stock SG1 & SG2 are located at North-Eastern side of the mining lease area near to the pit no. 2. The part of sub-grade from SG1 will be retrieved and subsequently waste will be dumped on the retrieved area. The location of sub-grade retrieved area and proposed dumping area is dealt in subsequent para at 7 (c) below.

Inactive portions of the dump slopes will be afforested Dump configuration during the mining plan period is shown on Plate No. 6A to 6E.

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Manner of disposal and configuration sequence of build-up of dump c) with proposals for the stacking of sub-grade ore:

The details of existing, dumps, proposed for plan period and conceptual period dumping are as under.

Particulars	Existing dumps	Plan period	Conceptual dumping
	(given in approved	dumping	(as per the approved
	R & R)		R & R)
Location			
D1: Northing	N 1667390-1667658	N 1667430-1667570	N 1666710-1667250
Easting	E 661835-662055	E 1661900-662035	E 662050-662380
D2: Northing	N 1666970-1667095	N 1666996-1667095	N 1667410-1667650
Easting	E 662304-662180	E 662198-662304	E 661705-662050
Capacity			
D1	0.117 MCM	0.147 MCM	0.678 MCM
D2	0.130 MCM	0.049 MCM	0.983 MCM
Area			
D1	1.54 Ha.	0.94 Ha.	3.760 Ha.
D2	3.02 Ha.	0.52 Ha.	8.186 Ha.
Height			
D1	26m	15m	60m
D2	50m	30m	60m
Overall slope			
D1		29°	23°-30°
D2		27°	23°-30°
Terrace slope			
D1	34°	34°	33°-44°
D2	34°	34°	33°-44°
Average bench	height/terrace		
D1		10m	10m
D2		10m	10m
Width of terrac	e		
D1		8m	8-10m
D2		8m	8-10m

During plan period it is proposed for dump over existing dump D1 & D2, which is part of the conceptual period dumping as approved in the R & R plan. The waste generation during Ist year and part of the IInd year of plan period will be dumped systematically over existing dump maximum

height of 30m in terraces of 10m each at 34° slope, up to its ultimate capacity and after reaching its ultimate level, the existing dump D1 will be utilized for dumping of waste. Over dump D1 at present, sub-grade mineral is stacked (SG1) which will be retrieved at 50,000 tonnes per annum, and the same area will be utilized for dumping of waste from Had year onwards, during the plan period.

The retrieval of sub-grade from sub-grade stack SG1 and systematic dumping of waste during the current plan period has been shown as the pit lay out plan with cross sections enclosed vide Plate No. 6A to 6E and 7.

Table-20: Year-wise generation of waste and location of dumping is given below;

YEAR	OB/Waste (tonnes)	Location
2012-13	51009	N-1666971-1667095
		E-662198-662304
2013-14	53247	N-1666996-1667050
		E-662200-662265 &
		N-1667466-1667565
		E-661935-662029
2014-15	57382	N-1667467-1667553
		E-661934-662029
2015-16	70371	N-1667436-1667568
		E- 661900- 662037
2016-17	142976	N- 1667436-1667568
		E-661900-662037
Total	374985	

The configuration of year-wise dump is shown on yearly production and development plan enclosed vide Plate No. 6A to 6E. The waste will be dumped systematically at the area carmarked for the purpose with maximum height of 30m in terraces of 10m each at 34° slope. These dumps will be protected by construction of toe/retaining walls. The location of the dumping is marked on vide Plate No. 6A to 6E. Sections showing yearly workings for mining plan period is enclosed vide Plate No. 7.

About 15,35,000 tonnes of sub-grade ore stock is available in the mining lease area and occupies a total area of 5.02 Ha. (SG1 & SG2). Grade of the sub-grade mineral is +45 to 55% Fe. Chemical analysis report obtained

from NABL accredited laboratory is enclosed vide Annexure-XXII. The existing sub-grade stack SG1 will be retrieved and blended with the regular production as per the buyers requirement during the plan period at 50,000 tonnes per annum. Further, no sub-grade generation is considered separately as the average grade available in the mine is +58%. Fe. and cut-off grade from this mine is 45% Fe. Hence sub-grade ore if any generated will be suitably blended with higher grade ore and disposed simultaneously as per market requirement. At present the sub-grade mineral is being disposed through e-auction by the monitoring committee.

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8.0 USE OF MINERAL:

a) Describe briefly the end-use of the mineral (sale to intermediary parties, captive consumption, export and industrial use):

There is an increasing demand for iron ore from various consumers. The

iron ore produced will be sold locally or exported directly to the steel mills located abroad.

b) Indicate physical and chemical specifications:

Table-21: Some of the buyers typical specifications are as below:

SI. No.	Buyers	Chemical specification	Physical specification
1.	PT Resources Pty Ltd., Australia.	Fines	+10mm - 10%
2.	PT Mineral Pte Ltd., Singapore.	+62% Fe.	Max10mm -
3.	Continental Mineral Pvt. Ltd., Hong Kong.	Lumps	90% Min.
4.	PT Mineral Asia Ltd., Hong Kong.	+62% Fe.	-100 mesh
5.	Brownstone International Pty Ltd.,] .	35% Max.
	Australia.	Lumps	+10mm to -
6.	Hornor Resources (Int) Co., Hong Kong.	+62% Fe.	40mm
7.	MMTC Lta.,	,	
8.	JSW Ltd., Toranagal	59 to 62%	+10mm to
9.	Fomento (Kar) Mining Co. Pvt. Ltd., Goa.	Fe	40mm
10.	Local Sponge Iron Companies.		

c) Details of blending of different grade of ore is being practiced or is to be practiced at the mine to meet specification stipulated by buyers: Entire ROM will be blended suitably at the time of crushing and screening as per the buyer's requirement.

9.0 OTHERS:

a) Site Services:

Repairs of equipment's are undertaken at mine of at Sandur. Office Stores, weigh bridges, generator room, garage, First-aid station, rest shelter, canteen, latrines and urinals are constructed and maintained at the mines (Ref. Plate No. 3). ANFO mixing shed will be constructed and one more mobile weigh bridge will be installed within the mining lease area during the plan period (Ref. Plate No. 6A).

Details of plantation already carried out and proposed plantation are tabulated below.

Table-22: Plantation already carried out.

Year	No. of	Area	Survival	Location	Species
.	Saplings Planted	covered in Ha.	rate in %		-
2006-07	40,000	1.50	40%	OB dump Slopes &	Bage, Cassia,
				Gap filling	Honge,
2007-08	20,200	1.10	40%	Gap filling & green	Eucalypts,
				belt	Tamarind,
2008-09	20,000	1.00	40%	Gap filing along	Neem, Kamara,
				with haulage roads	Seemathangadi,
2009-10	50,000	2.05	40%	Gap filling and	Seehunnase and
				other area	bell flower.
2010-11	15,000	3.05	40%	Gap filling	
	145,200	8.70			

Table-23: Proposed Plantation Year Area in Proposed Ha. plantation 2012-13 0.356 730 Safety zone 0.308 770 Dump slopes and gap filling 2013-14 0.356 730 Safety zone per 0.308 770 Dump slopes and gap filling approved 2014-15 0.356 730 Safety zone R & 0.308 770 Dump slopes and gap filling Plan 2015-16 0.356 730 Safety zone 0.308 770 Dump slopes and gap filling 2016-17 730 0.356 Safety zone 770 0.308 Dump slopes and gap filling Total 3.320 7500

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The expected survival rate is about 70%. The proposed area for plantation is shown on **Plate No. 11**.

b) Employment potential:

The maximum production to be handled per year during the plan period will be 0.64 million tonnes. The number of working days for the mine are 300 days. Therefore, the daily average production shall be 6,40,000/300 = 2134 tonnes/day.

About 162 persons will get direct employment opportunities due to proposed mining activity.

Table-24: The category-wise break-up is given below;

Sl. No.	Category	No. of Persons.
1.	Highly Skilled	10
2.	Skilled	36
3.	Semi-Skilled	64
4.	Un-Skilled	52
	Total	162

The highly skilled includes Mining Engineer cum Mine Manager and Geologist as per the MCDR.



10.0 MINERAL PROCESSING:

No mineral processing technique will be adopted. However, dry crushing and screening of ROM will be done at the plant as per the buyers specification with the help of 4 mobile crushing and 4 screening plants of 100 to 350 TPH (three existing with in the lease and others set-up outside the lease area) to screen 0.64 million tonnes, there by recovering 100% material. The process flow chart of screening plant is enclosed vide Annexure - XXIII. However, it is proposed to conduct beneficiation in pilot scale to utilize the sub-grade ore/siliceous ore for test in addition to blending sub-grade ore along with high grade ore.

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PART - B

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11.0 ENVIRONMENTAL MANAGEMENT PLAN

(A) BASELINE INFORMATION:

i) Existing land use pattern:

Majority of the area in the buffer zone is covered under forest. There are about 13 mining leases with-in the buffer zone of 10 kms. The buffer zone upto 10kms from the mining lease comprises 13 villages and one town i.e., Sandur. Railway line is passing at about 3 kms from the mine. The locations are marked on Key Plan enclosed vide **Plate No. 1**. In the buffer zone of 10kms, about 65.74% area is covered under forest and rest comprises of revenue lands, roads, village etc.

Mining lease was granted in the year 1992 and mining operations were commenced from November 1996.

Table-25: The detailed Present land use pattern is given below.

Particulars Particulars	Present (Ha.)	
Area for mining	28.000	
Area for dumping	3.020	
Area for sub grade stacks	5.020	
Area for mineral stacks (within the pit area)	4.130	
Area for roads (includes 1.13 Ha. of approach road)	5.000	
Statutory buildings	0.451	
Weigh bridge	0.095	
Magazine (including its safety area)	0.040	
Retaining wall	0.076	
Drains	0.262	
Gully plugs	0.012	
In active dump/dump stabilized with plantation	1.540	
Settling tanks (9 nos)		
Safety zone/green belt (plantation)	0.050	
Virgin area/area untouched.	13.104	
Total	60.80	

ii) Water regime:

Mining activities causes adverse impacts on water bodies due to changes in mine drainage and siltation due to storm water. The mining activity is confined to the top and edge of the hill range. There are no perennial streams or nallas. The water courses are seasonal and observed in monsoon season only.

iii) Flora and Fauna:

a) Flora

The vegetation occurring in the area belongs to Southern iffopical dry deciduous forests according to revised classification of forest types of India (Champion and Seth 1968). The area falls under the mixed deciduous subclassification. According to the classification being made by Legris and Pascal (1982) the area falls under Deciduous climax forests. According to this classification this type of forests does not have the potentiality of secondary moist deciduous forests. It was found that the canopy is open and the majority of the trees are leafless during the dry months.

The dominant tree species found in the area are Anogeissus latifolia, Boswellia serrata, Dolichandrone atrovirens, Buchanania lanzan, Pterocarpus marsupium, Chloroxylon swietenia, Aegle marmelos, Albizia amara, Albizia odoratissima, Bridelia retusa, Dalbergia paniculata, Grewia tiliifoliam, Grewia villosa, Phyllanthus emblica, Polyalthia ceresoides, and Stereospermum tetragonum, Few climbers and twiners like Celastrus paniculatus, Cocculus hirsutus, Acacia spp. Aristolochia indica, Asparagus racemosus, Cryptolepis are also observed. Lantana camera, Maytenus emarinatus, Dendrocalamus, Cassia auriculata, Tecoma Stan, Dodonaea viscosa, Gardenia gummifera, Clerodendrum serratum are some of the shrubs/bamboo encountered during the survey. The ground flora is chiefly seasonal. The dominant grasses include species like Andropogon pumilus, Apluda mutica Setaria verticillata, Chrysopogon fulvus, Cymbopogon martini, Cynodon dactylon, Heteropogon contortus Themeda sp. etc. Chiefly occurring herbs include Parthenium hysterophorus, Solanum violaceum, Stylosanthes fruticosa, Synedrella nudiflora, Acalypha indica, Achyranthes aspera, Aerva lanata, Bidens biternata, Blepharis maderaspatana, Justicia simplex, Leucas aspera and Lepidagathis cristata.

b) Fauna

The mine lease area falls within the Reserve Forest. The formal diversity counts of 15 species of mammals coming under 15 families, 30 species of reptiles coming under 12 families, 7 species of amphibians coming under 4 families, 77 species of butterflies coming under 5 families, 89 species of avifauna and 63 species of aquatic birds. In view of the fact that there is no perrineal stream flowing across the ML area no fishes or other aquatic microflora and microfauna were observed. Daroji Lake located about 20 km away from the mine study area.

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Fauna found in general, in the study area is given below.

Animals 1 **Tackals** 2 Fox 3 Rats Mongoose Wild Pigs Rabits Monkeys Avifauna Jungle Fowl 1 Crow 2 3 Sparrow Peacock Heron **Patridge Bardet Egrets** Reptiles Cobra Viper Krait

iv) Quality of air, ambient noise level and water:

The air quality has been monitored in the buffer zone at Dharmapuri, Yeshwanthnagar, Sushilnagar villages. The general ambient air quality in the region is within the permissible limits. Water spraying on transport roads is carried-out regularly.

The water quality has been monitored at five places out of which three for ground water and two for surface water samples.

The monitoring reports of air, noise, water and soil are enclosed v. Annexure - XXIV.

v) Climatic conditions:

Bellary district in general has dry climate, the average rainfall / annum is about 479.35mm (1992-2009). The highest and lowest temperature is 39.30 during summer days and 20.40° during summer nights. The relative humidity observed in this area is moderate. Moderate wind velocities in NW-SE directions and closely followed by SE-NW are experienced during summer season.

vi) Human settlement:

There is no habitation in the area. No villages are situated within the lease area. Workmen and staff will come from the villages outside the leasehold. So there is no displacement involved. There are 13 villages within 10km radius, whose distance direction from the lease area along with population are tabulated below. The same also indicated on Key Plan enclosed vide Plate No. 1.

Table-26: Demographic details of the mine affected villages within 10 km radius

Sl.	Village/Town	Distance	Population			Direction
No.	Village/10Wil	(km)	Male	Female	Total	
1	Ramghad	4.4	133	138	271	NW
2	Sushilanagr	3.2	2498	2481	4979	NW
3	Bhujanganagar	9.6	2703	2735	5438	NE
4	Balakundi	8.5	1851	1863	3714	SW
5	Doulatpur	5.7	1414	1351	2765	NE
6	Garga	6.7	983	924	1907	NIM
7	Krishnanagar	7.7	877	856	1733	NE
8	Mallapur	9.9	1259	1195	2454	S
9	Nagalapura	9.8	992	939	1931	NE ·
10	Sandur town/ Dharmapur/ Laxmipur/ Nandhihalli	7/6.30/ 7.7/12.7	19000	18500	3750 0	Е
11	Siddapur	7.0	762	708	1470	NW
12	Somalapur	6.6	396	364	760	SW
13	Yeshwanthanagar	5.8	3377	3158	6535	SW
	Total		38876	37831	76707	

Source: Approved R & R Plan

vii) Public buildings, places of worship and monuments:

No public buildings, parks PWD roads etc., exist within the leasehold or in the vicinity. However, local temples/places of worship are located in the buffer zone villages.

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- viii) Attach plans showing the locations of sampling stations: Shown on the key plan enclosed vide Plate. No. 1.
- ix) Does area (partly or fully) fall under notified area under water (Prevention & Control of Pollution) Act, 1974.
 The subject lease area falls under notified area of the above Act. Suitable action and steps shall be taken in case any obligation arises from the above said Act.

(B) ENVIRONMENT IMPACT ASSESSMENT STATEMENT:

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

The area as such falls on a hill ridge and slope. The total area under mining and allied activities is 60.80 ha. The landscape of the hilly terrain has been modified to a large extent due to mining activities since 1992 due to open cast mines resulted, in changes in topography, land-use pattern, drainage pattern, top soil composition by run-off from overburden dumps, etc.

Table-27: The present and proposed usage of land during the mining

plan period is as follows:

nail period is as follows:					
Particulars	Present	Plan Period			
	(Ha.)	/ (Ha.)			
Area for mining	28.000	28.00			
Area for dumping	3.020	3 4.48			
Area for sub grade stacks	5.020	3.56			
Area for mineral stacks (within the pit area)	4.130	4.13			
Area for roads (includes 1.13 Ha. of	5.000	5.00			
approach road)		Par Calabana Calabana			
Statutory buildings	0.451	0.451			
Weigh bridge	0.095	0.095			
Magazine (including its safety area)	0.040	0.040			
Retaining wall	0.076	0.492			
Drains	0.262	0.943			
Gully plugs	0.012	0.012			
In active dump/dump stabilized with	1.540	1.540			
plantation					
Settling tanks (9 nos)		0.405			
Safety zone/green belt (plantation)	0.050	1.830			
Virgin area/area untouched.	13.104*	9.822*			
Total	60.80	60.80			

^{*} Virgin area: Out of 13.104 Ha., for retaining walls 0.416 Ha., for drains 0.681 Ha., for settling tanks 0.405 Ha. and for safety zone/green belt plantation 1.78 Ha. total 3.282 Ha. will be utilised during the plan period for implementation of approved R & R Plan. Hence the balance virgin area at the end of the plan period will be 9.822 Ha.

ii) Air Quality

The impacts on air environment from a mining activity depend on various factors like production capacity, machinery involved, control measures adopted, operation and maintenance of various equipments and vehicles.

Apart from these, there are other activities associated viz., transportation of ore and waste, stocking facilities and dump management within the mine lease area. The air quality of the mining area is also affected due to following reasons like drilling, blasting and transportation of the minerals, crushing of iron ore and operation of diesel based equipments.

Details of present air quality data is furnished in Annexure -XXIV.

iii) Water quality:

Mining activities cause adverse impact due to mine drainage and siltation due to storm water. No perennial rivers/nallahs are present in this area But, different seasonal streams / nalla lead to Narihalla reservoir carr cause much siltation and pollution therefore siltation into the reservoir.

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The ground water will not be affected, as the elevation of working is much above the water table level.

iv) Noise levels:

Mining machinery and heavy-duty vehicles in the area cause noise pollution and effect of noise is much pronounced near the active working areas. The noise and vibration producing activities and intensity and the impact on the people and wild life in the surrounding area has to be monitored regularly.

v) Vibration levels:

Blasting is an important and vital aspect of mining. It is essential to assess the impact of this activity of the surrounding area, especially on the nearby structures and dwelling houses.

The quantity of charge used in the mine at any point is very small. Further except for the essentials like rest shelter, canteen, mines office, no other infrastructure is within the mining area.

Further, the area is located at 2.75 km away from the nearest village and at a level difference of about 355m, with alternate spurs and valleys. The terrain will not propagate the vibrations. Hence, the impact due to blasting is negligible. The vibration study will be conducted both in core zone as well as buffer zone areas during plan period and report of the same will be submitted.

vi) Water regime

In this case, the surface water is the rainwater, the chemical analysis of Iron ore does not show any hazardous parameters. Hence, the rainwater passing through the mine working does not affect. However, during monsoon there is every possibility of transportation of the silt and sedimentation into the surrounding area, which may cause pollution to the natural drainage system. During mining activity a part of the dustogenerated by the vehicular movement get mixed with the rainwater and carried as solid suspension along with it, causing siltation in the seasonal nallah.

The ground water table is about 50m below the general ground level. Hence, the ground water will not be affected, as, the mining operations are conducted at hilltop, which is at much higher level than ground water level.

vii)Socio-economics

There are 13 villages and one town falling within the buffer zone. The villagers are depend upon agriculture and mining related activities. Continuing mining operations in the locality will improve the living standards of the local people i.e., mining operations will boost-up the employment opportunities of the area. Hence, the beneficial effect on the economy of the habitants in the near by villages, by the mining operations is very significant.

Regarding safety, mine management will take all precautionary measures such as issuing goggles, respirators, earmuffs, safety belts and ropes, helmets and safety shoes to the eligible workers and also to the staff every year. In addition to this, the mine is provided with first-aid room and first aid station etc.

Due to proposed production, the Government will also benefited financially through revenues amounting to Crores of Rupees by way of royalty, sales taxes, road tax etc., vii) Public Buildings, Places & Historical monuments etc.

No historical monuments etc, are located in the vicinity and hence the shall not be any effect.

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(C) ENVIRONMENTAL MANAGEMENT PLAN:

Attach an environmental management plan (supported by appropriate plans and sections) defining sequence and timing in the following areas (or diagram to be used):

Iron ore reserves of this area form a mineral wealth, as, there is a continuous demand for lumps and fines in the local, as well as, in the foreign market like Japan, Korea, China etc.

Since, the iron ore reserves of this area are economically viable, proper mining and utilisation of ore will improve the economic status of the local people and the Country. Therefore, these deposits should be fully exploited scientifically for the benefit of the Country and in the interest of the local steel industries, which are already commissioned, and those are coming up in the near future.

In this regard, it is also an important factor to have glimpses on the other factors of the mining activity resulting in the degradation of the environment. After analysing and assessing the impacts of the various mining activities it is found that the mining activities certainly will have its effects on the different environments as is assessed in the earlier para. At the same time, it is to be realised that it is possible to control the deterioration of the environment due to mining activity by adopting and monitoring few fixed practices as described in detail in this chapter.

The Company is for taking measures to reduce the impact of mining on the environment, so that least and insignificant damage to the existing environment is made by the mining activities.

Green belt development plan:

In order to minimize the impact of mining on environmental components outside the mine lease area, it is proposed to develop green belt in safety zone in side mine lease area in 7.5m width, along such mine lease boundaries, which are not contiguous with any other mining lease areas. The green belt will act as a barrier to trap the suspended dust particles and also suppresses noise and air pollutants. The green belt will be developed with the species as recommended in the approved R & R Plan as per the time schedule given i.e., during next 7 years. The indicative cost of development of green belt is as under.

Table 27 A: Details for indicative cost of developing Greenbelt

S.	Item of work	Area	Unit cost	Amount
No.		(ha)	(Rs. in lakhs)	(Rs. in lakhs)
1	Green belt development/ maintenance	2.49	2.57	6.40

i) Temporary storage and preservation of top-soil:

No top-soil is anticipated in the proposed advancement of mining operation and hence there is no proposal for handling, stacking and utilization of top soil.

ii) Year-wise Proposal for reclamation of land affected by abandoned quarries and other mining activities during first five years and upto conceptual plan period for 'A' category mines clarifying the extent of backfilling and recontouring and/or alternative use of unfilled/partially filled excavations/road sides/slopes and mine:

In case of abandoned quarries/pits are proposed to be used as reservoir, their size, water holding capacity and proposal for utilization of such water to be given:

Land restoration and reciamation is very much essential in any mining industry. Due to mining activity in this area, there will be change in the ground profile in the form of pit and waste dumps.

The ore bearing area will be mechanically mined-out upto the ultimate pit limit maintaining required bench height and width with due consideration for slope stability. No part/whole of the pit area is proposed for reclamation/backfilling as entire area will be active under mining operation upto conceptual period.

Table-28: The land use details as on date and upto conceptual period is given below, and the same is shown in conceptual plan (Ref: Plate No. 2).

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Particulars	Present (Ha.)	Plan Period	Ist Scheme period	Conceptual Period
Area for mining	28.000	28.00	34.68	41.656
Area for dumping	3.020	4.48	(10.80	11.946
. Area for sub grade stacks	5.020	3.56		2.135
Area for mineral stacks (within the pit area)	4.130	4.13	1366	or India
Area for roads (includes 1.13 Ha. of approach road)	5.000	5.00	5.00	1.473
Statutory buildings	0.451	0.451	0.451	0.65 <u>0</u>
Weigh bridge	0.095	0.095	0.095	-
Magazine (including its safety area)	0.040	0.040	0.040	-
Retaining wall	0.076	0.492	0.492	
Drains	0.262	0.943	0.943	
Gully plugs	0.012	0.012	0.012	
In active dump/dump stabilized with plantation	1.540	1.540	1.540	
Settling tanks (9 nos.)		0.405	0.405	
Safety zone/green belt (plantation)	0.050	1.830	2.49	2.490
Virgin area/area untouched.	13.104*	9.822*	2.332	0.45
Total	60.80	60.80	60.80	60.80

^{*} Virgin area: Out of 13.104 Ha., for retaining walls 0.416 Ha., for drains 0.681 Ha., for settling tanks 0.405 Ha. and for safety zone/green belt plantation 1.78 Ha. total 3.282 Ha. will be utilised during the plan period for implementation of approved R & R Plan. Hence the balance virgin area at the end of the plan period will be 9.822 Ha.

Table-29: Details of the environmental protective measures during the subsequent block of 5 years upto conceptual period are given below;

Particulars	Plan period 2012-13 to 2016-17	1st Scheme period 2017-18 to 2021-22	Conceptual Period
Retaining Wall 1	1371m*		
Retaining Wall 2	1200m	240m	· · · · · · · · · · · · · · · · · · ·
Retaining Wall 3	1015m	200m	
Garland Drain 1	1440m		
Garland Drain 2	1215m		
Garland Drain 3	200m		
Garland Drain 4	550m .		
Settling Pond	9 nos.		
Safety zone, plantation	1.75 Ha.	0.66 Ha.	
Plantation on dump slopes and gap plantation	1.54 Ha.	4.00 Ha.	8.54 Ha.

^{*} Retaining wall 1 is not proposed further, due to common boundary working permission with M/s. Veerabhadrappa Sangappa & Company on South Western side of the lease area.

It was proposed to use Optimum charge in each hole and m.s. delay detonator. Spacing of 3.00m and burden of 2.30m was maintained. Diameter of each hole was 115mm with 10m depth Sequential blasting will be carried-out.

ix) Measures for protecting historical monuments and for rehabilitation of human settlement, likely to be disturbed due to mining activity: No historical monuments are existing with-in the vicinity of the mining area. There is no habitation in the mining lease area. No villages are situated with-in the lease area. Workmen and staff come from the nearby villages. So there is no displacement involved.

x) Socio-Economic benefits arising out of mining:

As, already explained in the earlier para, the mining industry will improve the economic status of the people in and around the lease area. Continued mining activities, will benefit the local people due to job opportunities created.

Iron ore reserves of this area form mineral wealth, as, the iron ore is major raw material for the manufacture of steel. Since, the iron ore reserves of this area are economically viable, their proper utilisation will improve the economic status of the people and the Country.

Apart from cess and royalty, Govt. will be getting many indirect taxes like Road tax, land lease rent, sales tax etc. More over Country will also be earning valuable foreign exchange from the export of Iron ore.

People residing in the nearby villages are benefited by the direct and indirect employment opportunity created by the mining activity, vocational training etc. The mine will be employing 162 persons directly/indirectly.

(D) MONITORING SCHEDULES FOR DIFFERENT ENVIRONMENTAL COMPONENTS AFTER THE COMMENCEMENT OF MINING AND OTHER RELATED ACTIVITIES:

The lessee shall carryout environmental monitoring as per approved EIA/EMP by MoEF and implementing the quality parameters. Funds will be earmarked for the purpose and mine manager will supervise all environmental related works.

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i) Monitoring of water quality:

- 1.

Water samples shall be collected from five stations, once in a month and the quality determined and compared with the permissible limits as stipulated by IS: 10500. The following parameters shall be analysed.

- 1. Colour
- 2. Turbidity
- 3. Total Dissolved solids (mg/1)
- 4. Total suspended solids (mg/l)
- 5. pH
- 6. Ambient Temperature
- 7. B.O.D (3 days at 27 ° C (mg/l)
- 8. C.O.D (mg/l)
- 9. Chloride as Cl (mg/l)
- 10. Fluoride as F (mg/l)
- 11. Dissolved Phosphate as PO4 (mg/l)
- 12. Nitrate as NO3 (mg/l)
- 13. Sulphate as SO4 (mg/l)
- 14. Iron as Fe (mg/l)
- 15. Calcium as Ca (mg/l)
- 16. Magnesium as Mg (mg/l)
- 17. Acidity as CaCo3 (mg/l)
- 18. Alkalinity as CaCo3 (mg/1)
- 19. Sodium as Na (mg/l)
- 20. Potassium as K (mg/l)
- 21. Total Hardness as CaCo3 (mg/l)
- 22. Total coliform count MPN Coli/100 ml)

ii) Monitoring the micro-meteorological data:

Recording temperature, rainfall, humidity, wind direction and speed shall be made during the period of air monitoring.

iii) Programmes of afforestation, year-wise for the initial five years (and upto the conceptual plan period for 'A' category mines) indicating number of plants with name and species to be afforested under different areas in hectares:

Table-30: The proposed plantation during the mining plan period given in the following table:

Year	Area	Proposed	Location.	Species
	in Ha.	plantation		
2012-13	0.356	730	Safety zone	Local
	0.308	<i>7</i> 70	Dump slopes and gap filling	species as
2013-14	0.356	730	Safety zone	per
	0.308	<i>7</i> 70	Dump slopes and gap filling	-approved
2014-15	0.356	730	Safety zone	R & R
	0.308	770	Dump slopes and gap filling Plan	
2015-16	0.356	730	Safety zone	
	0.308	<i>7</i> 70	Dump slopes and gap filling	
2016-17	0.356	730	Safety zone	
	0.308	770	Dump slopes and gap filling	
Total	3.320*	7500		

^{*} Out of 3.32 Ha. proposed area for plantation, 1.78 Ha. fresh area will be covered during the plan period.

The expected survival rate is about 70%. The proposed area for plantation is shown on Plate No. 11.

Table-31: The plantation for the balance plan period and next successive block of 5 years is given in the following table:

		•	
Period	Area in Ha.	Proposed plantation	Location.
Plan period 2012-13 to 2016-17	3.320	7500	Safety zone, Dump slopes
1st Scheme period 2017-18 to 2022-23	4.660	11650	Dump slopes
2 nd Scheme period 2023-24 to 2028-29	4.100	10000	Dump slopes and gap filling
Conceptual Period 2029-30 to 2034-35	4.500	11350	Dump slopes and gap filling
Total	16.58	40500	

Local plant species mentioned in approved R & Plan will be planted.

iv) Stablisation and vegetation of dumps along with waste dump management year-wise for the first five years (and upto conceptual plant period for 'A' category mines):

It is proposed to dump the waste generated during mining plan period with-in the lease area. Waste generated will be dumped at pre-designated place upto a maximum height of 30m with terracing and keeping the dump slope at 34°. Retaining wall of 3586m length will be constructed, 3.32 Ha., 7500 saplings. All the protective measures and plantation details are marked on Environment Management Plan enclosed vide Plate No. 11.

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v) Measures to control erosion/sedimentation of water course:

Table-32: The proposal of protective measures during the mining plan period are as follows:

Year	Protective Measures				
	Retaining walls Dimension in mts. (L X W X H)	Garland drains Dimension in mts. (LXWXH)	Settling tanks Dimension in mts. (LXWXH)		
2012-13	900 X 1.5 X 3	3405 X 2 X 1	9 Nos. (30 X 15 X 3)		
2013-14	900 X 1.5 X 3		-		
2014-15	900 X 1.5 X 3	-	-		
2015-16	443 X 1.5 X 3	-	-		
2016-17	443 X 1.5 X 3	-	-		
Total	3586 X 1.5 X 3	3405 X 2 X 1	9 Nos. (30 X 15 X 3)		

In addition to the above, existing environmental protective measures (check dams, gully checks, retaining walls, trenches etc.,) will be maintained.

vi) Treatment and disposal of water from the mine:

No mineral beneficiation will be conducted using water. Hence, question of treating water before discharge does not arise.

vii) Measures for minimising adverse effects on water regime:

As such, water regime is not affected and hence, measures for minimising adverse effects of water regime does not arise. However, precautions as mentioned in the earlier paras will be taken.

iii) Air quality monitoring:

Ambient air quality shall be monitored at the following 6 stations as per

DOE norms.

Buffer zone:

A - I Dharmapur village

A - II Yeshwanthnagar village

A - IIISushilanagar village

Core zone (with-in the lease area):

FA I Drilling & Loading

FA II Dumping

FA III Haulage

These air samples shall be analysed for SPM, RPM, SO2 and NOx or as per the guidelines.

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iv) Noise level monitoring:

Monitoring of noise levels shall be undertaken at the following locations.

- N1 Drilling & Loading point
- N2 Mine Haul road
- N3 Mine Office
- N4 Dharmapur village
- N5 Yeshwanthnagar village

The noise level monitoring shall be done in one season, namely for winter season.

v) Soil quality monitoring:

Soil samples shall be collected from the fellowing stations once in a year

- SK 1 Stabilized dump within the lease area
- LS 2 Sushilanagar village (Agri. land)
- VS 2 Yeshwanthnagar village (Agri. land)
- VS 3 Dharmapur village (Agri. land)

The soil samples shall be analysed for the following parameters.

- 1. pH
- 2. E.C. (Micro mhs/cum)
- 3. Nitrogen as N (kg/ha)

- 4. Phosphorus as P2O5 (kg/ha)
- 5. Potassium as K2O2 (meg/100gm)
- 6. Cloride as Cl (%)
- 7. Organic matter (%)
- 8. Iron as Fe (%)
- 9. Water holding capacity
- 10. Sand (%)
- 11. Silt & Clay
- 12. Texture



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vi) Monitoring on afforestation keeping an effective track of the vegetation established and its growth:

The above monitoring proposals shall be adhered by the lessee and the results shall be intimated to the IBM, K.S.P.C.B & MOEF for their perusal and records.

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PART - C

12.0 PROGRESSIVE MINE CLOURE PLAN:

1.0 INTRODUCTION

(a) Name of the lessee: M/s. Sri Kumarswamy Mineral

(b) Location of the lease area:

The subjected area falls in Ramanadurga Block, Sandur Taluka. Bellary District of Karnataka State.

Ramanadurga iron ore mine falls on Survey of India Topo-sheet No. 57A/8 and 57A/12. The area is bounded in between Latitude N15° 04′ 07.1″ to 15° 04′ 58.1″ & Longitude E76° 29′ 57.2″ to 76° 30′ 45.2″ (Datum: WGS-84).

(c) Type of lease area

: Forest

(d) Extent of lease

: 60.80Ha.

(e) Present land use plan

Table-32: Present land use plan

Particulars	Present (Ha.)
Area for mining	28.000
Area for dumping	3.020
Area for sub grade stacks	5.020
Area for mineral stacks (within the pit area)	4.130
Area for roads (includes 1.13 Ha. of approach road)	5.000
Statutory buildings	0.451
Weigh bridge & Magazine (including its safety area)	0.135
Retaining wall	0.076
Drains	0.262
Gully plugs	0.012
In active dump/dump stabilized with plantation	1.540
Settling tanks (9 nos)	
Safety zone/green belt (plantation)	0.050
Virgin area/area untouched.	13.104
Total	60.80

(f) Method of Mining:

Conventional open cast by mechanized mode of operation.

(g) Method of Mineral Processing:

There is no mineral processing of iron ore involved in the mine. However, crushing and screening of ore is carried-out to the specific size as per the buyers demand in the mobile crushing and screening plants located both inside and outside the lease area.

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1.1 Reasons for closure

Mining lease was granted in the year 1992 and mining operations were commenced from November 1996 and mining operations will be continued till conceptual stage. The final mine closure plan will be submitted as per the norms laid down by the IBM, at the time of closure of the mine, one year before intending closure.

The mine may be closed due to the following circumstances

- a. Exhaustion of mineral
- b. Lack of demand
- c. Uneconomic operation
- d. Natural calamity
- e. Direction from statutory organization or court.

1.2 Statutory obligations

As per the directions of the Indian Bureau of Mines, this progressive mine closure plan is being submitted. However, all the statutory obligations prevailing at the time of final closure and the Rules and Regulations from the State Government, such as Department of MOEF/State Forest, DGMS,

IBM, Labour Department will be abided /followed.

1.3 Name & address of applicant & RQP preparing closure plan

Address : M/s. Transit Surveys.

121, "Survey House", 2nd Cross, Nehru Colony, Bellary – 583 103, Karnataka,

Phone : 08392 - 255526

Fax : 08392 - 254773

E-mail : transitsurveys@gmail.com Regn. No. : RQP/BNG/113/97/B

Date of grant/renewal: 06.03.1997
Valid upto : 25.08.2021.

Copy of the RQP certificate is enclosed vide Annexure X

1.4 Name of the executive agency

The executing agency is the lease holder i.e., M/s. Stickumars amy Mineral Exports Pvt. Ltd. At the time of final mine closure, copy of resolution from appropriate administrative authority, as the case may be, taking the decision of final closure of mine shall be submitted.

2.0 MINE DESCRIPTION

2.1 Geology

(i) Regional Geology

The Bellary – Hospet region forms part of the 'Sandur Schist Belt', referable as, the "Dharwars", a group of Precambrian schistose rocks of Mysore. The lithological units include greenstones which are the metamorphosed basic igneous rocks occupying the valley regions, with Phyllite-Quartzite's forming the canoe-shaped amphitheater of hills, trending NNW—SSE and enclosing Sandur. The Phyllites are locally Shaly and the Quartzite's are of the nature of Banded Hematite Jaspers, and Banded Hematite Quartzite's, inter bedded with each other. The Banded Hematite Jaspers, the important source rocks for the Iron ores in the area are prominent in the Northern and Western part of the ranges, whereas the associated Shale's become prominent in the Southern and Eastern parts of the area. The Iron ores form a capping over the Quartzite's and Shale's and overlie a sequence of Manganiferous phyllitic rocks. Lateritisation is widespread in most of the flat-topped ridges.

Structurally, the Sandur hills form a tightly folded synclinorium, plunging gently to NNW and the hill ranges broadly delineate the folded limbs of synclines, with close repetition of strata due to minor folds. The strike of the ore bodies is generally parallel to the trend of the hill ranges; the dips are often steep, being vertical at number of places. Opposing dips towards

NE and SW are found as exhibited in the Ramanadurga and NEB respectively.

The Iron ore deposits of NEB range form part of the Bellary-Hospet group of Iron ore deposits and occupy the Northern tip of San tur Synclonorium.

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(ii) Local Geology

The general sequence of rock formations found in the area are, as, given below:

- -- Soil Cover
- Ferruginous Shales/Phyllites
- -- Iron ore formation
- -- BHQ
- -- Shale/phyllite

In general, the strike of the iron ore formation is due NW-SE with high angle of dips towards South-West, with an amount of dip varying from 53° to 60°. Intermittently, at places where ore is contacted with BHQ, shale, etc., dip angle is observed from 70 ° to 75 °.

2.2 Reserves and life:

Considering 7.90 million tonnes of mineable iron ore reserve and sub grade stacks of 1.53 million tonnes at the rate of 0.64 mtpa iron ore production, the life of the mine will be about 15 years. However, after completion of the proposed exploration, the reserves position will be reviewed and accordingly the life of the mine will be recalculated.

2.3 Mining Method

At present, the mine is being operated by open cast mechanized method.

2.4 Mineral Beneficiation

There is no processing of iron ore involved in the mine. However, lessee is doing crushing and screening of the ore to the specific sizes as per the buyers demand in dry screening plant.

- 3.0 REVIEW OF IMPLEMENTATION OF MINING PLAN/SCHEME OF MINING INCLUDING FIVE YEARS PROGRESSIVE CLOSURE PLAN UPTO THE FINAL CLOSURE PLAN
- 3.1 Name of the Mine: Ramanadurga Iron ore Mine (M. L. No. 2141).

- Mining plan was prepared for an area of 82.55 Ha. and approved vide letter No. 279/97/89/BNG dated 07.03.1990. Subsequently Mining scheme was prepared & approved vide letter No. 279/97/89/BNG dated 13.05.1999. Further mining scheme was prepared and approved for a production capacity of 0.48 million tonnes per annum vide letter No. MP/BLR/Fe-33-SZ dated 06.06.2003. Subsequently modification in the approved scheme of mining was prepared for the production capacity of 2.0 mtpa and approved vide letter No. MS/BLR/Fe-33-SZ dated 18.04.2006. Further, modifications in the approved mining plan was prepared for an area of 60.80 Ha. and approved vide letter no. MP/BLR/Fe-145-SZ dated 17.08.2009.
- 3.3 Date of commencement of Mining Operation.
 Mining operations were commenced since November 1996.
- 3.4 Review of compliance Position of Mining Plan/Scheme.
 - (a) Deficiencies, if any, that existed in the Approved Mining Plan to be taken note-off and rectified by incorporating suitable proposals for implementation in the scheme of mining No deficiencies were existed in the approved mining scheme and modified mining scheme.
 - (b)Review of compliance Position of Salient features of the Mining Plan/Scheme on chapter wise basis, bringing out marked deviations, if any, and justifications/reasons thereof. Items to be covered may include exploration, mine development, exploitation, afforestation program, reclamation and rehabilitation, control of dust, noise and ground vibrations and any other significant features.
 - i) Exploration:
 It was proposed to drill 18 bore holes in the lease area upto March-2012.
 So far 16 core boreholes and ore bore hole (DTH) were drilled and the details are enclosed vide Annexure-XV. Copies of chemical analysis reports obtained from NABL accredited laboratory are enclosed vide

Annexure - XVI.

ii) Mine Development & Production

Table-33: Proposed V/s Achieved Development details during the period 2006-07 to 2010-11 are given in the Table below.

Unit: in tennes

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Year	Proposed	Achieved
2006-07	2,102,426	53,365
2007-08	2,491,152	559,487
2008-09	2,090,746	592,551
2009-10	348,769	430,514
2010-11	510,248	251,810
Total	7,543,341	1,887,727

Development has been achieved less against the proposal due to less production.

Table-34: Proposed V/s Achieved production details during the period 2006-07 to 2010-11 are given in the table below.

Unit: in tonnes

Year	Production		Sub-	grade
	Proposed	Achieved	Proposed	Achieved
2006-07	1,350,245	427,634	6,84,246	757,500
2007-08	1,353,004	478,711	6,85,644	627,500
2008-09	1,336,736	1,133,349	6,77,400	61,000
2009-10	1,516,254	312,488	473,831	-
2010-11	1,522,070	411,621	475,647	-
Total	7,078,309	2,763,803	1,196,786	1,446,000

Production has been done 39.04% against planned, due to delayed environmental clearance (obtained on 19.02.2008) and other problems.

During period 2006-07 to 2010-11, 1,446,000 tonnes of sub-grade mineral is estimated to be generated. Against this only 1,196,786 tons of sub-grade ore was generated, out of which 268,160 tons already utilized for blending with high grade and the balance quantity of 928,626 tons of sub-grade mineral dump is stacked separately for future blending. Total quantity of sub-grade ore available in the mine is about 1,530,000 tonnes.

iii) Environmental Aspects:-

Top soil - Storage, Preservation & Utilization:

The iron ore is associated with hard rock surface such as Later shales/phyllites & BHQ. The area utilized for mining operations during the scheme period was devoid of topsoil. Hence, topsoil was not proport to be handled and accordingly was not generated and stored.

Land Reclamation & Rehabilitation:

It was proposed to reclaim all the inactive dumps and 5.5 Ha. of the new dump by planting Agave, Acacia, Gulmohar and Hamata grass species during the scheme period. Accordingly, the plantation was carried-out for stabilization of dumps. The details are given below.

Afforestation:

Table-35: Following table shows year-wise area and number of saplings proposed for plantation and actually planted during the respective years of mining scheme period.

	Afforestation				
Year	Proposed		Achieved		
	No. of plants	Area Covered in Ha.	Agave	Plants	Area Covered In Ha.
2006-07	28,000	0.70	20,000	20,000	
2007-08	28,000	0.70	10,200	10,000	
2008-09	28,000	0.70	10,000	10,000	8.70 Ha.
2009-10	47,180	1.11	35,000	15,000	
2010-11	47,185	1.11	90,000	15,000	
TOTAL	120,000	4.32	70,200	75,000	8.70 Ha.

So far, 265,200 Agave and 148,850 other plants were planted in an area of 8.70Ha. along with 10,000 agave and 15,000 other plants were planted in the out-side the lease area. The location of the plantation carried-out is depicted on environment plan (Plate No. 8). The photographs enclosed vide Annexure-XXV showing the workings, common boundary, retaining walls, garland drain, settling tanks, sub-grade stack near the office and the stabilized dumps and afforestation carried-out.

Quality of Air:

Following preventive measures were proposed for the mining scheme period for control of dust:

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- Well designed blast by effective stemming and use of optimum charge.
- Construction of well designed haulage roads with side drains and afforestation on both sides.
- Haul roads and service roads will be graded regularly to clear accumulation of any loose material.
- Development of green belt along the safety barrier, plantation on waste dumps.
- Drilling by using dust extractors.
- Sharp drill bits will be used for drilling holes.
- Blasting during high windy periods will be avoided.
- Overloading of trucks to avoid spillage on the roads.
- Tippers engaged in carrying ROM/ore will be ensured for their leakage, their environment fitness like PUC etc.
- ROM/ore carrying tippers will be covered with tarpaulin to avoid generation of air borne dust into the atmosphere.
- Regular monitoring of air quality to take mid-course necessary steps to keep the pollution with in permissible limits.

Accordingly the above measures were practiced as proposed and the air quality levels are within the permissible limit.

Control of Noise and Vibration:

The following abatement measures were suggested/proposed in the mining scheme to regulate the noise levels are followed.

- In core zone, workers are provided with ear-muffs and ear plugs for their protection.
- Proper and regular maintenance of vehicles and other mining equipments etc.,

Thick foliation trees planted along the roads, around crushing screening plants.

By the use of optimum charge in each hole and millisecond detonators the vibrations are kept under control.

Quality of make-up water including surface and ground water. Following measures were proposed in the mining plan period to maintain the quality of surface and ground water.

- No surface and ground water bodies are available in the area other than rain fed contour drains.
- It is proposed to draw water for dust suppression, green belt development from the bore wells located at general ground level.
- The retaining wall of 3586m length has been proposed upto the plan period to protect dump wash off during rainy season.
- Three gully plugs and three check dams will be constructed during the plan period to recharge the ground water table.
- It is proposed to desilt the silt deposited in the check dams and gully plugs every year.

Accordingly above measures were practiced as proposed and the water quality levels are within the permissible limit. So far, 512m length retaining wall is constructed.

(c) Review of Compliance Position of conditions and stipulations imposed, if any, while approving Mining plan/Scheme. In case non-compliance, partial compliance, detailed justification reasons thereof may be furnished along with proposal for compliance in ensuing period:
While approving the scheme of mining following condition was imposed:

(i) A copy of EIA/EMP report approved by MoEF, New Delhi, should be submitted to the Controller of Mines as well as Regional Controller of Mines, Bangalore, within one month of its approval along with copy of their approval letter.

Accordingly a copy of EIA/EMP report approved by MoEF, New Delhi was submitted to the Controller of Mines as well as Regional

Controller of Mines, Bangalore, along with copy of their approv

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(ii) The company shall establish environmental monitoring cells. Environmental monitoring cell of the company shall continue monitoring ambient air quality, dust fall rate, water quality, soil sample analysis and noise level measurements on various, stations established for the purpose both in the core zone as well as in buffer zone as per Environment guidelines and keeping in view IBM circular No.3/92, season wise every year by engaging preferably the services of an Environmental laboratory by MOEF/ CPCB approved laboratory. The data so generated shall be maintained in a bound paged register kept for the purpose and the same shall be made available to the inspecting officer on demand.

Accordingly, Company has established environmental monitoring cell with qualified personnel under the control of Mines manager as head consisting Assistant mines manager, Mechanical engineer and foreman as members. Company has continued monitoring ambient air quality, dust fall rate, water quality, soil sample analysis and noise level measurements on various stations established for the purpose both in the core zone as well as in buffer zone as per Environment guidelines and keeping in view IBM circular No. 3/92, season wise every year by engaging the services of an Environmental laboratory approved by MOEF. The data so generated is maintained in a bound paged register kept for the purpose

(d) Review of compliance of violations pointed out after inspections made under MCDR, 1988 during the last five years. The position emerging out of the yearly review of mining plan/scheme while checking up implementation in the field shall also be taken note of at this stage:

Violations were pointed letter No. KNT/BLR/Fe-408/BNG/863 dated 20.05.2010 and complied with letter No. SKME/IBM/M-5/2010 dated 18.06.2010.

(e) Any other points requiring attention in the interest of proper Mine design, Development, Conservation and Environment & Ecology of the area:

Nil

4.0 PROGRESSIVE CLOSURE PLAN

4.1 Mined-out land

Iron ore is existing in the pit and will not exhaust during the plan period. Table-36: The area proposed to be put to use during plan period is as follows.

Particulars	Present (Ha.)	Plan Period	1st Scheme period	Conceptual Period
Area for mining	28.000	28.00	34.68	41.656
Area for dumping	3.020	4.48	10.80	11.946
Area for sub grade stacks	5.020	3.56	1.52	2.135
Area for mineral stacks (within the pit area)	4.130	4.13	-	-
Area for roads (includes 1.13 Ha. of approach road)	5.000	5.00	5.00	1.473
Statutory buildings	0.451	0.451	0.451	0.650
Weigh bridge	0.095	0.095	0.095	
Magazine (including its safety area)	0.040	0.040	0.040	-
Retaining wall	0.076	0.492	0.492	
Drains	0.262	0.943	0.943	
Gully plugs	0.012	0.012	0.012	
In active dump/dump stabilized with plantation	1.540	1.540	1.540	
Settling tanks (9 nos)	_	0.405	0.405	, -,
Safety zone/green belt (plantation)	0.050	1.830	2.49	2.490
Virgin area/area untouched.	13.104*	9.822	2.332	0.45*
Total	60.80	60.80	60.80	60.80

* Virgin area: Out of 13:104 Ha., for retaining walls 0.416 Ha.; for drains 0.681 Ha., for settling tanks 0.405 Ha. and for safety zone/green belt plantation 1.78 Ha. total 3.282 Ha. will be utilised during the plan period for implementation of approved R & R Plan. Hence the balance virgin area at the end of the plan period will be 9.822 Ha.

4.2 Water Quality Management

(i) Existing surface and ground water available in the area: There are no surface water sources with-in the core zone. The drainage pattern of the area is sub-dendritic in nature. During monsoon the rainwater is drained through the natural valleys the NE slope.

The ground water in the buffer zone area is tapped for irrigation and drinking purposes. Workings will not intersect the ground water table within the lease area, as the mining lease area is situated at an elevation of 360m above general ground level. Water table is about 50m below the general ground level.

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- (ii) Measures to be taken for the protection of same including control of erosion sedimentation, siltation, water treatment, diversion of water courses:
 - (a) So far, Four check dams in the valley emanating/draining the surface runoff from the lease area are constructed, retaining walls are constructed around the foot of the dumps. 74 gully checks are constructed, along the nallah before check dams. on Plate No. 6A to 6E.

Table-37: The following engineering measures are proposed during the plan period.

Year	Protective Measures				
	Retaining walls Dimension in mts. (L X W X H)	Garland drains Dimension in mts. (L X W X H)	Settling tanks Dimension in mts. (L X W X H)		
2012-13	900 X 1.5 X 3	3405 X 2 X 1	9 Nos. (30 X 15 X 3)		
2013-14	900 X 1.5 X 3	-	-		
2014-15	900 X 1.5 X 3	-	-		
2015-16	443 X 1.5 X 3	-	-		
2016-17	443 X 1.5 X 3	-	-		
Total	3586 X 1.5 X 3	3405 X 2 X 1	9 Nos. (30 X 15 X 3)		

In addition to the above, existing environmental protective measures (check dams, gully checks, retaining walls, trenches etc.,) will be maintained.

(iii) There is no requirement of hydrological studies as there is no proposal of drawing water except for dust suppression, watering the saplings and therefore no water balance chart is required. There is no acid mine drainage potential as it is an iron ore mine.

- (iv) It is proposed to draw water for dust suppression, green be development from the bore wells located at general ground-level on payment.
- (v) The quantity of water required for the above purposes may be about 160 kl/day during peek summer.
- (vi) The quality of water is given in the Annexure- XXIV Analysis of water samples found that all the parameters are with-in permissible limits.
- (vii) Further it is proposed to de-silt the check dams silt settling tanks before and after monsoon season and the silt material will be used for plantation purpose.

4.3 Air Quality Management

Air Quality status is given in Annexure - XXIV. Proposed corrective and preventive measures are detailed as below:

- Water spraying on haul roads, around crushing & screening plant, transportation roads of villages, mist spray at plant etc would be 20 trips per day of 8,000 lts/trip to suppress the dust emission.
- Truck engaged in the mine are regularly checked for their environmental fitness like pollution under control and fitness.
- Development of green barrier along the entire haul road, waste dumps and around statutory buildings.
- Construction of well designed haulage roads with side drains and afforestation on both sides.
- Haul roads and service roads will be graded regularly to clear accumulation of any loose material.
- Overloading of tippers will be strictly avoided so that there is no spillage on the public road and waste of non-renewable resources.
- Iron ore carrying tippers are covered with tarpaulin before allowing them on the main roads.
- Sharp drill bits will be used for drilling holes.
- Drilling by using dust extractors will be continued.

 Well designed blast by effective stemming and use of optimum charge will be continued. \bigcirc

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- Blasting during high windy periods will be avoided.
- Crushing & screening plants will be regularly maintained.
- Eco-friendly backfilling of mined-out area will commence from third five year period to prevent dust getting airborne. Unlike dust getting airborne from surface dumps.
- For safety of workers at site, engaged at strategic locations/dust generation points like loading and unloading points, crushing & screening plant etc. Personnel Protective Equipment (PPE) would be provided and will be ensured to wear them regularly.
- All drivers and HEMM operators will be given on the job training for their effective driving/operation for judicious use of non-renewable resources.
- Regular monitoring of air quality to take mid-course necessary steps to keep the pollution with-in the permissible limits.

4.4 Waste Management

- i. Type of overburden/mineral rejects: The waste includes Laterite, shale/phyllite.
- ii. Quality: The quality is non-toxic.
- iii. Quantity: the overall ore: overburden/waste ratio for the plan period is estimated and is about 1:0.13. Therefore, to produce about 2.95 million tonnes of ore and retrieval of 0.25 million tonnes of sub-grade, about 0.374 million tonnes of waste to be handled, during next five
- iv. Disposal practice: During the first five year plan period, waste generated will be disposed at the pre-designated sites, selected taking into consideration that they are stable and of adequate capacity. The maximum height of waste dump will be kept as 30m and step dumping will be adopted. It is further maintained that at any given point of time only one dump will be active. After reaching the maximum height, the dump will be stabilized concurrent to mining.

4.5 Top soil Management

The proposed mining zone of iron ore is associated with laterity shales/phyllites and BHQ. There is no soil cover in the mining area.

4.6 Tailing Dam Management

Not applicable.

4.7 Infrastructure

The mine is located at about 7.5 kms from Sandur town. Mine is having ambulance, along with separate vehicles for staff and Manager. The approach road is good and approachable in all seasons. Mine is equipped with crushing and screening plant, mine office, magazine, store and canteen etc. Their future utilization will be evaluated, before such closure is planned and measures will be taken for their physical stability and maintenance. Dismantling & disposal will be thought-off & taken before final closure. The plant will be dismantled during final closure and sold as scrap with-in six months. The statutory buildings will be given to The State Forest Department, if they want to maintain, other wise dismantled and debris will be removed and plantation will be carried-out as per the advice of State Forest Department. The approach roads also will be subjected to plantation. These works will be completed tentatively with-in one year after cessation of mining operations.

4.8 Disposal of Mining Machinery

There is no proposal for disposal of mining machinery at present. However, if required, the machinery will be disposed off by solling and new machineries will be purchased. The final decommissioning of mining machinery and their possible post mining utilization will be given in the final mine closure plan to be submitted one year before the intending date of final closure.

4.9 Safety & Security

Before any closure, for any reason what so ever, arrangements will be made,

a) To fence off the access to pits & other dangerous areas/plant etc. if men & animal.

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- b) To post watch & ward, where such effective blocking is not possible.
- c) Periodical inspection to make sure of arrangements in their proper place & effective.

The visitors will be allowed to enter the mine area only with permission. The detailed arrangements proposed during the mine abandonment and upto the site being opened for general public will be given in final mine closure plan to be given one year in advance from the date of the intended mine closure.

4.10 Disaster management & risk management:

The aim of disaster management is to identify potential dangers associated with the mining operations like:

- a) Drilling & Blasting
- b) Loading
- c) Hauling
- d) Dumping
- e) Storage and use of explosives, HSD, industrial gases, electricity etc and other associated problems like,
 - 1) Slope stability/slides of benches/dumps
 - 2) Fire of forest/HSD-lubricants/ Explosives/ Electricals
 - 3) Major accident
 - 4) Explosion.

An important element of mitigation is emergency planning. i.e. recognizing that accidents are possible, assessing the consequences of such possible accidents and deciding on the emergency procedures, in advance, both on-site and off-site, that would need to be implemented in the event of an emergency, systematically and without delays and confusion.

Maintenance of proper bench geometry, observing safety precautions for transport, proper storage, safe handling and use of explosives and fuel etc., good maintenance of roads and transport turits, fire prevention measures, good dump management, shall go a long way in preventing accidents/disasters.

Mining will be carried-out strictly as per MMR 1961 and all other rules and regulations. Proper training will also be given to the work persons periodically at group V.T. Center, Sandur, as per DGMS rules. The hearest town is Sandur, which is 7.5 kms from the mine, where the fire brigade station, hospital and police station are located.

The management is committed to identify possible causes for the potential disasters and draw a code of emergency measures and procedures to deal with such disasters, which is otherwise also advised by DGMS through their periodic circulars.

Mines Manager is the person responsible for the disaster management and he needs to be contacted in case of any disaster.

The details are as follows:

(i)Name: Sri. Bharath Kumar R.S.

(ii)Phone No. : +91 9449841930

(iii) Address : M/s. Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Mine Owners and exporters, No. 54/J, III Main, Parvathi Nagar, Bellary-583103, Karnataka State.

4.11. Care & Maintenance during temporary discontinuance

An emergency plan to deal with the situation of temporary discontinuance or incomplete programme due to Court order/due to statutory requirements or any other unforeseen circumstances will be drawn by the technical & managerial personnel to suit the specific situation of this mine. This will be reviewed & modified to suit changing conditions and needs. This would take care of preventing of access to dangerous places, pits and preventing accident fall into the pit of animals & men. Security is also to be looked into the safety measures placed at various places like firefighting equipment, switchgear etc.

The following specific measures are taken,

- (i) Proper and adequate security at the entrance/exit to the mine to prevent entry of unauthorized person with proper gates under lock.
- (ii) Top edges of the quarry will be fenced off with approved type of fencing.

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- (iii) Entrance to the toe of dumps will be blocked.
- (iv) Special security and fire preventing measures are taken at dangerous places/explosive magazine etc.
- (v) All the above will be examined by mines manager once in a week to ensure that they are in order.

5.0 ECONOMIC REPERCUSSIONS OF CLOSURE OF MINE & MAN POWER RETRENCHMENTS

The details of retrenchments shall be given in the final closure plan, as it is not applicable at this stage. However few salient features to some extent is briefed below:

5.1 Number of local residents employed in the mine, status of the continuation of family occupation and scope of joining the occupation back

The local people employed are about 162 people. Apart from these, their respective employers will redeploy the people, who are employed indirectly.

Those who are directly employed are basically from agriculture background and local community, they will be put back to their original occupation. Necessary counseling will be extended. However the details will be given in final mine closure plan, one year before the intending final closure.

5.2 Compensation given or to be given to the employees connecting with sustenance of himself & their families

Compensation as provided in the statute will be given, at the time of final mine closure to the eligible persons.

- 5.3 Satellite occupations connected to the mining industry number of persons engaged there in continuance of such business after mine closes. Most of the satellite occupations connected to the mining industry are not affected due to closure or otherwise of the mine. Managerial, technical supervisory staffs are likely to get employment within a reasonable period. Local labour can support themselves by joining other members of family in their traditional occupation.
- 5.4 Continued engagement of employees in the rehabilated status of mining lease area and any other remnant activities
 Security & essential service people will continue to be employed for a purely short term/temporary closure. Where operations are discontinued for longer period, it is not viable to continue with their employment and so these will be reduced to minimum, counseling will be extended for their rehabilitation.
- 5.5 Envisaged repercussions on the expectation of society around due to closure of mine
 There will be effect on their economy, communication, transportation to some extent, but still these difficulties will be manageable to large extent.
 The details will be given in the final mine closure plan.

6.0 TIME SCHEDULE FOR ABANDONMENT

The life of the mine would be about 15 years at the rate of annual production of 0.64 million tones. After completion of the proposed exploration, the reserves position will be reviewed and accordingly the life of the mine will be recalculated. This shall be detailed in Final Mine closure plan whenever it is to be prepared i.e., when it is decided to close.

Table-38: EAR-WISE PROPOSAL FOR ITEM NO. 6 & 7 OF PMCP (FOR FIRST YEAR)

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	(vi) Picnic Spot		•		1	•
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Table-39: Y AR-WISE PROPOSAL FOR ITEM NO. 6 & 7 OF PMCP (FOR SECOND YEAR)

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Table-40 YEAR-WISE PROPOSAL FOR ITEM NO. 6 & 7 OF PMCP (FOR THIRD YEAR)

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Table-41: Y AR-WISE PROPOSAL FOR ITEM NO. 6 & 7 OF PMCP (FOR FOURTH YEAR)

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Table-42: EAR-WISE PROPOSAL FOR ITEM NO. 6 & 7 OF PMCP (FOR FIFTH YEAR)

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PROPOSED EXPENDITURE (Rs.)	5	1	1		1	1	ı	142,976		10,36,620	1		1	1	40,000		35,000	- Control	A CONTRACTOR OF THE PARTY OF TH	Anna Care	200,000		C C C C C C C C C C C C C C C C C C C	· ≥ 3′ 	19 J
PROPOSED QUANTITY	4	1	1	1	1	ı	ŀ	142,976 tonnes	1	443m			1		800		700			•	1	-			
PROPOSED AREA (HECT)	3	•	1	,			1	0.88	1	0.066			1		0.308		0.354			1	1	1,	-	•	
TAILS	2		on backfilled area	se specify)		(v) Converting into water reservoir				of parapet	of Check Dams	llies etc.	of Settling ponds,	ettling ponds,	sdump uo u	ase specify)	(green belt	e Specify)	Quality	ý	Survey		e Specify)		
DI		(i) Backfilling	(ii) Afforestation	(iii) Others (Plea	(iv) Pisciculture	(v) Converting i	(vi) Picnic Spot	(i) Terracing	(ii) Pitching	(iii) Construction of parapet // Retaining Wall at toe of dumps.	(iv) Constructio	along slope of v llies etc.	(v) Construction	(vi) Desilting of	(vii) Afforestatio	(viii) Others (Ple		(ii) Others (Plea	(i) Ambient Air	(ii) Water Quali	(iii) Noise Level	(iv) Soil Quality	(v) Others (Plea		
ITEMS	1	9 INCIENS AND TOTAL AND	(A) KECLAMATION & DELIARITATION &	OF MINED OFF	PIT/ I AND/	AREA		(B) STABILIZATION &	REHABILITATION	OF DUMPS (within lease)							(C) REHABILATATION OF BARREN AREA		(D) ENVIRONMENTAL (i) Ambient Air	MONITORING	(Core zone &Buffer (iii) Noise Level	zone Separately)		Total	

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7.0 ABANDONMENT COST

At present abandonment does not arise, accordingly, there is no abandonment cost as such. However, it will be given in the final mine closure plan, to be given one year before the intending closure.

Table-43: The approximate abandonment cost is made for plan period in progressive mine closure plan, for accounting purpose is given below.

Sl.No.	Double 1	Amorent
31.110.	Particulars	Amount in Lakh
1.	Site safety	5.00
2.	Mitigation measures	2.00
3.	Reclamation & rehabilitation including waste management and afforestation	281.00
4.	Maintenance & monitoring cost	25.00
5.	R & D administration & management	433.00
6.	Other cost	4.00
	Total	750

Total abandonment cost for the plan period is Rs. 750.00 lakhs i.e., about Rs. 150 lakhs/annum.

Table-44: The tentative abandonment cost for the final closure plan is given below to make provision in the accounting system of the Company.

Sr.	Particulars	Amount
No.		(Lakh rupees)
1.	De-commissioning	2.50
2.	Removal of infrastructure	3.50
3.	Removal of plant & equipment	7.00
4.	Site safety	25.00
- 3.	white and the astres	5.00
6.	Reclamation & Rehabilitation including waste	165.00
	management & afforestation	
7.	Maintenance and monitoring cost	128.00
8.	R & D, Administration and Management cost	500.00
9.	Retrenchment cost	200.00
10	Miscellaneous cost	2.00
	TOTAL	1038.00

8.0 FINANCIAL ASSURANCE:

Table-45: Details of Financial Assurance for plan period is given in the below table.

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will	.					Control of the second
SI.		Are	a of land use (Net area
No.		Area put	Additional	Total	considered as	
	Head		requirement	(in Ha.)	fully reclaimed	for
	-	start of	during		and rehabili	calculation
		Plan	plan period			TO Hay
		(in Ha.)	(in Ha.)	· · · · · · · · · · · · · · · · · · ·	(in Ha.)	E (CD)
		A	В	C=(A+B)	D .	E =(C-D)
1	Area under Mining	28.000	-	28.000		28.000
2	Storage for top soil	-	-		-	-
3	Dumping	3.020	-	4.480	-	4.480
4	Sub-grade Mineral/ ore Dump	5.020	-	3.560	-	3.560
	Area for mineral stacks (within the pit area)	4.130	-	4.130		4.130
5	ST. Buildings	0.451	· _	0.451		0.451
6	Roads (includes 1.13 Ha. of approach road)	5.000	-	5.000	-	5.000
	Weight bride & Magazine (including its safety area)	0.135	-	0.135		0.135
	In active dump/dump stabilized with plantation	1.540	-	1.540		1.540
7	Railways	-	-	-		-
8	Green belt	0.050	1.78	1.830		1.830
9	Tailing pond	-		-	-	
10	Effluent treatment plant	-	-	-	_	-
11	Mineral separation	-	-	-	-	
	plant					
12	Township area	-	_	-	-	-
13	Protective Measures	0.350	1.502	1.852	-	1.852
14	Area for Future Use	13.104	-	9.822		
	Grand Total	60.830	3.282	60.80	_	50.978
	~~~~~~~~~					

Area put to use till 2016-17 is 50.978 Ha. At specified rate of Rs. 25,000/-per Ha. the financial assurance is Rs. 12,74,450/-. Copy of Bank guarantee is enclosed vide Annexure-XXVI.



Certificate duly signed by lessee is enclosed.



# 10.0 PLANS, SECTIONS ETC.

The required plans and sections are prepared and enclosed herewith and specific references are made in the relevant chapter as applicable.

(B. S. Nargund), (B. S.

2 M Ber 12/12

This Mining Plan is approved subject to the our cities; / stipulations Included the Wining Plan approval

खान नियंत्रक (द.आं) Controller of Mines (S. Z.) भारतीय खान ब्यूरी Indian Bureau of Mines बेंगलूर / BANGALORE

for TRANSIT SURVEYS,

(C.D. Prabhakar Reddy) Authorised Signatory, RQP/BNG/113/97/B.

# GOVERNMENT OF KARMATAKA

No.DMG/RML 2141/11-12/57/70

Office of the Director
Department of Mines and Goology
Khanija Bhavan, Race Course Road
Bangalore-1, did: 3 7 110 y

To Mrs. Sri Kumanustvamy Mitteral Experis No.24, 11 Link Parvethi Nugar, Bellany – 583 102.

Sin

Sub: Change of Company and me from M/s. Sri Kumaraswamy Mineral Exports to Mrs. SH Kumaraswamy Mineral Exports Pyte 1616., in respect of ML No. 2141 & dither colated records reg.

Rof. Grvn. leder Morth 55 MMRA 2011 dt:04-07-2011.
2) This Strougener Tom 5/2011. 2141 /11 12/5025-33.
Dtd:20-07-2011.

Your request regarding change of sempany's name from M/s, Sci-Kunnanswamy Wineral Expens to M/s. Sri Kunnanswamy Mineral Expens Pvt. Ltd., in respect of ML No.2141 has been considered as per Government latter under reference (1) and communicated the change of name to the concerned departments.

Yours faithfully,

DIRECTOR

Eng. letter V

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

(Shantean Guraddi)

ECT TRANSIT SURVEYS

B.S. NARGUND (11/8/18
Key Person

RQP/BNG/113/97/B

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Office of the Girector

Department of Mines and Géology

Khamija Bhavan, Race Course Road

Bangalore-1, 1981

To Deputy Director,

Dept of Mines & Geology,

Hospet.

Sir

Sub: Change of Company & name from M/s. Sri Kumaraswamy Mineral Exports to M/s. Sri Kumaraswamy Mineral Deports Extended to the Septential Sept

Ref: Goyt fetter No.CE 53 MMM 2011 dr04-07-2011.

M/s. Sri Kulmaraswamy Mineral Exports company has been incorporated in the name and style of M/s. Sri Kulmaraswamy Mineral Exports Pvt. Ltd., on 02-08-2010 and requested to make trecessary amendments in the records of the office duty submitting mentorandom of association and articles of association.

Government vide letter under reference accorded approval to make a second control of the second of the company have been incorporated in this office records and request you to make necessary changes at your end. Copy of the Government letterts enclosed here with:

Yours faithfully

DIRECTOR

- ITThe PCCF, Actriya Bhavan; Malleshwaram, Bangulore 560 003 2) The Secretary, Forests, Environment & Ecology, M.S. Building, Bangalore 0
- 3) The Regional Controller General, Indian Bureau of Mines, No.29, this battles Sub-urb, Chriguraspallys, 2nd Stage, Turnkur Road, Bangalore-22
- 4) The Deputy Commissioner, Bellary District.
- 5) The Conservator of Forests, Bellary Circle, Bellaty.
- 6) The foint Director of Mines Cafety, Goa Region, Dr.P.V. Kamat's Hous Pandi Road Reargao, Goa.
- 7) The Superinferided (DCB) Denving Branch.
- 8) Example rection, Head Office, Bangalore.

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GOVERNMENT OF KARNATAKA

#### **LEASE** MINING

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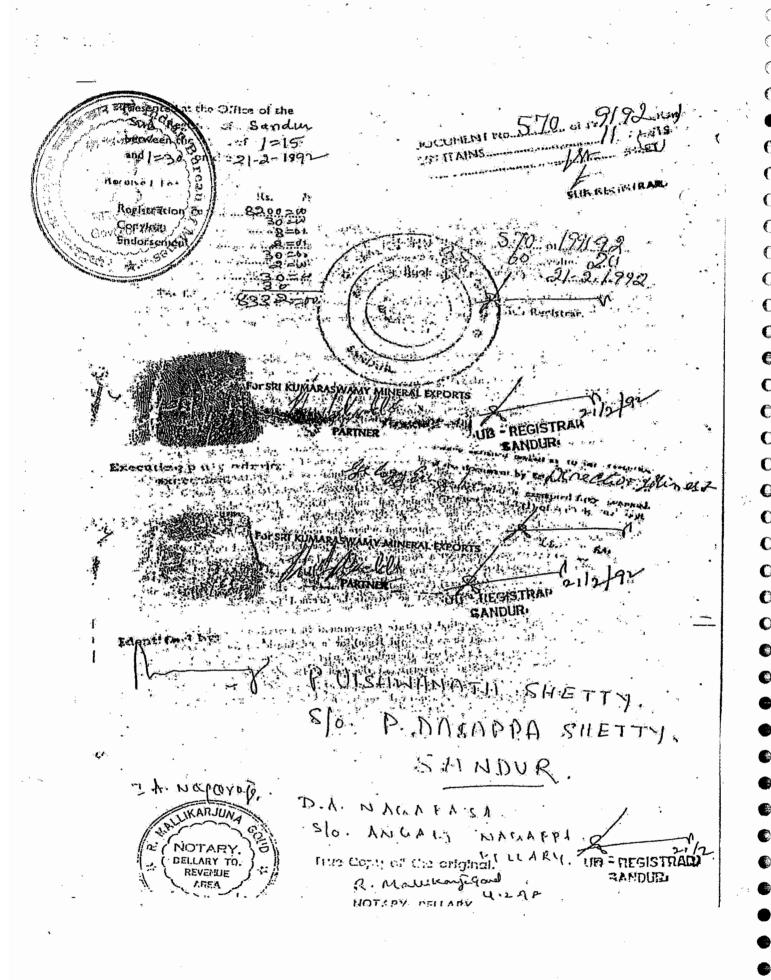
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R. Mallikanji Groud NOTARY, DELLARY, 4.2-9 8

For Sri. Kumarswamy Mineral Epports Pvt. Ltd.,

Managing Director.

For TRANSIT SURVEY



Witnessern that in consideration of the rants and royalties execuents and agreements by a d in these presents and the scheduled herein for written reserved and contained and at the parts of the lesses/lessess to be paid observed and performed, the State Covernment (with the abuse of the Control Covernment) hereby grants and demises anto lesses/lessess

All those the nimes, bods, withs, scame if.

All those the interest and in the scheduled referred to as the said nimesals) income and in the scheduled referred to as the said Scheduled together with the liberties, powers and privileges to be prevised or enjoyed in connection herewild another interested in part II of the said Schedule subject to the restrictions and conditions as to the Republished and enjoying and privileges which are mentioned in Part III of the said Schedule in Part and reserving out of this demiss upto the State Covernment the liberties, powers and privileges mentioned in Part IV of the Schedule IV II of the premises hereby granted and demised unto the lesses/lesses from the AND PAYING, therefor that the State Covernment the several rents and royalties mentioned in Part V of the said Schedule at the respective times therein specified subject to the provisions contained in Part V of the said Schedule at the respective times therein specified subject to the provisions contained in Part V of the said Schedule and the lesses/lesses hereby covernments/covernment with the State Government as in Part VII of the said Schedule is expressed AND it is hereby mutually agreed between the paptics hitherto as in Part IX of the said Schedule is expressed.

In witness wished the property have been excouted in number hereunder appearing the day

The Soludite above Tellerical to

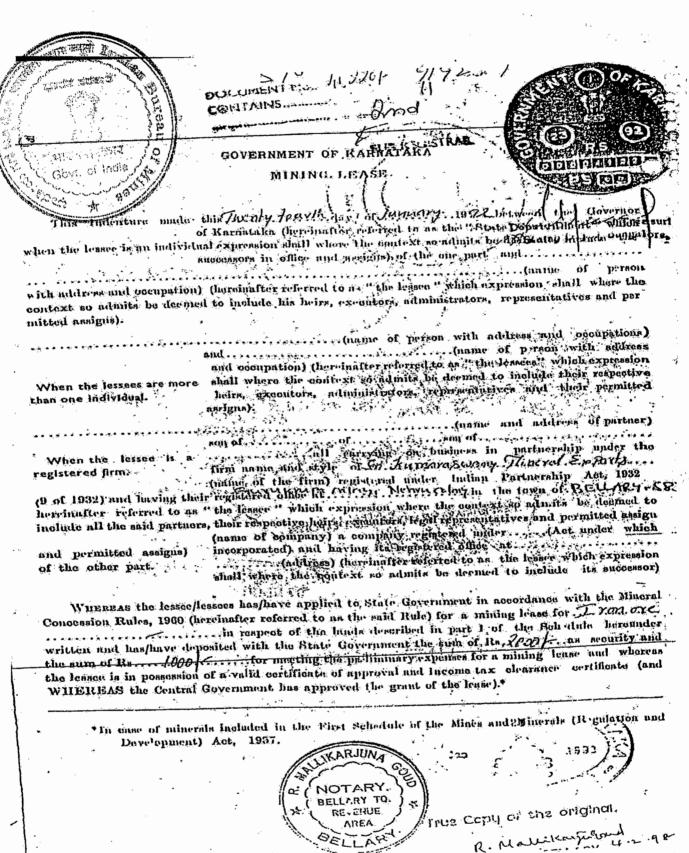
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In once of minerals included in the First Schedule of Mines and Minerals (Regulation and Development Act, 1957.)

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Powers and Privileges to be exercised and enjoyed by the Lessee/Lessees subject to the restriction and conditions in Part III.

lithracty and power at all times during the born hereby demissly light

enter upon land and s earch for win, work, etc.

REVENUE

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und to search for mine bore, dig, drill on with rocks they vert, earry away and disposit of the and disposit of TONI AINS ....

Liberty and power for or in connection with any of the purpose him hio Mar that drive, make, maintain, and use in the said hade prophiles drifts, levels, waterways, airways and other works land To sink, drive and make pits, shafts and inclines, etc. deopen or extend any existing works of the like intere in the said lands

Liberty and power for or in connection with any of the purposes amentioned in this part to erect, construct, maintain and use on or under the said lands any engines, machinery plant, dressing floors, furthoos, coke ovens, brick-kilus, works To bring to use machinery equipment, etc. shops, storchouses, burgalows, godowns, sheds and other buildings, and other works and conveniences of the like nature on or under the said lands

Lillierty and power for or in connection with any of the purposes mentioned in this part to make any tramways, railways, rouds, aircrafts landing grounds and other ways in or over the mid hands and to use; maintain and go and topus To make roads and ways, and use existing roads with or without harms, cattle, wagons, hirogaft, locomotive or other and ways. vehicles over the same (or any existing tramways, railways, reads and other ways in or over the said lands) on such conditions as may be agreed to

Liberty and power for or in connection with any of the purposes mentioned in this part to quarry and get atong greed and other building and road material and clay and to use und employ the same and to manufacture such To get building and road materials, etc. clay into bricks or tiles and to use mor bricks or tiles but not to sell any such inaterial bricks or tiles.

bibarty and power for or in connection with any of the purpose mentioned in this part subject to the rights of any existing or future lessees and with their To use water from strewritten permission of the Daputy Commissioner to appropriate and use ams, etc. water from any strender withresturses, springs or other sources 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, culverts, drains or reservoirs but not so us to deprive any cultivated lands, villages, buildings or watering places for livestock of a reasonable supply of water as before accustomed not in any way to foul or pollute any streams or springs; Provided that the lessee/lessees shall not interfere with the navigation in any navigable stream nor shall divert such athem without the previous written permission of the State Government.

Liberty and power to enter upon and use a sufficient part of the surface of the said lands for the purpose of stacking, heaping, storing or depositing thereon any he proster of tracking. produce of the mines or works carried on and any tools equipment, earth. and materials, and substances, dag or raised under the liberties and powers mentioned in this part. NOTARY BELLARY TO.

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and power to enter upon and use a sufficient part of the said lands to beneficiate convey- any ore produced from the said lands and to carry away such bene 1 ciated orc.

(6) Milliorty that power upon the mid-lands to convert into cake any cont or agal dust proliged from the said hands and to every away and make,

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B. Liberty and power for in connection with any of the purposes mentioned in this part and Fo make, coke (to be subject to the existing rights of others and save as provided in clause used in case of coal only).

To clear bright bod and 3 of part III of this Schadule to clear undergrowth and brushwood and to fell and undiscrete, etc. to fell and utilise any trees or timber standing or found on the said lands provided that the State Government may ask the lessec/lessees to pay provided that the State Government may not the Deputy Commissioner or the State Govt.

# PART NI Restrictions and conditions as to the exercise of the Liberties, Powers and Privileges in Part II.

1. No building or thing shall be erected, set ap or placed and no surface operations shall be carried on in or upon any public placeure ground, burning or burnal ground. No Buildings etc., upon or place held secret; by may class of persons or any house or risin places. Village alter, public road or other place which the State Government may certain places determine as finblic ground our in such demander as to injure or projudicially affect any buildings, works, proporty or rights of other persons and no land shall be used for surface operations which is already occupied by persons office that the State Government for work for purpose not included in this losses of The descrips sees think not also interfere with any right of way well or tank it

Before using for sursay opprations now hitely heliabilian not ofready boon used for such opera-Permission for surface tions the lesson/lessons shall give to the Deputy Commissioner of the operations in land not District two onlymbir inpoints provious notice in writing specifying the already in use name or other description of the situation and the extent of the land proposed to be so used and the purpose for which the same is required and the said land shall not be so used if objection is issued by the Deputy Commissioner within two mouths after the receipt by him of such notice unless the objections so stated shall on reference to the State Government be annulled or waived.

The leave flowers shill said willing the express sandalant of the Deputy Commissioner aut To cut trees in unreserved down or injure any, timber or trees on the said lands but may without not an injure any timber or trees on the said lands but may which lands such spacetion clear away any brushwood or undergrowth which interferes with any operations authorised by these presents. The Deputy Commissioner or the State Government may require the lessob/lessons to pay for any trees or timber felled and utilised by him/ them at the rates specified by the Deputy Commissioner or the State Governments

4. Notwithstanding anything in this behilfule contained the leasee/lessees shall not enter upon To enter upon reserved any reserved rosest included in the said lands without previous sanction in writing of the District Forest Officer nor fell, out and use any timber forest without obtaining the sunction in writing of that Officer nor otherwise than in accordance with or trees shoth Thoughtions us the State Covernment may prescribe.

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(4A) The losseo/lessees shall not fell any trees in any forest night covered remonable notice to the Forest Officer and except in accordance with the prostrate to forests for the time being in force!

The limans/lessees shall not work or carry on or allow to be worked it entries and this No mining operations with railway line except with the previous written permission of the in 50 metres of public works Administration concerned or from my reservoir consists of other etc.

works such as public rouls and buildings or high provious to the provious archives a see that the public rouls and buildings or high provider of the provious archives a see that the public rouls and buildings or high provider of the provious archives a see that the public rouls are the public rouls are the public rouls are the public rouls are the public rounds are the public roun the previous written permission of the Deputy Commissioner or an Fother officer autical State Government in this behalf and otherwise their in ascordance with first intercotons and conditions, either general or special which may be attached to such persons The said distance. of 50 metres shall be measured in the case of railway reservoir or canal horizontally from the outer of the bank or of the outer edge of the outting as the case may be and in case of a building horizontally from the plinth thereof. In the case of village roads no working shall be carried on within a distance of 10 matres of the outer edge of the cutting except with the previous permission of the Deputy Commissioner or any other Officer duly authorised by the State Coverament in this behalf and otherwise than in accordance with such directions restrictions and additions either general or special which may be attached to such permission....

Explanation. For the purposes of this chase the expression Railway Administration shall have the same manning us it is defined to have in the Indian Rullway Act, 1800, by Clause 0 of Section 3 of that Act, 'Public Road,' Shall mean a road which line bein constructed by artificially surfaced as distinct from a tract resulting from reported use. Village road will include any tract shown in the revenue records as village read,

6. The lesses/lessess shall allow existing and future holders of Government licences or leases over Facilities for adjoining Gov- any land which is comprised the of adjoins or is reached by the land held ernment licences and leases by the leases/leasees remountly facilities of access thereto:

PROVIDED THAT TO SUBstantial bindrance or interference shall be davied by such holders of licences or leases to the operations of the lease destor under this operate and fair compensation (as may be mutually agreed upon or in the event of disagreement to may be decided by the State Government shall be made to the lessec/lesses for all less or daming austained by the lessec/lessess by reason of) the exercise of this liberty:

Liberties, powers and Privileges reserved to the State Government

1. Liberty and power for the State Government or to any lessed or persons authorised by it in that behalf to enter into and upon the said lands and to search for win, work, dig, got, raise, dress, process, convert and carry away minerals other than the said minerals and any other substances and for those purposes To work other minerals to sink, drive, make, croot, construct, maintain and use such pits, shafts, inclines, drifts, levels and other lines waterways, nirways, water courses, drains, reservoirs; engines, machinery plant, buildings, canals, transways, railways, roadways and other works and conveniences as may be deemed necessary

men in the exercise of such liberty and power no substantial hindrance, or interference shot to Sulled to with the liberties, powers and privileges of the lessee/lessees under these present and privileges of the lessee/lessees under these present privileges of the avent of disagreement as may True Copy of the original.

REVENUE

be decided by the trate Government) shall be made to the lessee/lessees for all loss or damage sustained by the lustee the second by the lustee by reason or in consequence of the exercise of such liberty and power.

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2. Liberty and power for the State Government or any lesses or person authorised by it in that behalf to enteriate and upon the said lands and to make upon over through the mann any milways, transways, roadways, or pipuliness for any purpose other than those mentioned in part II of these prosents and to get from the said lands stones, gravel, earth and other

materials for making maintaining and repairing such railways, tramways and roads or any existing railways and roads and to go and repass at all times with or without horses, cattle, or other animals of the wagons coardages, locomotives, or other volucies over or along any such railways, tramways roads, lines, and otherways for all purposes and us occasions may require provided that in the exercise of such liberty and power by such other lessee or person, no substantial hindrance or interference shall be caused to or with the liberties powers and privileges of the lessee/lessees under these presents and that fair compensation (as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government) shall be made to the lessee/lessees for all loss or damage sustained by the lessee/lessees by reason or in consequence of the exercise by such lessee or person of such liberty and power.

### PART V

#### Rents and Royaltles reserved by this lease

1. The lease shall pay for every year except the lirst year of the lease yearly dead rent as specified To pay dead rent or royalty in clause 2 of this part increspect of each mineral; whichever is greater

PROVIDED THAT the lessees shall be liable to pay the dead rent or royalty in respect of mob minoral whichever is higher in amount but not both.

2. Subject to the provision of Clause 1 of this Part, during the subsistence of this lease the lesses/
lesses shall pay to the State Government annual dead rent at the following rate/rates or at such revised rate/rates which may be communicated in writing to the lesses/lesses by the State Government municated in writing to the lands demised and described in Part I of this Schedule,

Name of Mineral  Tran ore	Dead rent fixed per hectare	Area of demised land	payable	Total payable	Dead re In year
1 First year of the Printing 2 2nd to cot year of lease penal & 3 6th to 10th year of Bear and & 4 11th year agreement of the Book Frield	C EVER A	ied Test Pryfor Ist Ar Year	A	R.	3302.00 6604.00 1706-0

(Here insert the manner in which and the time at which the dead rent, surface rent and water rate should be paid).

3. Subject to the provision of Clause 1 of this Part, the lessee/lessees shall during the subsistence of this lesse pay to the State Government at such times and in such Rate and mode of payment of manner as the State Government may prescribe royalty in respect of any mineral/minerals removed by him/them from the lessed area at the rate for the time being specified in the Second Schedule to the Minerals (Regulation and Development) Act, 1967.

True Copy of the original.

R. Made Kanjistand

NOTAFY TO REVENUE AREA

(5-A) The leases/leases shall not remove any ores or minerals from the leased area except under and in accordance with the conditions or a permit issued by the Director of Mines and Geology in Mysore, on payment by the lesses/lessess of the royalty due on the ores or minerals

Payment of surface rent and water rate to the State Gorgiament in respect of all payment of surface rent and occupied or used by the lease of Rs. respectively per annum per Rolls. the area so occupied or used and so in proportion for any area less than a helicare during the period from the commencement of such occupation or use until the area shall cease to be so accumist as a second state.

from the commencement of such occupation or use until the area shell cease to be so eccupied or used and shall as far as possible the surface land so used to its original condition, (surface remains) water rate shall be paid as hereinbefore detailed in Clause (2) PROVIDED THAN her such tens water shall be payable in respect of the occupation and use of the area comprised in any ranks or which the public have full right of access.

5. Local Topes and other Carre, is prevalent in Bellong Bird-

### PART VI

## Provisions relating to the rents and royalties

1. The rent and royalties mentioned in Part V of this Schedule shall be paid free from any deductions to the State Government at Cyll M and in such manner as the State Government may Rent and royalties to be free proscribe PROVIDED ALWAYS and it is hereby agreed that from deductions, etc.

Rs. 259. the balance standing to the oredit of the lesses/lessees on account of the deposit made by him/them as a lessee/lessees over an area which included the said lands shall be retained and accepted by the State Government in satisfaction of the rents and royalties mentioned in Part V until they reach that amount.

2. For the purposes of computing the said royalties, the lessec/lessees shall keep correct account of the mineral/minerals produced and despatched account as Mode of compution of royalty well as the weight of the mineral/minerals in stock or in the process of export may be checked by any Officer authorised by the Central or State Government.

(Here specify the mode of arriving at sale price/prices at its mouth of mineral/minerals).

3. Should any rent, royalty or other sums due to the State Government under the terms and conditions of these presents be not paid by the lessee/lessess within Course of action if rents and royalties are not paid in time the prescribed time, the same may be recovered on a certificate of such Officer as may be specified by the State Government by general or special order in the same manner as an arrear of land revenue.

#### PART VII

### The Covenants of the lessee/lessees

1. The lessec/lessees shall pay the rent, water rate and royalties reserved by this lesse at such times a lessees to pay, rents-royalties and in the manner provided in PART V and VI of these presents and shall also pay and discharge all taxes, rates assessments and impositions whatsoever being in the nature of public demands which shall from time to time be charged assessed or imposed by the authority of the Central and State Government appear or in respect of the premises and works of the lessee/lessees in common with other promited and works a like nature except domands for land revenues.

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hoflessees shall at his/their own exponse erect and at all times maintain and keep in To maintain should be boun repair boundary marks and pillars according to the demarcation to jo dairy marks in good adder shown in the plan annexed to this lease. Such marks and pillars shall be sufficiently clear of the shrubs and other obstructions as allow casy identification.

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To commence operations commence operations, within one year from the date of execution of within a year aid work the lease and shall thereafter at all times during the continuance of this lease and shall thereafter at all times during the continuance of this lease and shall thereafter at all times during the continuance of this lesse gearch for, win, work and develop the said minerals without voluntary intermission in a skilful and workman like manner and as prescribed under clause 12 hereinafter without doing or permitting to be done any unnecessary or avoidable duringo to the surface of the said lands or the crops, buildings, structures, or other property For the purposes of this clause, operations shall include the erection of machinery laying of a transvery or construction of a roud in connection with the mine.

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

8. The lesse/lesses shall during the subsistance of this lease well and sufficiently secure and To secure and keep in good keep open with himber or jother durable means all pits shafts and condition pits, shafts etc. workings that may be made or least the shafts and workings that may be made or used in the said lands and make and maintain aufficient fences to the satisfaction of the State Government round every such pit, shaft or working whether the same is abandoned or not and shall during the period keep all workings in the said lands except such as any, be abindened accessible free from water and foul air as far, as physible. A 26 2 300 1

6. The lesseo/lessees shall strengthen and support to the satisfaction of the Railway administration concerned or the State Government, as the case may be, any part To strengthen and support mines to necessary of the mine which in its opinion requires such strengthening or support extent for the safety of any railway, reservoir, canal, road and any other public. works or structures.

The lessee/lessees shall slow any officer authorised by the Control Government or the State To allow inspection of work. Government in that behalf to enter upon the premises including any buildings, exervition or land comprised in the lease for the purpose of inspecting, examining, surveying and making plans thereof sampling and collecting any date and the lessec/lessees shall with proper person employed by the lessec/lessees and acquainted with the mines and works effectually assist such officer, agents, servants and workmen in conducting every such inspection and shall afford them all facilities, information connected with the . working of the mines which they may reasonably require and also shall and will conform to and observe all orders and regulations which the Central and State Governments as the result of such inspection or otherwise may from time to time see fit to impose.

8. The lesses/lesses shalt without delay send to the Director of Mines and Geology a report of any accident causing death or serious bodily injury or serious injury to eport accident ALLIKARJUN property or seriously affecting or endangering life or property which may occur TH course of the operations under this lease. NOTARY BELLARY TO.

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9. The lessee/lessees shall report to the State Government the discovery in the leased area of an increase of the nature and application of each such field in the lessee/lessees shall not win and dispose of such mineral upless such increase of the lessee/lessees shall not win and dispose of such mineral upless such injurial included in the lessee or a separate lesse is obtained therefor.

10. The lessee/lessees shall stall times during the said term keep or oatise to be kept at affice.

To keep records and account to be situated upon or near the ball dandsmorrest and sold gible books regarding production and of accounts which shall contain account Garriel and production and time to employees ere.

(1) Quantity and quality of the said mineral/minerals realised from the said lands.

- (2) Quantity of the various qualities of ores beneficiated or converted (for example coal converted into coke).
  - (3) Quantities of the various qualities of the said mineral/minerals sold and exported separately.
- (4) Quantities of the various qualities of the said mineral/minerals otherwise disposed of and the manner and purpose of such disposal.
  - (5) The prices and all other particulars of all sales of the said mineral/minerals.
- (6) The number of persons employed in the mines or works or upon the said lands specifying nationality, qualifications and pay of the technical personnel.
- (7) Such other facts, particulars and circumstances as the Central or the State Governments may from time to time require and shall also furnish free of charge to such officers and at such time as the Central and State Governments may appoint true and correct abstracts of all or any such books of accounts and such information and returns to all or any of the matters aforesaid as the State Government may prescribe and shall at all reasonable times allow such officers as the Central Government or State Government shall in that behalf appoint to enter into and have free access to the said officers for the purpose of examining and inspecting the said books of accounts, plans and records and to make copies thereof and make extracts therefrom.
- In the lesses/lesses shall at all times during the said term maintain at the mine office correct intelligible up-to-date and complete plans and sections of the mines in the said lands. They shall show all the operations and workings and all the trenches, pits and drillings made by him/them in the course of operations carried on by him/them under the lesse, faults and other disturbances encounted and geological data and all such plans and sections shall be amended and filled up by and from actual surveys to be made for that purpose at the end of twelve months or any period specified from time to time and the lesses/lessess shall furnish free of charge to the Central and State Governments true and correct copies of such plans and sections whenever required. Accurate records of all trenches, pits and drillings shall show:
  - (a) The sub-soil and strata through which they pass.
  - (b) Any mineral encountered.
- (c) Any other matter of interest and all data required by the Central and State Covernments from time to time.

The leasue/lusaces shall allow any officer of the Central or the State Governments authorised in this behalf by the Central Government, to inspect the same at all reasonable times. He/they shall also supply when parallel for by the State Government/the Coal Controller/the Director, Geolgical Survey of Jude the Director, Indian Bureau of Mines, a composite plan of the area showing thickness dip, inclination, etc., of all the seams as also the quantity of reserves qualitywise.

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Government of India under Section 18 of the Mines and Mines (Regulation and Development) Act, 1957 (Act 67 of 1957) and shall not than as prescribed under these rules.

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To provide weighing at all times keep at or near the pit head or each of the pit heads at which the said minerals shall be brought to benk a properly constructed the root of the git heads at which the said minerals shall be brought to benk a properly constructed the root of the gold minerals from time to time brought to bank sold, exported and coverted and also the gold exted products shall at the close of each day cause the total weights, ascertained by such manns of the said minerals, ores, products raised, sold exported and converted during the previous the State Government at all times during the said term to employ any person or persons to be present accounts kept by the lessen/lessees. This lessen/lessees and to check the notice in writing to the Director of Mines and Geology of every such measuring or weighing in order that he or some officer on his behalf may be present thereat.

To allow test of weighing machine or times during the said term to examine and weights used therewith in order to assertain whether the same such examination or testing may such weighing machine or weights or testing may such weighing machine or weights as aforesaid and the respectively are correct and in good repair and order and if upon any repair of the same such weighing machine or weights that the same such weighing machine or weights that the same such weighing machine or weights that the same such weighing machine or weights the same such weighing machine or weights the same such as the same such weights the same such as the same suc

respectively are correct and in good repair and order and if upon any such examination or testing my such weighing machine or weights shall be found incorrect or out of repair or order the State Government may require that the same be adjusted, repaired and put in order by and at the expenses of the lesses/lesses and if such require the pot complied with within fourteen days after the same shall have been made, the State Government may easies such weighing machine or weights to be adjusted, repair and put in order and the expense of so doing shall be paid by the lesses/lesses to the State Government on demand and if upon any such examination or teating as aforesaid any error shall be discovered in any weighing machine or weights to the projudice of the State Government such error shall be regarded as liaving existed from three calendar months previous to the discovery thereof or from the last occasion of so examining and testing the same weighing machine and weights in case such occasion shall be within such period of three months and the said rent and royalty shall be paid and accounted for accordingly.

To pay compensation for all damage, injury or disturbance of person or property which may be done to by or on the part of the lessee lesses in exercise of the liberties and claims and demands which may be demanded the State Government from and against all suits injury or disturbance.

Not to obstruct working of tion to the development and working within the said lands of any minerals not included in this lease and shall at all times afford to the concess or mining leases in respect of any such minerals within any minerals or any land adaptent to

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Poregraph (17 (2):

After the words to a person insert - ho the Il Fed W per the income tax returns, prid income tax anneanch on him and paid the income tax on the basis of self assessment as provided in the Income tax Act 1961 (42 of 1961) on payment of live interest rubes.

Tage (11) Part VII Paragraph (17) (2)

Second provise to paragraph 17 (2):

Provided further that where the Mortgages is an institution or a Bank or a Corporation specified in Schedule V 1t shall not be necessary for any such Institution/Bank or Corporation to meet with the requirement relating income tax.

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Director of Raines & Couloss

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the lossed lesseen shall not employ in countedion With the mining operations any person to lossed lesseen shall not employ in countedion with the mining operations any person of no Indian national except with the provious approval of

The Possed lessees shall not employ in countedsion with the mining operations any person who is not an Indian national except with the provious approval of Nicional Control Government.

23. If any of the works or matters which in accordance with the covernate, in that belief berein-Recovery of expenses incur- before contained are to be carried of performed by the lossed hances red by the State Government be not so carried out or performed within the spinit apsoided in that behalf, the State Government, may dause the same to be carried out or performed and the lesses/lessees shall pay the State Government on themselves which hall be incurred in shock carrying out or performance of the same and the designors the State Government as to such expenses shall be final. as to snoh expenses shall be final.

The lesses/lesses shall furnish.—(a) all geophysical data relating to mining field or engineering and ground water surveys, such as anomaly maps, sections, plans, Furnishing of Geophysical structures, contour maps, logging, collected by bim/them during the course of mining operations to the Director, Geological Survey of India, Calcutton,

2 海水龙 à (b) all information pertaining to investigations of radio series minerals collected by him/them

during the course of mining operations to the Scoretary, Department of Atomic Energy, New Delhi.

Data or information referred to above shall be furnished every year reckoned from the date of commencement of the period of the region of the region of the region of the region. commencement of the period of the mining house,

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# The Covenants of the State Government

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1. The leases/leases paying the rents; water rate and royalties hereby reserve and observing es/Lessees may hold and performing all the covenants and agreements herein contained and enjoy rights quietly on the part of the leasen/leasess to be observed and performed shall and lessee/Lessees may hold on the part of the lessee/lessees to be observed and performed shall and and enjoy rights quietly on the part of the lessee/lessees to be observed and performed shall and may quietly hold and enjoy the rights and premises hereby demised for and during [the term hereby granted without any unlawful interruption from or the State Government, or any person rightfully claiming under it.

2. If in accordance with the provision of Channel of the VII of this Schedule, the lessee/lessees shall offer to pay to air adolpter of the surface of any part of Acquisition of lands of third the said lands dompensation for and damage or injury which parties and compensation may arise from the proposed operations of the lessee/lessees and the said operation that the proposed operations of the lessee/lessees and the said occupier shall refuse his consent to the exercise of the right and powers reserved to the State Coverament and domised to the lossoc/lossocs by these presents and the lessec/lessees shall report the matter to the State Government and shall deposit with it the amount offered as compensation and if the Central/State Government are satisfied that the amount of compensation effered is fair and reasonable or if it is not so satisfied and the lessee/Ressees shall have deposited with it such further amount as the State and Central Governments shall consider fair and reasonable, the State Government shall order the occupier to allow the lessec/lessees to enter the land and to carry out such operations as may be heaven for the purpose of this lease. In assessing the amount of such compensation the Sate Covernment shall be guided by the principles of the Land Acquisition Act. NOTARY.

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Where the mining loase relates to any mineral not specified in the first splitting to the de shall be renewable for one period not exceeding the period specified To renew sub-section (2) of Section 8, at the option of the lessee Hessees :

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

If the land is in respect of minerals specified in the First Bohalale with Anticomagnitud by subject to the prior approval of the Central Government.

If the lessee/lessees be desirous of taking a renewal lesse of the premises bereby demised of any part or parts of them for a further term from the expiration of the term horeby granted and is otherwise eligible, he/they shall prior to the expiration of the last mentioned term give to the State Government 12 calendar months previous notice in writing and shall pay the rents, rates and royalties hereby reserved and shall observe and parform the several covenants and agreements herein contained and on the part of the lessoc/lessees to be observed and performed up to the expiration of the term hereby granted. The State Government on receipt of application for renewal, shall consider it in accordance with role-28, of the said rules and shall pass orders as it doesns fit. If renewal is granted the State Government will at the expense of the lessechessees and upon his executing and delivering to the State Government if required a counterpart thereof execute and deliver to the lessecolessees a renewed lease of the said premises or part thereof for the further term of 20 . years at such rents, rates and royalties and on such terms and subject to such rents, rates and royalties and on such terms and subject to such covenants and agreements, including this present covenant to renew as shall be accordance with the Mineral Concession Rules, 1960, applicable to Free Change of Mineral on the day next following the Expiration of the terms hereby granted).

- The lessec/lessees may at any time determine this lease by giving not less than 12 calendar months notice in writing to the State Government or to such officer, Liberty to determine the or authority las the State Covernment may specify in this behalf and upon the expiration of such motion provided that the lessee/lessees shall upon such expiration render and pay all rents; water rates, royalties compensation for damages and other moneys which may then be due and payable under these presents to the lessor or any other person or persons and shall deliver up these presents to the State. Government the lease and the said term and the liberties, powers and privileges hereby granted shall absolutely cease and determine but without prejudice to any right or remedy of the lessor in respect of any breach of any of the covenants of agreements contained in these presents.
- in. The State Government may on an application made by the lessee permit him to surrender one or more minerals from his less which is for a group of minerals on the ground that deposits of that mineral have since achanated or deplated to such an extent that it is no longer possible to work the mineral economically, subject to the condition that the lessee -
- (a) makes an application for such surrender of mineral at least six morths before the intended date of surrender; and
- (b) gives an undertaking that he will not onuse any hindrance in the working of the mineral so surrendered by any other person who is subsequently granted a mining least for that mineral.
- 5. On such date as the State Government may elect within twelve calendar months after the determination of this lease or of any renowal thereof, the amount of the Refund of security deposit accurity deposit paid in respect of this lease and then remaining in deposit with the State Government and not required to be applied to Any of the purposes mentioned in this lease shall be refunded to the leasec/leasecs. No interest shall rine on the conductity deposit. . True Copy of the original.

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The mining lease to renewabl to terminate in the province of the Act of the rule made there under

III- Paragraph-3. In the third Sub to the Sth line between the words "with" &" and " the fullowing shall be insected,

"the provisions of the Act and the rules "wade thereunder".

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(ix) in Form K, in PART VII, after classes clauses shall be inserted, namely:

"11A. The lessee shall pay a wage not dess wage prescribed by the Central of St from time to time;

11B. The lessee shall comply Hines Act, 1952;

11C. The lessee shall take measures for the protection of environment like planting of trees, reclamation of land, use of pollution control devices; and such other measures as may be prescribed by the Central or State Covernment from time to time at his expenses;

11D. The lessees shall pay compensation to the occupier of the land on the date and in the manner laid down in these rules.

11E. The lessee shall in the matter of employment give preference to the rribals and to the persons who become displaced because of the taking up of mining operations.

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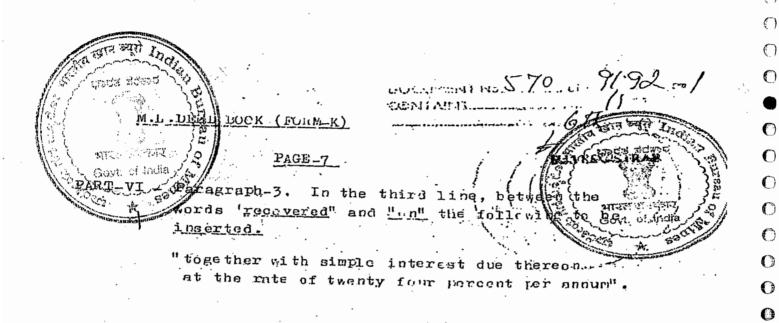
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1. In case the lossec/lossees or his/their transferce/assigne depolito not

by the Officers authorised by the Central Obstructions to Inspection clauses (i), (j) or (i) of sub-rule (i) kule 27 Government shall give notice in writing to

him/them to show cause within such time as may be specified in the notice why the lease at be determined and his/their security deposit forfeited; and if the essee fails/fall and within the aforesaid time to the satisfaction of the State Querniant, the State Appen determine the lease and forfeit the whole or part of the scourity deposite Gove of India

2. If the lessee/lessees or his/their transfered or assignee makes/make interferalition payment of rent or water rate or royalty as required by Scotion 2 of the Act of rent or commits a breach of any of the conditions and covenants other than Penalty in case of default in payment of royalty breach covenants those referred to in covenint (1) above, the State Government shall give notice to the leasenflessees requiring him/them to pay the rent water rate, royalty or remedy the breach, as the case may be, within sixty

days from the date of receipt of the notice and if the rent, water and royalty are not paid or the ch is not remedied within such period, the State Government may without prejudice to any proceedings that may be taken against him/them, determine the lease and forfeit the whole or part of the security deposit.

3. In cases of repeated breaches of covenants and agreements by the lossec/lessees for which notice has been given by the Store Government in accordance with clauses ! Penalty for repeated brea-ches of covenants (I) and (2) aforementioned on earlier occasion, the State Government without giving any further notice, may impose such penalty not exceeding twice the amount of annual dead rent specified in Clause 2, Part V.

4. Failure on the part of the lessee/lessees to fulfil any of the terms and conditions of this lesse shall not give the Central or State Government any claim against the lessee/lessees or be deemed a breach of this lease, in so far as such failure Failure to fulfil the terms lessee/lessees or be deemed a breach of this lease, in so far as anon failure of leases, due to "Force is considered by the said Government to orise from force majeure, and if of leases, Majeure' through force majoure the fulfilment by the lesseoflessees of any of the terms and conditions of this tense be delayed, the periods and such delay shall by dded to the period fixed by this lease. In this clause the expression "Force Majeure" means Act of dod, war, insurrection, riot, civil commetion, atrike, tide, storm, tidal wave flood, lightning, explosion, fire, curthquake and any other happening which the lesser/lessees could not reasonable

5. The lessee/lessees baving first paid and discharged reats, rates and revolties payable by virtue of these prezents may at the expiration or sooner determination to remove of the said term or within six calendar months thereafter (unless the :Lessee/Lessees his/their properties on the expiry of lease lease shall be determined uniter clauses I and 2 of this Part and in this case at any time not less than three calendar months not more than six calendar months after such determination) take down and remove for his/their own benefit or any engines, machinery plant, buildings, structures, tramways, railway and other works, erections and conveniences which may have been erected/set up or placed by the the State Government under clause 20 of Part VII of this Schedule and which the State Government schall not don't but the State Government lessec/lessees in or upon the said lands and which the lessec/lessees is/are not bound to deliver to

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and of six onlandar months after the expiration or sooner determination of united the provision contained in clause 4 of Part VIII of this Schedule become effecti. there shall remain in or upon the said land any engines machinery plant, Fortciture of spipperty left buildings, structures trainway, milway and other work erections and determination of lease tonveniences or other property which are not required by the lease lease in connection with operations in any other lands held by him/them under prospecting secure for mising lease the same shall if not removed by the lessec/lessees, within one calcular months after notice in writing requiring their removal has been given to the leases/leases by the State Government be deemed to become the property of the State Government and may be sold or disposal of in such manner; say the State Government shall deem to without liability to pay any compensation on to account to the lessec/lessees in respect property notice by these presents required to be given to the lessec/lessees whill be given in writing to such person resident on the said lands as the lessec/lessees may appoint for the purpose of receiving such notice and if there shall have been no such appoint Motices

ment then every such notion shall be sent to the lease/leases by registered post addressed to the lease/leases at the address recorded in the lease or at such other address in fidia at the lease-lesses may from time to time in writing to the State Government designate for the receipt of notices and every such service shall be deemed to the proper Notices and valid service upon the lessee/lessees and shall not be questioned or challenged by him. 8. If in any event the orders of the State Government are revised, reviewed or cancelled by the Central Government in pursuance of proceedings under Chapter VII Immunity of State Governof Mineral Concession Rules, 1960, the lessee/lessees shall not be entitled. ment from liability to pay to compensation for any loss austained by the lessecflesses in exercise compensation of the powers and privileges conferred upon him/them by those presents. 9. For the purpose of stamp duty the anticipated royalty from the demised land is Re. 4, 051, 200/ -- ... por year. In witness whereof these presents have bequienceuted in the manner hereunder appearing the day and year first above written. Signed by for and on behalf of the Governor of Karnataka Signed by er Sel Kumarsjyamy Mineral Exports for and on behalf of in the presence of KARJUNA

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the said lands as the case may be reasonable means of access and safe and ponvenient passage I'd across the said lands to such minerals for the purpose of getting working, developing and on try away the same provided that the lessee/lessees shall receive reasonable consequention for any datas or injury which ho/they may sustain by reason or in consequence of the use of and masage by the lessees or holders of prospecting licences.

क्षात्रकार प्राप्तिकार 17. (I) The lessec/lessees shall not, without the previous followit in writing of the State ment, which in the case of a dining lesse in respect of any sfers of lease specified in the first Schedule to the Act shall not be given except after previous approval of the Central Government and any other manner, transfer the named the mortgage, or in any other manner, transfer the named the mining delastice and right, title 'Transfers of lease

or interest therein, or

(b) enter into or make any arrangement, contract or understanding whereby the lesseo/lessees will or may be directly or indirectly financed to a substantial extent by or under which the lessee's operations or undertakings will or may be substantially controlled by any person or body of persons other than the lesser/lessees.

(2) Without prejudice to the above provisions, the lesseeflessees may subject to the condition specified in the proviso to Rule 35 of said Rules, fransfer this lease or any right, title or interest therein, to a person bolding a certificate of approval and an Income tax elearance certificate from the Income tax. Officer concerned, on payment of a fee of Rupees One Hundred to the State Government:

Provided that the lessee/lessees shall make available to the transferre the original copies of all plans of abandoned workings in the area and in a belt 65 metres wide surrounding it.

(3) The State Government may by order in writing, determine the lease at any time if the lessee/ lessees bas/have in the opinion of the State Government committed a breach of any of the above provisions or has/have transferred the lesse or any right, title or interest therein otherwise than in accordance with Clause (2):

Provided that no such order shall be made without giving the lesses/lessess a reasonable opportunity of stating his/their case.

18. The lease shall not be controlled and the lesses/lesses shall not allow themselves to be controlled by any Trust, Syndicate, Corporation, Firm or person except Not to be financed or contwith the written consent of the Central Government. The lassee/lessees rolled by a Trust, Corporation Firm or person shall not enter into or make any arrangement compact or understanding whereby the lessen/lesses will or may be directly or indirectly financed by or under which the lessess/ leasees' operations or undertakings will or may be carried on directly or indirectly by or for the benefit of or subject to the control of any Trust, Syndicate, Corporation, Firm or person unless with the written minotion given prior to such arrangement compact or understanding being lentered into or made of the Central Covernment and any or every such arrangement compact or understanding as aforessid (entered into or made with such sanction as aforesaid) shall only be entered into or made and shall always be subject to an express condition binding upon the other party or parties thereto that on the occasion of state of emergency of which the President of India in his discretion shall be the sole judge it shall be terminable if so required in writing by the State Government and shall in the event of any such requisition being made be forthwith thereafter determined by the Kesco/lessees accordingly.

74V Whenever the security deposit of Rs. 4,000/500 or any part thereof or any further sum Lessee shall deposit any addi- hereafter deposited with the State Government in replenishment thereof shall be forfeited or applied by the Central or State Government pursuant tional amount necessary to the power hereinafter declared in that bahalf the lessee/lessees shall

Like State Government such further sum as may be sufficient with the unappropriated part Must by well bareof to bring the amount in deposit with the State Government up to the sum of Rs. 4,000/600. NOTARY.

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seo/lussees shall at the expiration or sooner determination of the said term. Delivery of workings in renewal thereof deliver up to the State Government all mines, good order ten take Govern-shafts, inclines drifts, levels, waterways, sirways, and other works now meant after determination of existing or hereafter to be sunk or made on or under the said lands ·***

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新文化 1 克克德 (14) 1815年 · 15 except such as pave been ahandoned with the sanction of the Government and in an ordinary and fair course of working all engines, missing, plant, buildings, structures, other works and convenience which at the commencement of the said term were upon or under the said lands and all such machiners set up by the lesses lesses below ground which cannot be removed without causing injury to the mines or works under the said lands (except such of the same as may with the sanction of the State Government have become disused) and all buildings and structures of bricks or stone erected by the desce/lessees above ground level in good repair, order and sondition and fit in all respects for further working of the said mines and the said minecals.

21 (a) The State Government shall from time to time and all times during the said term have Right of pre-emption ... the right (to be exercised by notice in writing to the lesseo/lessees) of pre-emption of the said minerals (and all products thereof) lying in or upon the said lands hereby demised or elsewhere under the control of the lessee/lessees and the cases/lessees shall with all possible expedition deliver all mineral or products or minerals purchased by the State Government under the power conferred by this provision in the quantities at the times in the manner and at the place, specified in the notice exercising the said right.

(6) Should the right of pre-emption conferred by this present provision be exercised and a vessel chartered to carry the minerals or products thereof procured on behalf of the State Government or the Central Covernment be detailed on demurrage at the foot of feating the lesses/lesses shall pay the amount due for demurrage according to the terms of the charter party of such vessel unless pay the argunt due for demurrage according to the terms of the the State Government shall be satisfied that the delay is due to causes beyond the control of the lessed/lessees.

(c) The price to be paid for all minerals of products of minerals taken in pre-emption by the State Government in exercise of the rights hereby conferred shall be the fair market price prevailing at the time of [pre-emption PROVIDED THAT in order to assist in arriving at the said fair market price the lessee/lessees shall if so required furnish to the State Government for the confidential information of the Government particulars of the quantities, descriptions and prices of the said minerals of products thereof sold to other quatomers and of bhatels entered into for freight carriage of the saing and shall produce to such officen on officers as may be directed by the State Government original or authorizated copiess of contracts and charter parties entered into for the sale of freighting of auth minerals of products. No for grandat v

(d) In the event of the existence of a state of war of emergency (of which existence the President of India shall be the sole judge and a notification to this effect in the Guzette of India shall be conclusive proof the State Government with the government with the government. be conclusive proof the State Government with the consent of the Central Covernment shall from time to time and all times during the said term have the right (to be exercised by a notice in writing to the lessee/lesses) forthwith take possession and control of the works, plant, machinery and promises of the lessee/lessees on or in connection with the said lands or operations under this lesse and during such possession or control the lessee lessees shall conform to and obey all direction given by or on behalf of the Central Government or State Government regarding to use of employment of such works, plants, premises and minerals, PROVIDED THAT fair compensation which shall be determined in default of agreement by the State Government shall be paid to the lessee/lessees for all loss or damage sustdined by him/them by reason or in consequence of the exercise of the powers conferred by this clause and PROVIDED ALSO that the exercise of such powers shall not determine the spiditerpi hereby granted or effect the terms and provisions of these presents further that may be recessive to give effect to the provisions of this clause.

NOTARY BELLARY TO

REVENUE

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NOTARY, BELLARY.

the capital town of the State of Company of Article 225 of the Constitution of India it is hereby of sed upon by the lesses and the lesses that in the event of any dispute in valuation to the area under lesses, condition of lesses, the office realizable under the lesses and in respect of all matters touthing the relationship of the lesses and the lesses, the suits of approximation of the lesses and the lesses, the suits of approximation of the lesses and the lesses, the suits of approximation of the lesses and the lesses, the suits of approximation of the lesses and the lesses the suits of approximation of the civil Courts at the suits of the civil courts at the suits of the suits of the suits and it is hereby expressly agreed that neither party shall file any petition at any place other than the courts samed above."

For Sit Kumarsujamy Mineral Exports.

Disperse of Miner & Goology



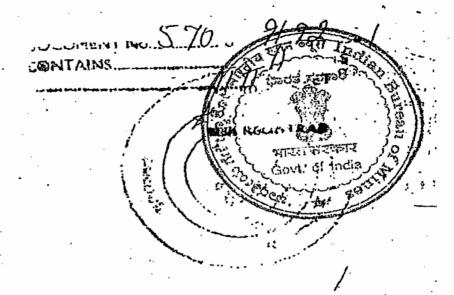
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No.CI.32:MMM,2006

Kamataka Government Secretaria Vikasa Soudha Govi of Bagalore, Dated: 07:11.2006

# -: CORRIGENDUM 1-

The extent of area sanctioned for Mining lease in favour of M/s. Kumaraswamy Mineral Exports in Notification No.Cl.232:MMN.88 dated 29.07 1991 is limited to 60:80 hectures (Sixty point eight zero hectures

Secretary to Government (Mines) Industries Department.

The Compiler, Kamalaká Cazette as requested to publish this in Part IV Section, I.C. of the Cazette.

## Copy to:

- The Secretary to Government of India, Ministry of Mines, Shastri Bhavan, NEW DELFII-110 001.

  The Controller General, Indian Bureau of Mines, India Bhavan, Civil Lines, NAGPLR-440.001.

  The Deputy Commissioner, Bellary District, Bellary The Principal Chief Conservator of Forests, Malleswaram, Bangalore. The Commissioner for Mines and Geological Resources Development and the Director, Department of Mines and Geology, No.49.

  KHANUA BHAVAN, D. Devaraf Urs Road, Bangalore 560 001.

  The Regional Controller, Indian Bureau of Mines, Southern Zone, Industrial Suburb, Opp Old Turnkur Road, Teshwanthapur, Bangalore, M/s. Kumaraswamy Mineral Exports, 54, 3rd Main, Parvathinagar, Bellary 583 103.

- The Weekly Gazette

For Sri. Kumarswamy Mineral Explorts Pvt. Ltd.,

Managing Director.

For TRAI Key Person

RQP/ENG/113/07/B



तार खान **जा**री Telegram : MINESBURO देलेक्स ४ (telex : 0845-8250 टेलीफोन् / Telephone : कार्यातम / Oilige ( - 3371027 रैनिस / Fax : 080 - 3873287 👑 👚 📑

ERNMENT OF INDIA Ministry of Mines INDIAN/BUREAU OF MINES/ 29. इंट्सीयल सूबब, ॥ स्टेंब 29. Industrial Suburb, ॥ आब्रह्म अयटक जेंड

्ष्यकर्णसेड्स Turnk**ir Fisad** वेगजुर - 560 022 - में प्राप्त

Bangalore x 560 022, DI. 13 Mag, 1999,

M/S.Kumanaswamy Mineral Exports Mine Owners & Exporters II Cross, Link Poud Parvathinagar Bangalore 560 0135

Subject :- Approval of Mining Scheme in respect of go Ramanding Tron one mine over an area of 82 Ha in district Elleany, Kannatala Stade Frovate / sems-mechanised / B Extegory,

166.0

2. This office estien of even No. dated 23nd Marchs, 1999.

sino

Thirtercraise of the (4) of Rule 12 of Mineral Rules 1988, I hence which approve This approval is subject for oca conferred by tab-sute The dvation to beveropment above Scheme of Miching, tokkowing conditions :-

il The Scheme of Mining to any other Laws applies to time whether male by Gavernment or any other tha

ii) It is Exactly of Mining does instru Government in trums; and Minerals (Resulation and Mineral Concession Rules of Including Forest Canservation

tti) The Scheme of Mining as approved without to any order or derection from any court of jurisdiction.

iv) The comments of the Director of Mines 5266 be sent to you when acceivable. The same and bo care of,

Enel: One copy of the approved Mining Scheme

Yours Kal

For Table

Key Person

RQP/BNG/113/97/B

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Managing Director.

tion to M/s. Transit Surveys (Key Person 18A/121, 2nd Cross End. Nehru Colony, Shri KJ Kananth Bellany 583 102. Regly Controller ŵrterii ter îri Antonia e de la como d The same of the sa ika ni di ikan dikebasa di kumu kasasa ban, a kumonga kasa ki k Salama di kuji kasa anda k 0

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# GOVERNMENT OF INDIA MINISTRY OF MINES INDIAN BUREAU OF MINES

MP/BLR/7=-33-52

MEERUL HASAN CONTROLLER OF MINES (SZ)

29 Industrial Suburb, II Stage Tumkur Road Goraguntapalya, Yeshwanthpur, Bangalore-560 922.

Telegram: MINESBURO FAX: (080) 3373287 Tel:080-337 3287,337 5365 E-mail: rcombng@kar.nic.in

Date & .06.2003

M/s Sri Kumaraswamy Mineral Exports, No. 54 III rd Main Road, Parvathi Nagar, Bellary-583 103

Sub: Approval of scheme of mining in respect of Ramanduga Iron ora mine over an area of 82.55 Ha. in Darmapur Village, Bellary District, Kamataka State of M/s Sri Kumaraswamy Mineral Exports submitted under Rule 12 of MCDR 1988.

Ref: Your letter No.Nil dated 19.05.2003.

Sirs.

In exercise of the powers conferred by Sub Rule (4) of Rule 12 of Mineral Conservation & Development Rules, 1988, I hereby approve the above said Scheme of Mining. This approval is subject to the following conditions:

- (1) This Mining Scheme is approved without prejudice to any other laws applicable to the mine/area from time to time whether made by the Central Government, State Government or any other authority.
- (2) This Mining Scheme is approved without prejudice to any order or direction from any court of competent jurisdiction.
- (3) It is also clarified that the approval of your aforesaid Scheme of Mining does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Regulation & Development) Act, 1957, or the rules framed there under and any other laws.
- (4) It is further clarified that the approval of the Mining Scheme is subject to the provision of Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981 and other relevant statute, orders and guidelines as may be applicable to the lease area from time to time.

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

(Shantesh Garettair)
Managing Director

For TRANSIT SURVEYS

S. NARGUND /1/9//2 Key Ferson

RQP/BNG/113/97/B

Your attention is invited to the Hon'ble Supreme Court's Interim Order on No.202 dated 12.12.1996 for compliance. The approval of this Mining Scheme is, therefore, issued without prejudice to and is subject to the said direction of the Hon'ble Supreme Court as applicable in your case.

- (6) Copy of EIA/EMP approved by MOEF should be submitted to the Regl. Controller of Mines, Indian Bureau of Mines Bangalore and to the Controller of Mines (SZ) Indian Bureau of Mines, Bangalore.
- (7) This approval of Mining scheme is subject to the condition that the lessee should submit mine closure plan under Rule 23 A of MCDR 1988 as a part/component of the Mining Scheme at the earliest.

Yours faithfully,

Encl: One copy of the approved mining scheme.

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(MEERUL HASAN)
CONTROLLER OF MINES (SZ)

00:

Copy for information to M/s. Transit Surveys, No. 18A/121, 2nd Cross, Nehru Colony, Bellary - 583 103.

(MEERUL HASAN) CONTROLLER OF MINES (SZ)

NNEXURE-V

गरत सरकार/ GOVERNMENT OF INDIAS खान मेत्रालय/ MINISTRY OF MINES भारतीय जान क्यूने/ INDIAN BUREAU OF MINES

खान निर्यप्रक (दक्षिण ओचल) का का गौनुक OFFICE OF THE CONTROLLER OF MINES (SOUTH ZONE)

Fax: (080) 23373287 Tel: (080) 23373287/ 23375365 E-mail: rcombng@kar.nic.in

29, Industrial Suburb; II-Stage, Tumkur Road, Goraguntapalya, Yeshwanthpur, Bangalore - 560 022.

No. MS/BLR/Fe-33-SZ To

Dated: 18 .04.2006

M/s Sri Kumaraswamy Mineral Exports, No. 54, III Main, Parvathi Negar, Bellary-583 103, (Karnataka)

Approval of Modifications in the approved Scheme of Mining in respect of Ramanadurga Iron Ore Mine over an area of 82.55 ha in Ramanadurga Range, Sandur Taluk, Bellary District, Karnalaka of M/s Sri Kumaraswamy Mineral Exports submitted under Rule 10 of MCDR, 1988.

Letter No. Nil dated 12.04.2006 from your RQP submitting five bound copies of the Scheme of

Sirs, In exercise of the powers conferred by sub-rule (2) of rule 10 of Mineral Conservation and Development Rules, 1988; I hereby approve the modifications in the Approved Mining Scheme. This approval is subject to the following conditions:

- (1) The document on Modification in the Approved Mining Scheme (including Progressive Mine Closure Plan) are approved without prejudice to any other law applicable to the area from time to time whether made by the Central Government, State Government or any other authority.
- (2) The document on Modification in the Approved Mining Scheme (including Progressive Mine Closure Plan) is approved without prejudice to any order or direction from any court of competent jurisdiction.
- (3) It is also clarified that the approval of your aforesaid document on Modification in the Approved Mining Scheme (including Progressive Mine Closure Plan) does not in any way imply the approval of the Government in terms of any other provision of the Mines and Minerals (Development & Regulation) Act, 1957, or the rules framed there under and any other
- (4) It is further clarified that the approval of the document on Modification in the Approved Mining Scheme (including Progressive Mine Closure Plan) is subject to the provisions of Forest (Conservation) Act, 1980; Forest Conservation Rules, 2003 and other relevant statutes, orders and guidelines as may be applicable to the lease area from time to time
- (5) Your attention is invited to the Hon'ble Supreme Court's Interim Order on WP(C) No. 202 dated 12.12,1996 for compliance. The approval of this document on Modification in the Approved Mining Scheme (including Progressive Mine Closure Plan) is, therefore, issued without prejudice to and is subject to the said direction of the Hon'ble Supreme Court as applicable in your case.
- (6) A copy of EIA/ EMP report, approved by MOEF, New Delhi, should be submitted to this office as well as to the Regional Controller of Mines, Indian Bureau of Mines, Bangalore, within one month of it's approval, along with a copy of their approval letter.

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

SURVEYS

Key Person

ROP/BNG/113/97/B

Managing Director.

## No. MS/BLR/Fe-33-SZ

- (7) The Company shall establish Environmental Monitoring Cell, which shall monitor ambient air quality, dust fall rate, water quality, soil sample analysis and noise level measurements on various stations established for the purpose, both in the core zone and buffer zone, as per Department of Environment guidelines and keeping in view IBM's Circular No. 3/92, season-wise every year or by engaging preferably the services of an Environmental laboratory approved by MOEF/CPCB. The data so generated shall be maintained in a bound paged register kept for the purpose and the same shall be made available to the inspecting officer on demand.
- (8)Provisions of the Mines Act, 1952 and Rule & Regulations made thereunder including submission of notice of opening, appointment of manager and other statutory officials as required by the Mines Act, 1952 shall be complied with.
- (9) The execution of mining plan scheme of mining shall be subjected to vacation of prohibitory orders/notices, if any.
- (10) If anything is found to be concealed as required by the Mines Act in the contents of the document on Modification in the Approved Mining Scheme (including Progressive Mine Closure Plan) and the proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.
- (11) The validity period of the financial assurance should be renewed before the expiry of the same and should be submitted to the Regional Controller of Mines, Indian Bureau of Mines, Bangalore, under intimation to this office.

Yours faithfully,

Encls: One copy of the approved modified Scheme of Mining (including Progressive Mine Closure Plan)

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(वी.एम.प्रभुशेट्टार / V.M.PRABHUSHATTAR) क्षेत्रीय खान नियंत्रक एवं प्रभारी अधिकारी (द.आं.) Regional Controller of Mines & OIC (SZ)

Copy for information to

(a) M/s. Transit Surveys, No. 18A/121, 2nd Cross, Nehru Colony, Bellary District, PIN-583 103

(b) Chief Controller of Mines, Indian Bureau of Mines, Nagpur. I

(c) Dy. Director of Mines Safety, Bellary sub-Region, 31, Infantry Road, Cantonment, Bellary-584 104, Karnataka State along with a copy of the approved Modifications in the approved Scheme of Mining (including Progressive Mine Closure Plan).

(d) Regional Controller of Mines, Indian Bureau of Mines, Bangalore, alongwith a copy of the approved Modifications in the approved Scheme of Mining (including Progressive Mine Closure

Plan) for further follow up.

(e) Director of Mines & Geology, Govt. of Karnataka, Khanij Bhavan, Race Course Road, Bangalore 560 001 along with a copy of the approved Modifications in the approved Scheme of Mining (including Progressive Mine Closure Plan).

Encl: As above

(वी.एम.प्रभुशेंट्टार्ग V.M.PRABHUSHATTAR) क्षेत्रीय खान नियंत्रक एवं प्रभारी अधिकारी (द .आ.)

Regional Controller of Mines & OIC (SZ)

# ात सरकार/ COVERNMENT OF INDIA रक्षात मंत्रालय/ MINISTRY OF MINES भारतीय कुन क्यूरो/ INDIAN BUREAU OF MINES

खान नियंत्रक (दक्षिण ओचल) का कार्यालये

OFFICE OF THE CONTROLLER OF MINES (SOUTH ZONE)

Fax: (080) 23373287 Tel: (080) 23373287/ 23375365 E-mail: rcombng@kar.nic.in

कि काल्य प्रवक्तव

29, Industrial Suburb; II-Stage, Tumkur Road, Gorgantapalya, Yeshwantpul

Bangalore - 560 022. Dated: 17.08:2009

M. W. O.

No. MP/BLR/Fe-145-SZ

M/S Kumaraswamy Mineral Exports
No. 54/J, III Main, Parvathi Nagar.
Bellary -583 103, (Kamataka)

Sub: Approval of Modifications in the approved Mining Plan in respect of Ramanadurga Iron ore Mine (ML No. 2141) over an area of 60.80 ha in Ramandurg Hill range, Sandur Taluk, Bellary District, Karnataka State of M/s Kumaraswamy Mineral Exports Ltd. Submitted under Rule 22(6) 0f MCR-1960

Ref: letter No. Nil dated 11.08.2009 from your RQP submitting five bound copies of the Modified Mining Plan.

Sirs,
In exercise of the powers conferred by the clause (b) of sub-section (2) of Section 5 of Mines and Minerals (Development & Regulation) Act, 1957, read with Government of India order No. S.O. 445(E) dated 28.04.1987; I hereby approve the above said Mining Plan (including Progressive Mine Closure Plan). This approval is subject to the following conditions:

- (1) The Mining Plan is approved without prejudice to any other law applicable to the area from time to time whether made by the Central Government. State Government or any other authority.
- (2) The Mining Plan is approved without prejudice to any order or direction from any court of competent jurisdiction.
- (3) It is also clarified that the approval of your aforesaid Mining Plan does not in any way imply the approval of the Government in terms of any other provision of the Mines and Minerals (Development & Regulation) Act, 1957, or the rules framed there under and any other law.
- (4) It is further clarified that the approval of the Mining Plan is subject to the provision of Forest (Conservation) Act, 1980, Forest Conservation Rules, 2003 and other relevant statutes, orders and guidelines as may be applicable to the lease area from time to time
- (5) Your attention is invited to the Hon'ble Supreme Court's Interim Order on WP(C) No.202 dated 12.12.1996 for compliance. The approval of this Mining Plan is, therefore, issued without prejudice to and is subject to the said direction of the Hon'ble Supreme Court as applicable in your case.
- (6) The Company shall establish environmental monitoring cell. Environment monitoring Cell of the Company shall continue monitoring ambient air quality, dust fall rate, water quality, soil sample analysis and noise level measurements on various stations established for the purpose both in the core zone and buffer zone, as per Department of Environment guidelines and keeping in view IBM's Circular No. 3/92, season-wise every year or by engaging preferably the services of an Environmental laboratory approved by MOEF/ CPCB. The data so generated shall be maintained in a bound paged register kept for the purpose and the same shall be made available to the inspecting officer on demand.

For Sri. Kumarswamy Mineral Exports Pyt. Ltd.,

(Shantest) Guledail)
Managing Director.

TO AMEIT SURVEYS

B.S. NARGUND IV 191 & Key Person

RQP/BNG/113/97/B

## No. MP/BLR/Fe-145-SZ

- (7) A copy of EIA/ EMP report, approved by MOEF. New Delhi, should be submitted to this office as well as to the Regional Controller of Mines, Indian Bureau of Mines, Bangalore, within one month of approval along with a copy of their approval letter along for revised production
- (8) Provisions of the Mines Act, 1952 and Rule & Regulations made thereunder including submission of notice of opening, appointment of manager and other statutory officials as required by the Mines Act, 1952 shall be complied with.
- (9) The execution of mining plan/ scheme of mining shall be subjected to vacation of prohibitory oxiders/ notices, if any
- (10) If anything is found to be as required by the Mines Act in the contents of Mining Plan and the proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.
- (11) The validity period of the financial assurance is valid up to 31,03,2012 and it should be renewed before the expiry of the same and should be submitted to the Regional Controller of Mines, Indian Bureau of Mines, Bangalore, under intimation to this office.
- (12) A yearly report shall be submitted to the Regl. Controller of Mines, Indian Bureau of Mines, Bangalore before 1st July of every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan.

  Yours faithfully.

Encls: Two copies of the approved Mining Plan (including Progressive Mine Closure Plan)

(Dr. B.P. SINHA) खात नियंत्रक (व आ.) Controller of Mines (SZ) 0

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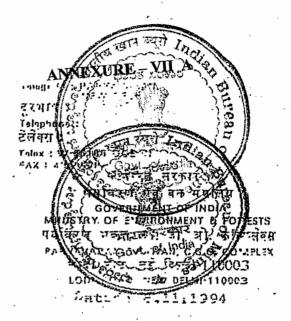
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## Copy for kind information to:

- (a) M/s Transit Surveys, 18A/121, "Survey House", IInd Cross, Nehru Colony, Bellary 583 103, Kamataka
- (b) Chief Controller of Mines, IBM, Nagpur 1
- (c) Dy. Director of Mines Safety, Bellary sub-Region, 31, Infantry Road, Cantonment, Bellary-584 104, Karnataka State along with a copy of the approved Mining Plan (including Progressive Mine Closure Plan).
- (d) Regional Controller of Mines, IBM, Bangalore, alongwith a copy of the approved Mining Plan (including Progressive Mine Closure Plan), for further follow up.
- (e) Director of Mines & Geology, Govt. of Karnataka, Khanij Bhavan, Race Course Road, Bangalore 560 001.

  Encl. As above

(Dr. B.P.SINHA) खान नियंत्रक (प.ऑ.) Controller of Mines (SZ)



No.8-286/88-FC

To

Secretary (Forests)
Government of Karnataka
Bangalore.

Sub: Diversion of 96.00 has of forest land for mining of iron ore by M/s Kumarswamy Mineral Export in Distt. uellary, Karnetaka.

Sir,

I am directed to refer to your letter No.FEE, 1 SFM 87 dated 7.10.94 on the above mentioned subject seaking printing the Central Government in accordance with Section-2 of the Forest (Conservation) Act, 1980 and to say that the proposal was been examined by the Advisor Committee constituted by the Central Government under Jection-5 of the aforesaid Act.

- 2. After careful consideration of the proposal of the State Government and on the basis of the recommendation of the above mentions Advisory Committee, the Central Covernment nereby conveys its approval under Section-2 of the Forest (Cons. ation) Act, 1980 for diversion of 30.80 ha. of forest land for mining of iron ore by M/s Kumarswamy Mineral Export in Distt. Bellary, Karnataka subject to the following conditions:
- Distributed status of forest land shall remain unchanged.
- 11) Compensatory afforestation should be carried out over equivalent non-forest land at the project cost. The non-forest land ''' identified for compensatory afforestation will be notified as protected forest under Indian forest Act, 1927.
- .iii) Period of lease shall remain 10 years.
- iv) Reclamation of the mineo areas will be uone as rer the plan furnished.
- y). Labourers working at the project site vill be provided with free fuelwood/other energy sources.

For Sri. Kumarswamy Minerah Experts Pvt. Ltd.,

(Shautesh Sureddi) Managing Director.

Hos.

ROP/BNG/113/97/D

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the instant case will by follows strictly.

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Yours Fauchfully,

( Wana Chathaine ) Assit. Inspector Canoral of Forasta

- The Principal Chief Conservator of Forents, Government on Karnataka, Bangalore.
- Modal Officer Citics of the Principal Chief Conservator of Poresto, Gove, of Kurmatala, Agugalore.
- The CCF (Central), Ragional Click, Facgalore. 3.
- RO (HO). New Delhi.
- Guard file.

भारत सरकार पर्यावरण एवं वन मंत्रालयं

## GOVERNMENT OF INDIA MINISTRY OF ENVIRONMENT & FORESTS

क्षेत्रीय कार्यालय (दक्षिण बलय)

Regional Office (Southern Zone) Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road,

2nd Block, Koramangala, Bangalore - 560 034.

No.4-K Dated the 14th

of India

NNEXURE-VII B

तार : पंयविरण, मेंगलूर Telegram : PARYAVAR

To

The Principal Secretary, Govt. of Karnataka, Forest, Environment & Ecology Department, M.S. Building, Dr.Ambedkar Veedhi. Bangalore - 560 001.

Subject:

Diversion of 30.00 ha, of additional forest land for iron one ML No.2141 in RM Block of Yeswanthanagar village in favour of M/s Kumaraswamy Mineral Exports in Bellary District.

Sir.

Kindly refer to the State Government's letter No.FEE 125 FFM 2003 dated 24.09.2004 seeking prior approval of the Central Government in accordance with Section'2' of Forest (Conservation) Act, 1980 for the above project. The Stage-I approval to the project was accorded vide letter of even number dated 21,02,2005. The State Government vide letter No.FEE 192 FFM 2006 dated 28.11.2006 have reported compliance on the conditions stipulated by the Central Government in the in-principle approval.

After careful consideration of the proposal of the State Government, I am directed to convey Central Government's approval (Stage-II) for diversion of 30,00 ha, of additional forest land for iron ore ML No.2141 in RM Block of Yeswanthanagar village in favour of M/s Kumaraswamy Mineral Exports in Bellary District, subject to the following conditions:-

- The legal status of forest land shall remain unchanged.
- 2. The demarcation of mining lease area will be done on the ground at project cost using four feet high reinforced concrete pillars, with serial numbers, forward and back bearings & distance from pillar to pillar recorded on the pillars. GPS readings for the mine area shall be taken and recorded by the Forest Department.
- Compensatory Afforestation (CA) shall be raised over equivalent non-3. forest land in Sy.No.557 of Holalur village. Hadagali taluk, Bellary District at the cost of user agency. The State Government shall obtain prior permission of Central Government for change of location and schedule of CA, If any.

For Sri. Kumarswamy, Mineral Exports Pvt. Ltd.,

Managing Director.

SURVEYS

RQP/BNG/113/97/B

State Covernment as RF/PF under Indian Forest Act, 1927 or the State Forest Act within a period of 6 months and Nodal Officer (FC) shall report the compliance within 6 months.

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- 5. The lease shall be for a period of 20 years co-terminus with the lease granted under MMRD Act, 1957.
- 6. The State Government shall raise and maintain a safety zone and will also raise and maintain the plantation over an area, one and half times of the extent of the safety zone, of the degraded forest land, at the project cost.
- 7. No new construction of building for any purpose will be taken up in the forest area diverted for the projects
- 8. The funds received from the user agency towards NPV & CA under this project shall be transferred to Ad-hoc CAMPA in account number CA 1582 of Corporation Bank, Block-II, CGO Complex, Phase-I, Lodhi Road, New Delhi-110 003 with an intimation to this office.
- The mining activity in the forest area shall be carried out as per the approved mining plan from the IBM.
- 10. The user agency shall obtain Environmental Clearance under the E(P) Act, 1986 for the area/capacity expansion.
- 11. All the environmental safeguards stipulated by Environment Wing of MoEF in case of 30.8 haz of forest land already diverted in favour of user agency for mining purpose, shall be applicable in toto to the additional area also.
- 12. The consent of State Pollution Control Board shall be obtained under Air & Water Act before the commencement of mining operation and it shall be renewed every year.
- 13. Trees shall be felled only when it becomes necessary and under the supervision of the State Forest Department.
- 14. No labour camps shall be established on the leased/diverted forest land.

- The user agency will make arrangement for free supply of either fuelwood, or any alternative energy source such as kerdsene cLPG, etc. to the labourers and staff working on the groject site so as to avoid any pressure on the adjacent forest areas.
- The user agency shall prepare an integrated five year comprehensive plan for afforestation, reclamation and soil and water conservation for the entire diverted area of 60.8 ha. The activities in the plan will be phased yearwise, with adequate financial allocation. The presentation funds for implementation shall be recovered from the user agency.
- 17. The user agency shall ensure that there should be no damage to the wildlife.
- The forest land shall not be used for any purpose other than that specified in the proposal.
   Yours faithfully.

(SOBHANA K.S. RAO) DEPUTY CONSERVATOR OF FORESTS (CENTRAL)

Copy to:-

- The Director General of Forests & Special Secretary to Govt, of India, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003.
- 2. The Principal Chief Conservator of Forests, Forest Department, Govt. of Karnataka, Aranya Bhavan, Malleswaram, Bangalore-3.
- 3. The Conservator of Forests/Nodal Officer, Forest Department, Govt. of Karnataka, Aranya Bhavan, Malleswaram, Bangalore-3.
- 4. The Manager, Kumaraswamy Mineral Exports, No.54, IIIrd Main, Parvathi Nagar, Bellary 583 103 (Karnataka).

5. Guard file.

(SOBHANA K.S. RAO)

DEPUTY CONSERVATOR OF FORESTS (CENTRAL)

J-11015/486/2006- IA. II(M) Government of India Ministry of Environment & Forests

Jefno 12436397 Jefno 12436397 Jevan C. G.O. Complex

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Paryavaran Buavan, C.G.O. Camples Lod Road, New Delhi 1 10003 Daled ING November 2, 2007

ANNEXURE

भारत संरकार

Govt. of India

To

M/s Kumarswamy Mineral Exports No.87, S.V. Colony, Near Kumarswamy Temple Club Road, Bellary 583 104

Sub:

Expansion of Ramanadurga Iron Ore Mine (ML area 68.80 ha and enhancement of production capacity from 0.48 MTPA to 2.0 MTPA) by M/s Kumarswamy Mineral Exports, at village Yeshwanthnagar, in Sandur Taluk, in district Bellary in Karnataka - reg. environmental clearance

Sir,

The undersigned is directed to refer to your letter no.SKME/PGB/EXP/14/07-08 dated 17.9.2007 on the subject mentioned above. The Ministry of Environment & Forests has examined the application.

- 2. It is noted that the proposal is for environmental clearance for increase in production of iron ore mining from 0.48 MTPA to 2.0 MTPA in district Bellary in Karnataka. The mineral reserve is 18.0 MT and 0.591 MT of sub grade and 1.25 MT of mineral rejects/very sub grade is accumulated in the lease area. Sub grade ore will be dispatched at the rate of 0.83 MTPA till the stocks are exhausted for which KSPCB has granted permission on 28.4.2006. Lease area of the mine is 60.80 ha. Out of 60.80 ha of lease area, 21.57 ha for mining, 26.26 ha for dumping, 2.00 ha for infrastructure, 1.73ha for roads, 3.73 ha for SGMD, 3.90 ha for afforestation and 1.61 ha for safety zone. Forest clearance was obtained on 8.11.1994 for 30.8 ha and on 14.12.2006 for 30 ha. No National park/wildlife sanctuary/biosphere reserve etc is located within 10km radius of the core zone. The topography of the area is hilly, undulating. Life of the mine at proposed production will be 9 years. Method of mining will be open cast mechanised. Water requirement of 197 m3/d will be met from the ground water source. Uitlmate working depth will be at 116 m at 900 m RL. Mining will not intersect ground water table. About 35.0 million tonnes of solid waste will be handled during the life of the mine for which 26.26 ha has been earmarked. It is noted that the Public hearing of the project was held on 14.09.2007. IBM has approved the mining scheme including and progressive mine closure plan on 18.4.2006. Capital cost of the project is Rs. 3.0 crores.
- 3. The Ministry of Environment and Forests has examined the application in accordance with Section 12 of the Environmental Impact Assessment Notification, 2006, read with para (2.2.1(i) (a)) of Interim operational guidelines vide Circular no. J-11013/41/2006-IA.II(I) dated 13th October, 2006 and hereby accords environmental clearance under the provisions thereof to the Iron ore mine of M/s Kumarswamy Mineral Exports for production capacity of 2.0 Million TPA of Iron ore and 0.83 Million TPA of sub grade ore involving total lease area of 60.80 ha subject to implementation of following conditions and safeguards:

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

(Shantesh Spiedal)
Managing Director.

FOR TRANSIT SURVEYS

ROP/BNG/113

A. Specific conditions

(i) Top soil shall be stacked properly with proper slope with adequate safeguards and shall be utilized for reclamation and rehabilitation of mined out area. It should be duly covered with grass and vegetal cover to preserve its fertility.

Over burden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preterably be of 10 m and over all slope of the dump shall not exceed 28°. The OB dump shall be backfilled. In critical areas such as steep slopes use of geo textiles shall be undertaken for stabilization of the dump and shall be protected by retaining walls. Measures for control of soil erosion and management of silt shall be prepared and submitted to the Ministry within 6 months. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis.

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(iii) Garland drains of appropriate size shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall 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 shall 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. Trenches/ garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silts from being carried to water bodies. Check dams and gully plugs shall be constructed across seasonal/perennial nallahs (if any) flowing through the ML area and silts arrested. De- silting at regular intervals shall be carried out.

- (iv) Recommendations of NEERI, Nagpur, as mentioned in their report on "Status of Environment – Action Plan" for the State of Karnataka, as may be applicable to this project, shall be implemented and report submitted to the Ministry within six months.
- (v) To control the fugitive emissions from drilling, wet drilling / dust extractors shall be installed.
- (vi) Plantation shall be raised in an area of 58.45 ha including green belt of adequate width by planting the native species around the ML area, haul roads, OB dump sites etc. as per CPCB guidelines in consultation with the local DFO / Agriculture Department. The density of the trees shall be around 2500 plants per ha. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation.
- (vii) Rainwater harvesting scheme shall be undertaken to conserve and recharge the ground water.
- (vili) The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

- (ix) Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new presents during the mining operation. The monitoring shall be carried out for allies in a year monsoon (April-May), monsoon (August), post-monsoon (November) and wine (January) and the data thus collected may be sent regularly; to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.
- (x) Prior permission from the competent authority shall be estained for drawl of ground water if any.
- (xi) Water quality both surface water as well as ground water in the cere zone shall be regularly monitored and records maintained. In case sentar in the cere zone shall be reported a the state government as well as the Ministry.
- (xii) Details of year wise afforestation programme already undertaken as well as proposed to be taken up including rehabilitation of mined out area shall be submitted to the Ministry within six months.
- (xiii) Action plan for abatement and compensation for damage to agricultural land/ common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Ministry within six months. Annual status of implementation of the plan and expenditure thereon shall be reported to the Ministry.
- (xiv) Fodder farms shall be developed in the buffer zone in consultation with local NGOs/Self Help Groups.
- (xv) Chain link fencing shall be raised around the ML area to prevent injury to the wildlife. Width of fire line shall be maintained in consultation with the CWLW.
- (xvi) Occupational health and safety measures for the workers including identification of work related hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time qualified doctor who is trained in occupational health surveillance. Periodic monitoring of exposure to mineral dust on the workers shall be conducted and records maintained including Health records of the workers.
- (xvii) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.
- (xviii) Trucks/tippers shall be properly with tarpaulin sheets/leak proof material and shall ply at safe speed. Overloading of transport vehicle shall be avoided. Spillage of one on the roads shall be cleared immediately on occurrence.
- (xix) All the long life permanent haul roads shall be black topped metal roads to the extent feasible. Regular water sprinkling of transportation roads shall be done.
- (xx) A Final Mine Closure Plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

# B. General conditions

the change in mining technology and scope of working shall be made without approval of the Ministry of Environment & Forests.

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Ne change in the calendar plan including excavation; quantum of mineral, iron or and waste shall be made.

- iii. Four amblers air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO2, NOx monitoring. Location of the stations/should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken. In consultation with the State Pollution Control Board.
- Iv. Data on ambient air quality (RPM, SPM, S0₂, Nox) should be regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.
- v. Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.
- vi. Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs.
- industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.
- viii. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
- ix. A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- The project authorities shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- xi. The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore.
- xii. The project authorities shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

- xiii. The Regional Office of this Ministry located at Bangalor Shall conjitor compliance of the stipulated conditions. The project authorities spould expension cooperation to the officer (s) of the Regional Office by tends have the requisited data / information / monitoring reports.
- xiv. A copy of clearance letter will be marked to concerned franchayat Alocal NGO, if any, from whom suggestion / representation has been received while processing the proposal.
- xv. State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector office/ Tellistical field for 30 days.
- The project authorities should advertise at least in two local he spapers 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 and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bangalore.
- 4. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- 5. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 6. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules,

Yours faithfully,

(Dr. P.L. Angjarai) Director Secretary, Ministry of Mines, Government of India Shastri Bhawan, New Delhi.

- Secretary, Department of Mines and Geology, Government of Karnataka, Bangal ore.
- 4. Secretary, Department of Forests, Government of Karnataka, Bangalore.
- 5. Chief Wildlife Warden, Government of Karnataka, Bangalore
- 6. Chief Conservator of Forests, Regional Office (SZ), Kendriya Sadan, 4th Floor E&F, Wings 17th Main Road, 1 Block, Koranmangala, Bangalore-560 034.
- War of Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Govt. of Wagar. New Delhi-110 032.
- 8. Chairman, Kamataka state Pollution Control Board, Parisara Bhavan, 49, 4th & 5th * Flaces, Church street, Bangalore-560001.
- Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- 10. Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- 11. District Collector, District Bellary, Kamataka.
- 12. Monitoring File.
- 13. Guard File.
- 14. Record File.

(Dr. P.L. Ahujarai) Director 0

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## GOVERNMENT OF KARNATAKA

No.DMG/R&R/2012-13/6

Office of the Director,
Department of Mines and Cology
Khanija Dhavan, Race Course Race
Bangalore-1, dated: 05:07-2012.

## Notice

Sub: Implementation of Rehabilitation & Reclamation Plan -

Ref: Letter of CEC No.2-61/CEC/SC/2012 Dt. 04/07/2012

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Please take notice that the ICFRE has submitted the Rehabilitation & Reclamation Plan of your mine recommending the annual production of iron one based on the total reserves, dump capacity and road capacity at 1:20, 1:100 and 0:64 MMT respectively. The annual production of iron one is fixed at 0:64 MMT depending on the road capacity. The Central Empowered Committee vide its letter cited at reference has approved the Rehabilitation & Reclamation Plan submitted by the ICFRE. In order to commence the mining operations, you are hereby directed to submit approved mining plan/scheme, environmental clearance, the approval under the Forest (Conservation) Act, 1980, and other statutory clearances on or before 30.07.2012 for annual production of iron one of 0:64 MMT, so that the same will be loaded onto Integrated Lease Management System (ILMS) for generating e-permits.

To,

Ms. Sri Kumaraswamy Minerals Export, ML 2141, Bellary.

Copy to,

- 1. Regional Controller of Mines, IBM, Bangalore, for information.
- 2. Member Secretary, Pollution Control Board, Bangalore, for information.
- 3. Deputy Director General, Department of Mines Safety, Bangalore for information
- 4. Deputy Commissioner, Bellary District for information
- 5. DCF, Bellary District, for information.
- 6. Deputy Director, DMG, Bellary, for needful action

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

(Shantasa Gureddi) Managing Director.

For TRANSIT SURVEYS

B.O. NARGOND 419/12 Key Person

ROP/BNG/113/97/8

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ANNEXURE -X LA RECUELIC OF IN राष्ट्रीय कोड /Country Code system /Surname GUREDDI दिये जाने जान /Given Names SHANTESH राष्ट्रीयता /l lationality সকা আন /Place of Birth KALAKERI KARNATAKA आरी करने का स्थान (Place of Issue BANGALORE करते की तिथि /Date of lesue समाप्ति की 6/11/2008 Z1864845<1IND501D154M1811250<<<<<<<<<<<<

्तके द्वारा, धारत गगरूका के राष्ट्रपति के गण पर, एवं प्राप्ति विज्ञा इन बात से सरोजार हो, यह प्राध्ना हवं अपेशा को जाती है कि ये बाइक हो विचा रोक-टोक, जाज़ादी से आने-पाने हैं, और उसे घर सरह की ऐसी सहागता और सुरता प्रदान करें

THEGE ARE TO REQUIST AND REQUIRE IN THE NAME OF THE President of the republic of India all those whom it may concern to allow the bearer to pass freely without let or

> भारत गगराज्य के राष्ट्रपति के आदेश से दिया गया BY ORDER OF THE PRESIDENT OF THE

scmm3/cu K. Sosamin नीय पासपोर्ट अधिकारी, हमस्या

Regional Passport Officen Carenters

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

Key Person

RQP/BNG/113/97/B

्रा एक व्यक्ती है। विकास स्थापन

#### पंजीकरण

विदेहरें। भी रहने वाले भारतीय नागांकों को सताह वी आती है कि वे अपने को निकटतम भारती। निवास तु वृद्धि पर फोक्कत करने हैं।

#### थेलायनी'

भारत संस्थात्र ह

पढ़ पूर्वपूर्व परा सरकार की सन्मति है। पालपोर्ट अधिकारी से इस पालपोर्ट के संदर्भ में कोई सुर्या पिक्रिय पर जिसमें देते सुपूर्व करना शामिल है, उसका सुरन्त अनुपाल किया जाए।

्रे पंकु प्राप्ति हैं होक द्वारा किसी थी देश से बाएर न भेजा जाए। यह पासपीट धारक या उसके भूमि प्रिचिक्तत व्यक्ति के करने में ही होना चाहिए। इसमें किसी भी प्रकार के करवरंश या विकृत नहीं किस्त्र जाना चाहिए।

पासपोर्ट गुम जाना, बोरी हो बाजा था नष्ट हो जाने पर चसकी रिपोर्ट तत्काल भारत में निकटतम् पासपोर्ट अधिकारी को (तथा बंदि धारक विदेश में हो) निकटतम् भारतीय सिशन को और स्थानीय मुक्तिस को दी जानी बादिए। निक्शिभित पूछताछ के पश्चात ही प्रतिभूख पासपोर्ट आरी किया स्थाना ।

## REGISTRATION

INDIAN CITIZENS RESIDENT ABROAD ARE ADVISED TO REGISTER THEMSELVES AT THE NEAREST INDIAN MISSION / POST.

#### CALITION

THIS PASSPORT IS THE PROPERTY OF THE GOVERNMENT OF INDIA. ANY COMMUNICATION RECEIVED BY HOLDER FROM THE PASSPORT AUTHORITY REGARDING THIS PASSPORT, INCLUDING DEMAND FOR THE SURRENDER, SHOULD BE COMPLIED WITH IMMEDIATELY.

MEDIATELY.

PASSPORT SHOULD NOT BE SENT OUT OF ANY COUNTRY BY POST.

IT SHOULD BE IN THE CUSTODY STITHER OF THE HOLDER OR OF
A FERSON AUTHORISED BY THE HOLDER. IT MUST NOT BE ALTERED OR MUTILATED IN ANY WAY.

Loss: Theft or destruction of passports should be immediately reported to the nearest passport authority in india or ( if the holder is abroad ) to the nearest indian mission and to the local police, only after exhaustive enquiries shall a replacement passport be issued.

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## SHIVASHANKAR MALLANGOUD GUREDDI

काता का भाग /Namo of Hether

## BASAMMA SHIVASHANKAR GUREDDI

पति सा महनी का नाज/Name of Spouse

JYOTHI SHANTESH GUREDDI

पहत /Address

NO 516/4 10TH CROSS RAJAMAHAL

VILAS EXTENSION SADASHIVNAGAR

BANGALORE 560080

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28/06/1999

BANGALORE

पंजर्बन ने JFile No.

BNGE02346108

BHARAT SANCHAR NIGAM LIMITED

# **Bellary Telecom District**

Name & Address of the Customen KUMARA SWAMY 24 GELL 9449841939 2 ND LINK ROAD PARVATHINAGAR BELLARY KT 583103

Customer id Account Number Phone Number

Bill Number & Date Bill Period Payment Due Date Customer Typ

Credit Limit

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y Date. Minimpm Late F	ee is Rs 1	0/54
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Monthly Charges	S (C.	180.00
Usage Charges		789.00
One Time Charges		0.00
Discounts		-50.00
Service Tax		94.66
klate Fee	ă.	0.00
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	×	75.9

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O TOTAL TOTAL	Taur Rate	Amount
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Educational SESS	2.00%	1.84
HOLD WEEKS	1.00%	0.92
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omer, Now you can enjoy long ion from your Landline to any in india at Local call rates (3 minutes No additional STD charge will be

Free calls are converted into Discount Amount as per your plan.

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ZKI KUMAKSWAMY MINEKAL EXPORTS P

Mine Owners & Exporters

No. 24, Il Link, Parvathi Nagar, Bellary-583102.

Karnataka (State)-INDIA Phone: 91-8392-267484, 267069. Fax: 91-8392-266767

E-mail : kumnex@rediffmail.com

"We Mine with care"

No. 35, III Floof Park Enclave. Tuskar Town Shivai Nazar Bangalore Ph +91 080 22862954

> MANAGED AND STREET Govt. of India

HELD ON 2ND APRIL 2012 TOWN, SHIVAJI NAGAR, BANGALORE.

Shri Shanthesh Gureddi, Managing Director do hereby authorised to Sign, Execute, Submit, Correspond all connected matters with IBM including Sabmission of MINING PLAN in connection with RAMANDURG IRON ORE MINE-M.L.NO: 2141 of Dharmapur village, Sant's : Tq. Bellary District

His Act, commitments etc are binding on the Company.

Certified copy of Resolution

Attested

SHRI. SHANTESH GUREDDI MANAGING DIRECTOR

For Sri. Kumarswam Mineral Emports Pvt. Ltd.,

Managing Director.

Key Person

ROP/BNC/113/97/3

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## FORM-J

"To be Submitted in Duplicate"
GOVERNEMNT OF KARNATAK

Initial of Receiving Officer:

To,
The Secretary to Government of Karnataka
Commerce & Industries Dept, Sachivalaya-II
M.S. Building, 3rd Floor, Bangalore-1

Through
The Director,
Department of Mines & Geology
No. 49, Khanija Bhavan, Race Course Road,
Bangalore - 560 001.

LETTER RECEIVED
Dept. of Mines & Geology
Bangalore-1

Sir,

We request for renewal of our mining lease under the Mineral Concession Rule, 1960.

2. The required particulars are given below:

D.D. No. 618675 Dated 5-4-10 for Rs. 3500). in the name of Director of Mines & Geology.

D	Name of the applicant with complete address.	*	M/s. Sri Kumarswamy Mineral Exports, No.54/I, III Main, Parvati Nagar, Bellary—583 103, District: Bellary, State: Karnataka
ii)	Is the applicant a Private individual /Private Company/Public company/firm or association?	•	Partnership firm.
iii)	In case applicant is	7 5	The control of the co
a)	An individual his nationality		<u> </u>
<b>b</b> )	A private company, the nationality of all members of the company along with place of registration	***	Indian

For Sri. Kumarswamy, Mineral Exports Pvt. Ltd.,

(Shapitesh Goreddi) Managing Director.

For TRANSIT SURVEYS

B.S. NARGUND 11 9118 Key Person

RQP/BNC/113/97/B

(	<del>دنين تي </del>	and the second s		and the second section in the second second and the second second second second second second second second se
		A public company, the nationality of		F
17	च्याकरो र	directors, the percentages of share capital,	1	-
,	ويويد	held w Indian nationals along with place		
	4 17 19 19 19 19 19 19 19 19 19 19 19 19 19	of incorporation.		
	d)	A firm or association, the nationality of	*	Indians
		all the partners of the firm or members of		
	hamasid .	the association.		
	iv)	Profession or nature of business of	NI A	Iron Ore mining and supplying to
0	i, of his	applicant		indigenous industries and also for export.
3	*)	Deleted		Annual Control of the
	VI)	Deleted		
	vii)	An affidavit, that up to date income Tax		Affidavit is enclosed,
		returns, as prescribed under the income		A STANDARY AND
		Tax Act 1961 have been filed and the Tax		
: 2		due including the tax on account of self		to an in the case of
1		assessment has been paid.		
	viii)	a) Particulars of the Mining lease of	\$	M.L. No. 2141, over an extant of 60.80
		which renewal is desired.		Ha, in Ramanadurga hill range, Sandur
1		Land and the second of the sec	orida ia	Tq., Bellary Dist, Karnataka State
1		b) Details of previous renewal granted if	2	Mining Lease was granted on 24.01.1992
		any.		for 20 years, valid up-to 23.01,2012.
1	ix)	Period for which renewal of Mining Lease	100	20 years or more as applicable under
1		is required.	*	existing rule.
1	x)	Whether renewal is applied for the whole		Whole Area of 60.80 Ha.
L		Or part of the lease hold.		The state of the s
Ì	XA	a) Does the applicant continue to have		Yes, forest Clearance was granted earlier
-		surface rights over the area of the land for		for 60.80 Ha. Now we have applied for
I		which he requires renewal of the Mining		renewal under FC Act.
		lease.	] 	Parameter Committee Commit
1		b). If not has he obtained the consent of	arterta	We have applied for renewal of Forest
1		the owner and occupier for under taking	4	Clearance.
I	200	mining operations if so, the Consent of		,
1		the owner and occupier of the land	4	*
L		obtained in writing be Filed.		¥
	XB	Particulars of the areas mineral wise in	••	There are no other leases except ML, No.
		each state duly supported by affidavit for		2141 in the name of lessee. Affidavit
1		which the applicant or any person joint in		Copy enclosed.
L		interest with him:	il Line to state of	
L		a) Already holds under mining lease	- 24€ - 3€	No. Only ML No. 2141.
1		b) has already applied for but not granted		-No-
L		or .		* ×
		c) Being applied for simultaneously.		•
			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	**************************************

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Γχċ	A. Mining Plan-which shall include	i de :		ã
	a) The plan of the area showing the nature	de Es	A service of DEC and December 2	76 76
Ÿ	and extent of the minerals body spot		Approved Mining Plan wall-bas upinted.	1
į.	or spots where the excavation is to be		Me Committee Man	)
	done in the first year and its extent a		New Commission JA	N
Br. Carlo	defined assessment and its extent a		1/3/ 6 3 - 1/2	M
1800	detailed cross section and detailed plan of		1 112.8	1
	spot (s) of excavation based on		1 13 ( ) 8	
	prospecting data gathered by the applicant	É	13 minimum 6	W
	a tentative scheme of mining for the	İ		¥
i a. <del>Dominio Tablica de la</del>	period of the lease.		Gora, of India	1
r .	b) The details of geology and lithology of		Will be given with approved faming	1.
	the area, the extant of manual Mining	1	Dies the	£ .
	through machines.	<b>.</b>	Date of the state	3
	c) Annual programme and plan for	1.	-do-	
ing the second second	excavation from year to year and		[.	*
10.000	d) The plan of the area showing nature,		-do-	1
1 54	water courses, light of reserved and other	1	the second second second	25%
, (	forest areas and density of trees,			
	assessment of impact of mining activity		***	1
ú v	on forest, land surface and environment	, e :	Francisco Son V (AVI Class)	7 7 7 7 1 .
	including air and water pollution and	أعسده أدسده	Principal and the second of th	
	details of the scheme for restoration of the	9		[
	same by afforestation land reclamation of		Į	
	pollution control devices.	3	* *	Ĺ
XD	In case the renewal applied for is only for	<del></del>	1144 MARKET 114 114 114 114 114 114 114 114 114 11	1
33.03	part of the lease hold.	Z.	Not applicable — entiré area is applied for	ļ
<del></del>	a) The area applied for renewal	10000000000000000000000000000000000000	Téase renewal.	Į.
A CONTRACTOR OF THE		1200	. 60.80 Ha.	ľ
	b) Description of the area applied for	<b>4</b>	Copy of the lease sketch enclosed (duly	Ī
ĝ	tenewal description should be adequate		marked)	<b>!</b>
en e	for the purpose of demarcating the plot.			ţ
	c) Particulars of map of the lease hold	7,6	-Enclosed-	1
. 0	with area applied for renewal clearly			į.
i. 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974	marked on it (attached)			Ē.
Хi	Means by which the mineral is to be	186	Iron Ore will be raised by mechanical	a .
. 8	Raised i.e. by land labor or mechanical or		means by opencast method.	
	electricity power.		e for a suppose and a suppose and a suppose of the	
xii	Manner in which the Mineral raised is to	, N. 74	Supplying to indigenous industries and	. *
ۇ ئىلىمىيىسى	be utilized.	2.01	also for export	
	a) For manufacture in India.	•	For steel plants and Sponge iron plants.	
ya wa wasan T	b) For export to Foreign countries.	4	To Foreign countries like Australia,	Japan
, t		7G	Singapore and Chaina etc., after crushing	1
4			and screening. and processing.	
	c) In the former case the industries in	10 0 00 00 00 00 00 00 00 00 00 00 00 00		:
4	connection with which it is required.	*	1. Jindal South West Ltd., Torangal	:
	chould be created to the territory		· 2. MMTC Ltd.	
Ì	should be specified, in the later case the		3. Fomento (Kar) Mining Co.Pvt	
3	countries to which the mineral will		Ltd., Goa	
	exported and whether the mineral is to be		4. Local Sponge Iron Companies.	₩.
5		1 1		
<u>,</u>	exported after processing or raw form should be stated.		5. Required for our own benefication 6. For our sponge from fallet and steel and attitud plants.	plant

	-		والإنجازية والرائد فالمالية	والمراجع والم
30	V	Details of output during the last three	4	Years Production achieved
	erior or	years and phased programme for		2006 2007: 4,27,634 Tonnes
18/1		production during the next three years		2007 2008: 4.78.711 Tonnes
	ŀ	along with a layout plan for development,		2008 2009:11,33,349 Tonnes
		if any.		2009 - 2010: 2,94,433 Tonnes
No Vari	าสา	कार र		A
1 3 1 30	vt. of			Year: Production Proposed
A CONTRACTOR	٠	BOILING		2010 - 2011 19,97,717 Tonnes
The second second	A	A CONTRACTOR OF THE PROPERTY O		2011 2012 19,98,364 Tonnes
7 <b>*</b>				2012 - 2013 20,00,000 Tonnes
	1	to the second of		
		i sa		Layout plan will be submitted along with Approved mining plan/scheme.
×	v	In case of coal details of existing railway transport facility, if any, required.	Š	Not applicable

We do hereby declare that the particulars furnished above are correct and are ready to furnish any other details, including accurate plans as required by you before the grant of renewal of the lease.

PLACE: Bangalore

Yours faithfully

For Sri Kumarswamy Mineral Exports.

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Shantesh Gureddi, Partner.

# Encl:

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1) DD for Rs. 3500

2) Applied area sketch for renewal.
3) Affidavit for IT clearance and for not having any other mining lease.



GOVERNMENT OF INDIA MINISTRY OF MINES INDIAN BUREAU OF MINES

OFFICE OF THE REGIONAL CONTROLLER OF MINES

Tel No.080 23371027
Fax No.080 23373287
Email ID: rcombng@rediffmail.com

Email ID: rcombng@rediffmail.com ro.bangalore@ibm.gov.in

No. 279/07/87/BNG- Vol. XXIII

To:
Sri, C.D. Prabhakar Reddy
Authorised Signatory
M/s Transit Surveys
# 18 A / 121, 2nd Cross
Nehru Colony
Bellary - 583 103

Sub: Enrollment of Sri. B.S. Nargund as key person in M/s Transit surveys, Reg. No.

RQP/BNG/113/97/B.

Ref: Your application dtd.9/06/2012s

The application for Enrollment of Sri. B.S. Nargund as key person in your Reg. No. RCP/BNG/113/97/B has been examined in this office and found in order. Srl. B.S. Nargund, RCP/Goa /005/87/A is hereby enrolled as key person in your RCP Registration with immediate

02. After the enrollment, the following are the registered key persons in your company having validity up to 05/03/2024

(1) Spi.C.S.Daveji. (2) Spi. G.V. Gaonkar and (3) Sri. B.S. Nargund

103. The original certificate of RQP enrolling Sri. B.S Nargund as 3rd Keypeson is sent

Encl: Original RQP Certificate.

Yours faithfully,

REGIONAL CONTROLLER OF MINES

Tumkur Road, Gorugustapaiya

Yeshwantpul

Bangalore- 560 022.

Date: 4,08.2012.

Copy for kind information to: The COM(SZ) , IBM, Bangalore

( B RAM MOHAN ) REGIONAL CONTROLLER OF MINES

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

(Shantesh (Shipthi) Managing Director.

DE STAPCIND 11/19

Key Person

For TRAN

RQP/BNG/113,97/B

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# GOVERNMENT OF KARNATAKA

NO.DMG/DDH/MLS/2012-13/

Office of the Deputs Director Dept., of Mines & Gology

несрес

**Endorsement** 

Sub:- GPS readings of corner boundary pillars as per the CEC survey

demarcation.

Ref:- Your letter No. SKMEPL/M&M/M-11/12-13 dated:23.07.2012.

***

With reference to above cited subject, hereby providing the GPS readings of corner boundary pillars of the mining lease No.2141 of M/s Sri Kumarswamy Minerals Export Pvt Ltd , Yashwanthnegar, Sandur Taluk. For sketch approved by the joint team constituted by

Hon'ble Supreme Court.

Sl No	Reference/ML Corner Points	Corresponding GPS Co-ordinates taken by using handled GPS Datum: Indo Bangala.			
	Cosmos admin	Latitude	Longitude		
1	Al	15° 04' 18.5"	76°30'27.6"		
2,	2	15° 04' 30.6"	76°30' 16.1"		
3	3	15° 04′ 32.0"	76° 30' 17:6"		
4	4	15° 04' 39,2"	76° 30′ 11.1″		
3	. 5	15° 04' 37.6°	76° 30' 09.5"		
6	ő	15° 04) 46.2°	76° 30' 01.2"		
7	7	15° 04' 53.1"	76° 30' 08.0"		
8	8	15° 04' 47.1''	76° 30′ 14.6″		
0	9	15° 04′ 40.8″	76° 30' 15.8"		
16	10	15° 04  41,2"	76° 30′ 2 <b>5</b> .9″		
11	11	15° 04' 34.5"	76° 30' 33.2"		
12	12	15° 04' 27.9"	76° 30' 35.6"		
13	13	15° 04' 07.2"	76° 30' 48.5"		
14	14	15° 04'02.4 "	76° 30' 43.9"		

This is for your information.

Deputy Director
Dept. of Mines & Geology
Hospet

To, M/S Kumara Swamy Mineral Exports Gurukrupa Nilaya, Nehru Road,

Bellary-583101.
GLIFFIE FOR TRANSIT SURVEYS

B.S. NARCOND 418/12 Key Person

RQP/BNG/113/97/B

For Sri. Kumarswamy Mineral Exports Pvt. Ltd.,

(Shantosh Edireddi) Managing Director.

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# **GOVERNMENT OF KARNATAKA**

NO.DMG/DDH/DB/CEC-MAZ/12-13/

1060

Office of the Deputy Director, Dept., of Mines & Geology,



To, Sri Kumarswamy Minerals Export (P) Ltd., No:24, II-Link, Parwathi nagara, Bellary.

Sir,

Providing the copy of Mahazar and C.E.C Sketch of Joint Sub:-Survey of ML No:2141-reg.

Your Letter No:SKME:M&G:M-11:2012-13:Dt:03.09.2012. Ref:-=***=

With regard to the above subject and reference, Xerox copy of the C.E.C Sketch and Mahazar of Joint Survey Team of your ML No:2141 is enclosed for your reference.

Yours faithfully,

Encl:1) MAP-1. 2) Mahazar Copy-1.1

Deputy Director Dept., Of Mines & Geology

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Spark former of Geology town ( BULL O OF IN DE DE SOUND come to Know that Ms Leaved OF KID FIND & GENNOODED ON degree as as no suo suo Fre C Home 2 22 John Roy CA O. stold · 54w -0962 = (524 +586) 64 Lessen between the corner of the contest of the con most peress est physical Accordingly the Suary Tream portion In this Considered the NITH Surey room No-6 & 9 to a Strangue Line and Bonet the V'step the losses has had wat to Jounte corner pounts how I shape, During the Survey and demonacht on which asse or at he stronges have steen pout they The dead should be ted the Corner pour the Cod of The same that the adjacent hear cover of the same of t

Reply of Mines & Geology

7.58-08-92 5.78-40-51 808-78101 200.042P 11 6-58-18-91 5-14-40-51 7\$6-65601 955:8h Eb 66542601611.640b 9-41-08-72 1-64-40-51 968 -61111 Sb 2 1106 1.80-08-92 1.85-40-51 596-96211 055-0188 18609-921 11079-038 C-10-18-91 7.94-40-51 158181801 871 6818155 1-11-98-94 632-49-51 515.778011561.8068 E04.90901 896.0906 1-91-08-92 2-08-ha-51 5-31-40-51-14 EEE-MICON ESS-SIMB epiniado 7 SDIMBEL M. Kemarks ONE GPS Co-ordinates in Trade D **HOURIS** īS 10000 N- (6000 - Action - GTS-pout No 930 (New) The details of the survey and demarcation is as follows: as per the Hon ble Supreme Court approved sketch. The joint survey and demarcation work of said lease has been carried our Representative of Mines from date 19-5-2612 to and 18-18-18-18 officials of Mines and Geology, horest Dept in preschee Bellary District has been carried out by MITK, Surtial team along with the survey/Forest range ~ m - bined of willage पंजवाद्यां अस्ति के के विषय के विकास विकास विकास Maharat

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