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METABODELI IRON ORE DEPOSIT

Forest Range – Antagarh Division – Bhanupratappur District – Bastar (Madhya Pradesh)

Granted To

M/S NAGPUR ALLOYS CASTINGS LTD.

(Over an area of 200hectares)

UNDER PROSPECTING LICENCE

VIDE ORDER NO. :F-2/854/93/12/2, DATED 14.09.94

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Rule 4 of MCDR 1988

D. b. Chordh)ry
President (Mines)
Jayaswal Neco Industries Ltd

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Authorised Signatory

Geomin Consultants Pvt. Ltd. RQP NO.: IBM/CAL/167 /92-B 267, Kharvel Nagar, Bhubaneswar

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* FOREWORD

THIS PROSPECTING REPORT HAS BEEN PREPARED FOR IRON ORE DEPOSIT OF METABODELI IRON ORE DEPOSIT UNDER KOTHODI PROTECTED FOREST OF DISTRICT BASTAR OF MADHYA PRADESH.

IN ORDER TO MEET THE RAW MATERIAL REQUIREMENT FOR THE INTEGRATED STEEL PLANT, AN AREA OF 200 HA. HAS BEEN GRANTED TO THE COMPANY UNDER PROSPECTING LICENCE VIDE ORDER NO F-854/93/12/2, DATED 14.09.94 FOR A PERIOD OF 2 YEARS WHICH WAS ALSO RENEWED FOR ANOTHER TWO YEARS.

THE LICENSEE IS COMMITTED TO PERFORM THE PROSPECTING OPERATION FOR METHODICAL MINING IN THE INTEREST OF MINERAL CONSERVATION RULES AND OPTIMUM PRODUCTION OF MATCHING QUALITY. A PROSPECTING SCHEME SUBMITTED EARLIER SERVES AS A GUIDELINE FOR CONDUCTION OF PROSPECTING.

THE PROSPECTING REPORT IS BASED ON THE DATA GENERATED IN THE FIELD BY,

- A SYSTEMATIC GEOLOGICAL MAPPING IN 1:2000 SCALES & PREPARATION i) OF GEOLOGICAL SECTIONS.
- THE DRILLING OF FOUR BOREHOLES. ii)
- SAMPLING AND ANALYSIS OF DIFFERENT TYPES OF ORES HAVE BEEN iii) CARRIED OUT.

ALL THE TECHNICAL & FIELD DATA COLLECTED, GENERATED AND PROVIDED BY THE COMPANY'S REPRESENTATIVES.

President (Mines)

Jayaswal Neco Industries Ltd

Authorised Signatory M/s Geomin Consultants (P) Ltd. Regn. No. RQP/CAL/167/92/B

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PROSPECTING REPORT OF METABODELI IRON ORE DEPOSIT, PROSPECTING LICENCE OVER 200 HECTARES IN BASTAR DISTRICT, MADHYA PRADESH.

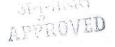
1.0 INTRODUCTION

The development and Industrial growth of any country depends to a great extent on the availability of mineral resources of economic importance. Among the major economic minerals, iron ore occupies the top most places due to its varied use in producing quality steel. Besides it's use as an important raw material in steel making, iron ore also finds use in the manufacture of sponge iron and other Ferro Alloys products.

M/s Nagpur Alloys Castings Ltd. is a public limited company having sound financial background and industrial experience, an Integrated Steel Plant at Siltara in Raipur District of Madhya Pradesh has been set up by the company. The initial production of the Steel Plant, using blast furnace (Basic oxygen furnace) route has been started on 16.11.96 with a capacity of 3.88 lakh tonnes of finished steel per annum. The plant has provision for expansion to 1 million tonne per year in phases in due course.

The company has already established linkage for supply of required iron ore from various mine owners, including N.M.D.C. It is however, keen to possess it's own captive source to maintain sustained supply of iron ore needed by the steel plant and in view of the requirement of raw material for the company's steel plant, the Govt. of Madhya Pradesh has granted Prospecting License for iron ore over an area of 200 Ha in Metabodeli iron ore deposit located in Kothodi Protected forest, Range-Antagarh , Bhanupratappur Division, District-Bastar, Madhya Pradesh.

The NOC from Forest deptt. obtained and enclosed as Annexure-A, The PL order is enclosed as Annexure-B and the PL agreement made on 10.11.94 for



two years and again renewed for further two years, which are enclosed as Annexure-C.

However, the company has a prospecting License in Chotedongar Iron Ore Deposit in Narayanpur Forest Division, Distt. Jagdalpur and for Lime Stone in Manpur(Rajnandgaon). A Mining Lease has been granted to the company for lime Stone in Khaira, Distt.-Rajnandgaon.

The licensee is committed to perform the prospecting operation for methodical mining in the interest of mineral conservation and optimum production plan of matching quality.

After grant of Prospecting License for the subject area, the work was awarded to M/s Geomin Consultant Pvt. Ltd., Bhubaneshwar for carrying out prospecting work for which Prospecting scheme (Annexure-D) had been prepared as required under MCDR, rule, 1988, which served as a guideline for conduction of prospecting. The work included following:

- i) A systematic geological mapping in 1:2000 scales & preparation of geological sections.
- ii) The drilling of boreholes permitted by Forest deptt.
- iii) Sampling and analysis of different types of ores samples have been carried out.

Between 1995 and 1996, the Geological mapping including drilling of four boreholes was completed by the consultant. However, after re-grant of renewal of prospecting work, the company deputed its own staff for further drilling but due to naxal problem the work was suspended intermittent many a times and finally drilling was not be completed in remaining part of PL area. However, the sampling of a few more out crops and geological mapping of remaining area has been carried out based on the previous work done. Based on the information obtained from field survey and Geological mapping as well as drilling carried out by the consultant in previous years, the prospecting report for the concerned area has been made by company's technical staff.

2.0 Location & approachability:

The PL area granted in favour of the company is located in Kothodi Protected Forest in Bastar District, Madhya Pradesh and forms a part of Survey of India Toposheet No. 64-D/16. The said area is bounded by latitudes 20° 02' - 20° 04" N and longitudes 80° 58' - 80° 59'30"E.(Location Map is enclosed as Plate 1.)

The details of the land covered in the Licence area as follows:

District/	Tahsil	Village	Compt.		Area	Ownership	
			No.		(Ha)		
Bastar	Bhanupratappur	Metabodeli,	426	&	200.00	Govt.	forest
-		Kothodi	427			Land	
		P.F.					

The Metabodeli iron ore deposit is approachable from Chargaon village, located in the south east of the Metabodeli hill at a distance of 2 Km. Chargaon can be approached by a 25 km. forest road from Pondgaon, on Rajnandgaon/ Durg - Rajhara-Bhænupratappur, Narayanpur - Jagdalpur state highway no. 9. The deposit is located about 250 km. from Siltara Steel Plant of the applicant company near Raipur.

The nearest railhead for the area is Dalli-Rajhara at a distance of about 84 Km. The proposed Durg(Rajhara)-Bailadila Railway line would pass through Antagarh located at about 35 km South -East of the deposit.

The medical facility is available at Bhanupratappur, which is 47 km. away from the area. The post office and educational facility up to primary level is available in Chargaon village. The High School and College facilities are available at Bhanupratappur.

3.0 Physiography & Drainage:

The Prospecting License area represents a rugged hilly topography with a prominent elongated hill range trending Northeast-Southwest direction. There exist two prominent structural valleys in the NE and SE part of the area. The highest point is located adjacently observed to be 578m above M.S.L. (Hill Peak), which also acts as a triangulation station.

The lowest altitude of 390 M is observed along the North corner of the area. The general gradient of the Southeastern side is noted to be 1:8 and that of Northwest part is observed to be 1 in 6.

The total PL area is featured in the Kothodi Protected Forest, mostly covered with the growth of miscellaneous type of forest trees cover. However, trees like Shorea robusta(Sal), Terminalia tomentosa(Saja), Anegisus latifolia etc., are also some of the prominent species observed in the area with moderate density. The structural valley is represented mostly by dry nalas.

One nala in the eastern hill slope and chargaon village flowing almost N-S joins the Chargaon Nadi. Metabodeli is a prominent elongated hill in NE-SW direction. It acts as a water divide line between the Waler river in the north and the Chargaon river in the south with dendrite drainage pattern.

General Geology:

The general geology of the area constitutes Archaean and Precambrian formations represented by Bengpal group and Bailadila group respectively. The Bengpal group comprises metasedimentary, ultramefic gabbro-anorthosites suite of rocks. The granites are observed to be found in a predominantly gneissic area. This group is co-related with Archaean high grade complexes.

Bailadila group mainly comprises meta-sedimentary dominated by banded iron formations, metabasics and granite which has been involved in poly-phase deformations and green-schist to lower amphibolite grade metamorphism and an authorized and green-schist to lower amphibolite grade metamorphism and green-schiet grade metamorphism and green-schiet grade metamorphism and green-schiet grade metamorphism and grade meta The geological succession of Iron ore deposit given by Datt (1963), Bulletin Geological Survey of India is as follows:

TIME	GROUP	FORMATION
Recent		Soil, high & low level laterites and Float Iron ores
	Unconfo	ormity
Purana	(Indravati Group) Unconfe	0-mif\/
P	Narainpur Group	Conglomerate
R C A	Bailadila Group	nformityBanded Iron ore formations, gray & red shale and phyllites, chlorite schist
M B R	Intrusives	onformity Quartz, aplite & pegmetite veins, metabasic
I A N	Bengpal Group	Granite gneiss, migmatite & grante, migmatite quartzite, tremolite schist, quartz mica schist, andalusite schist harphlend schist, and pyroxene quartzites
	Base r	not exposed

The plains and slopes are generally composed of granite-gneisses with enclaves of meta-sedimentary and meta-volcanic sequence, commonly grouped under Bengpal group.

Structurally, the area is folded and cross-folded in antiforms and synforms. The common trend of BHQ is almost NE-SW with moderately dipping towards SE, rolling dips in BHQ are also observed.

4.1. Local geology:

Local Stratigraphy: The geological and structural mapping conducted in the applied area have helped in establishing the local stratigraphoic sequences as follows;

Laterites, Soil & Alluvium Canga & Iron Ore Floats Massive Insitu Iron Ores Banded hematite quartzites.

Laterites: One patches of laterite is found on the top of the hill in the northeastern side covering a surfacial area of 0.8 hectares with an average depth of 2 meters.

Float Ore: Major portion of the area in the north western as well as southeastern slope is dominated by float iron ores which observed to be embedded in the soil zone although the ores are also noticed as recemented with latrite forming canga zone. The float zones are noted mostly along the periphery of the major ore zones.

Banded Hematite Quartzite: All along the insitu ore, BHQ is occurring in SE direction in between the insitu ore and float ore. BHQ is prominently marked forming interlayer of alternate bands of silica and hematite of varying thickness from few mm to more than 10 mm. Being resistance, they preserve most of the structural elements of beddding plane.

Massive Iron Ore: The iron ore found in this area is mostly hematite and can be classified as massive and laminated type of ore is found to occur on the top of

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the hill elongated N40^oS-S40^oW, to almost NE-SW, has a strike length of about 1500 m. The general dip is observed to be about 40^o SE. The ore occurring in this area is mainly hematite also containing magnetite and martite.

The ore body is occurring on the hill top along NE-SW direction and continuing on the south-eastern slope of the PL area.

Lateritic Soil: Lateritisation is a common phenomena noted in the area. Thinly laminated iron ore are more prone to lateritisation. After lateritisation, they give rise to lateritisated laminated and lateritic ore which is mostly found on the surface as capping over thinly laminated ores.

Some Canga ore is also noted in very limited area. It is a broken piece of hard ore recemented in a lateritic matrix and presenting a brecciated look on the surface.

Ore Types: The Prospecting License area comprises different types of iron ores as discussed below.

i) Float Iron Ore:

As discussed earlier, the western and eastern side of the area is mostly covered by float iron ore upto a depth of around 3m from surface level. Float ores occur alongwith laterites in the area. The ore is generally hard in nature steel grey to grayish brown in colour.

ii) Massive/laminated Ore:

The massive ore is mostly confined to the top of the hill, trending almost north south with dipping an amount of 48° to 52° due southeast.

From the borehole data from the adjacent area it is found that hard massive ore zone is continuing to a depth of 15 meters and the subsequent interpretation can prove the existence of ore zone at greater depth. The ore is medium hard and steel gray in colour.

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5.0 Details of Exploration:

i). Already carried out: The area has been mapped by Mr. D. K. Chatterjee of GSI during 1950-51 followed by 59 - 61 & 81 - 83 field season. Iron Ore deposit around Metabodeli hill were brought to lime light by Geological Survey of India in the year 1989-90. However State Directorate of Mining & Geology of Madhya Pradesh have also delineated iron ore pockets in the hill during their field season 1985-87 diam of the 1988-89.

After grant of Prospecting License, the work for prospecting has been awarded to M/s Geomin Consultants (P) Ltd., Bhubaneshwar. The following work has been carried out during 1995-96.

- Topographical survey of the PL area
- A systematic geological mapping in 1:2000 scales and preparation of geological sections has been carried out and enclosed as Plate-2 & 3
- Drilling of Four numbers of boreholes.
- Sampling and analysis of different types of ore samples have been carried out and enclosed in Annxure-E

The detailed prospecting work was entrusted to M/s Geomin consultants Pvt. Ltd. during 1995 –96 when the 1st License of prospecting was granted with the permission from the forest dept. to drill nine numbers of Boreholes in the PL area. However, 5 boreholes were drilled out of which detailed lithological & others geological informations were obtained from the 4 boreholes. These boreholes proved the depth persistence of the deposit alongwith it's others characteristic and nature of the Iron ore formation.

A systematic Geomapping in prescribed scale alongwith Geological plans & sections were made & sample reports covering the total area of 200 Ha. have been submitted alongwith M.L. application covering a part of the area of 25 Ha. to the competent authority.

Subsequently a fresh application of prospecting License in balance area of 175 Ha. has been obtained as because the period of prospecting was completed, the re-grant for prospecting was approved by the competent authority as such again a systematic geo-mapping under the prescribed scale enclosing geological plan & section & analysis report of few more samples have been made in 1997 to 1998 collected by engaging the technical staff of the Company.

In nutshell the prospecting of 175 Ha. has been done in all respect except the completion of the balance 4 boreholes. As per earlier prospecting scheme, which could not be made possible because of serious law & order problem. However, the result of the four boreholes earlier drilled to prove the depth persistent of the deposit and covering the influence area of the boreholes has been taken in consideration for calculation of mineralized reserves. It is pertinent to mention over here that the surface area of the mineral deposit is out cropping and samples were collected from the surface to establish the existence of the iron ore deposit in the adjoining area of Mining Lease area over 25 Ha.

ii) Proposed to be carried out:

The different lithounits are mapped on 1:2000 scales. To prove the lateral as well as vertical extension of the iron ore horizons a number of boreholes are proposed to be sunk in the area in a phase wise

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programme. The details of the proposed exploration programme is envisaged as under:

Proposed	exploration	program
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Phase		Depth of the Borehole(m)
	Bore holes	THE STATE OF THE S
First phase	3	15 m-30m or up to the depth of ore horizon
Second phase	2	15 m - 30 m or up to the depth of ore horizon
Third phase	1	15 m - 30 m or up to the depth of ore horizon

The exploration programme is so undertaken that the iron ore zone will—be proved thoroughly for its lateral and vertical extension during first two years of mining operation. One bore hole and one pit is proposed to be sunk at the dumping site of float zone after it's removal in the first year of operation to prove it's barrenness. During third phase, the area other than proposed mining area would be thoroughly explored.

The boreholes are proposed to be sunk up to a depth varying between 15 to 30 meters as per the ore recovery in which two boreholes one each in 2nd phase and third phase have been proposed to be dug upto 60m depth, so as to reach the bottom of the ore-zone which will enable to get a realistic picture of the depth ward continuity of the ore-zone. In addition to these 9 numbers of trial pits are also proposed to be sunk up to the depth 3 mts. having the dimension of 2.5m x 2.5m x 3m. It has been observed that the continuity of the loose, soft ore-zone is upto an average depth of 3m, while sinking of boreholes in the areas. However on actual excavation during mining, care shall be taken to mine out the entire depth of the float ore-zone.

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6.0 Method of Reserve Estimation:

A thorough study of the surfacial examination and borehole data in the area reveal that there occur mainly float ore and massive laminated iron ore. The physical limit of the ore bodies, different structural and lithological controls of the mineralisation etc., are some of the factors for estimation of reserves of an ore deposit. Based on these, the configurations of different lithounits have been delineated.

It has been observed that the mining lease over an area of 25 Ha has already been approved by the Govt. of India, therefore, this area was taken as Area-A and balance area of 175 Ha has been taken as Area-B. Though the boreholes sunk located in the area of 25 Ha however its influence covering the area of 175 Ha also which is primarily covering the slope of hill.

In Area-A, the study of the four-bore hole sunk established the thickness of ore zone up to an average 15mt depth from the surface level. The reserves of ore upto this level have been placed under 'Proved' category, while ore to a depth of 10 mt beyond the proved limit is placed under 'Probable' category.

In Area-B(175 Ha) the boreholes sunk in the adjacent area established the thickness of ore zone up to an average 9 mt depth from the surface level. The reserves of ore up to this level have been placed under 'Proved' category. The probable or possible category reserves have not been estimated. The reserves have been estimated by cross-sectional area method.

The average mineralisation factor for float iron ore and massive ore have been computed to be 25% and 75% respectively.

The reserves of iron ores in the area estimated by cross-sectional method is summarised in table-1 & 2.

The estimation is made as per the following assumptions.

 $Q = C \times L \times T$ (Where Q = Quantum of geological reserve in metric tonnes(MT),

C = Cross sectional area in square meters (m),

L = Length of influence of each section in meters(m)

T = Conversion factor in metric tonnes per cubic meters (MT/Cu.m).

m = Mineralisation factor 0.75 = for Insitu, 0.25 = for Float.

The geological cross-sections have been prepared, based on the surfacial observation as well as on the exploration result. The cross-sectional areas of proved, probable and possible ore zones as interpreted have been calculated & multiplied with respective length of influence to get the volume of ore zone for different sections. The volumes so calculated are multiplied with the tonnage conversion factor and mineralisation factor to get the geological reserves.



7.0 GOLOGICAL RESERVES & GRADES:

The geological reserves have been estimated in two levels. The first level when the Mining Lease recommended for 25 Ha is mentioned as Area-A and second level after grant of Renewal of Prospecting License over 175 Ha is mentioned as Area-B. The Geological Reserves in Area-A over 25 Ha has been indicated in Table-1 and of Area-B over 175 Ha is given in Table-2. The abstract of Geological Reserves in Metabodeli Deposit is given as under:

Gross Geological Reserves in Metabodeli(Tons)

S. No.	Area	INSITU Ore Body	Float Ore Deposit	Total Reserves(T)
Area-A	Proved Reserves(T)	2557275.00	214331.25	2771606.25
(25 Ha)	Probable Reserves	2121971.25	0.00	2121971.25
	Possible Reserves(T)	2257998.70	0.00	2257998.70
Area-B	Proved Reserves(T)	4208622.00	174562.00	4383184.00
(175	Probable Reserves	0:00	0.00	0.00
Ha)	Possible Reserves(T)	0.00	. 0.00	0.00
	Total Reserves (Tones)	1,11,45,866.95	3,88,893.25	1,15,34,760.2

Or say 11.53 Million Tonnes



Table - 1: Geological Reserves in Area-A over an area of 25 Ha.

A.	Proved F	Reserves					
Section Line	Sectional	Length of influence	Volume of	Miner alisatio n		Tonnage Factor	Reserves (In MT)
Consider		Control of the Control	(Cum)	Factor	(Cum)		
ed	(Sq M) 480	(m) 170	81600			3.5	214200.00
ab	101				the state of the s		The state of the s
cd	1350	- Hint		-			
ef	1325		-			3.5	A STATE OF THE PARTY OF THE PAR
gh				-	The same area		
ij	1127						
kl	330						
mn	1380			-			
op	1325			-	and the same of the same of		100
qr	675			-	1		
st	1150	140	101000	0.73	120730	Total	
n	Dychabla	Docomies				Total	2007270100
В.	380	Reserves		0.75	48450	3.5	169575.00
ab	-	1	112500	-	TANCON MANAGEMENT		
cd	1125		132500	-			
ef	1325					3.5	
gh	1225	100			- Control of the Control		
ij	862			-			
kl	487			-			
mn	747						
ор	750			-	The second second second second	-	
qr	. 480						
st	625	140		0.73	03023	3.5	2121971.25
6	D	D	Total			l	21217/1120
C.	Possible 1		136340	0.75	102255	3.5	357892.50
ab	802 1285						
cd			and the same of th				
ef	.1245						
gh	1147			-			
ij	1009			-			
kl	605				-		
mn	678		1	-			
ор	702	-	-				
qr	370			-			
st	530	140	74200 Total	0.75	33030	3.3	2257998.75



).	Proved(Floa	t Ore)					46856:25
	315	170	53550	0.25	13387.5	3.5	
ab		100	21900	0.25	5475	3.5	19162.50
cd	219			0.25	4675	3.5	16362.50
ef	187	100	18700			3.5	16275.00
gh	186	100	18600	0.25	4650		16537.50
ij	189	100	18900	0.25	4725	3.5	
	190	10	1900	0.25	475	3.5	1662.50
kl		100		0.25	4875	3.5	17062.50
mn	. 195			0.25	5800	3.5	20300.00
op	232	100			5625	3.5	19687.50
qr	225	100		.0.25		3.5	40425.00
st	330	140	46200	0.25	11550	3.3	214331.25
30			Total				214331.2.

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Table - 2: Geological Reserves in Area-B over an area of 175 Ha.

E. Section line	Proved I Cross sectional area(sq m)	Mean	Mean distance (m)	The second secon	Mineralisa tion factor	Tonnage factor	Reserve
C_1 - C_2	1000						2 52 500 00
C ₃ -C ₄	1000	1000	100	- 100000	0.75	3.5	262500.00
C ₅ -C ₆	830	915	100	915000	0.75	3.5	2401.87.00
C ₇ -C ₈	680	755	100	75500	0.75	3.5	198187.00
C ₉ -C ₁₀	700	690	100	69000	0.75	3.5	181125,00
C_{11} - C_{12}	1100	900	100	90000	0.75	3.5	236250.00
C_{13} - C_{14}	1550	1325	100	132500	0.75	3.5	347812.00
C_{13} - C_{14}	1500	1525	100	152500	0.75	3.5	400312.00
	1700	1600	100	160000	0.75	3.5	420000.00
C ₁₇ -C ₁₈	2000	1850	100	185000	0.75	3.5	485625.00
C ₁₉ -C ₂₀	1500	1750	100	175000	0.75	3.5	459375.00
C ₂₁ -C ₂₂		1250	100	125000	0.75	3.5	328125.00
C ₂₃ -C ₂₄	1000	950	100	95000	0.75	3.5	249375.00
C_{25} - C_{26}	900		100	77500	0.75	3.5	203437.00
· C ₂₇ -C ₂₈	650	775	100	72500	0.75	3.5	196312.00
C ₂₉ -C ₃₀	800	725	100	72300	0.70	Tota	4208622.00
F a	Droved I	Reserves	in float o	re area of 17	5 Ha		
Surface area(sq	Thickn of float zone (n	ess Vo	lume I	Mineralisati on factor	Tonnage factor	Res	ological serves (in nes)
m) 99750	2.0	199	9500	0.25	3.5	174	562.00

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<u>Table—3: Analysis Result of representative samples collected from boreholes.</u>

	Fe%	SiO2	Al2O3	P	S	LOI
		0.66	0.5	0.040	0.01	1.21
BH-1	66.96		0.3	0.021	0.03	1.32
	67.39	0.59	0.9			1.46
	66.28	0.66	0.9	1		1.54
·	64.39	0.75			1	1.38
BH-2	65.46	1.32	0.7	0.016	0.010	1.56
	68.34	0.69	0.4	0.016		1.39
	66.67	1.34	0.6			
BH-3	66.30	0.78	0.8		-	
5	67.8	0.77	0.7	-		1.70
	68.34	0.69	1.2	0.028	0.03	1.44
BH-4	66.39	1.36	1.1			2.14
ВП-4	67.38	1.31	0.6			2.11
	68.04	1.40	0.8	-		1.88
Avg Mean grade	66.908	0.947	0.707	0.008	0.006	1.00
Weighted avg grade	65.664	0.99	0.731	0.006	0.005	1.62
b. Float Ore	Zone			T = 0.00	T 0 01	1.23
F-1	65.08	0.62	0.4	0.030	0.01	
F-2	64.92	0.71	0.6			1.52
F-3	66.52	0.89	0.8			1.32
Avg Mean grade	65.50	0.74	0.6	0.030	0.01	1.36
Weighted avg grade	65.56	0.755	0.625	0.0075	0.0025	1.38

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7.2 Grade of Iron Ore:

As discussed earlier the 150 samples were collected from different types of ore and enclosed in **Annexure--**E.

The thirteen number of representative samples collected from boreholes /insitu iron ore zone and three representative samples from float ore zone are analyzed and given in table-3. The weighted average grade as well as average mean grade is given as under:

Table-4: Weighted average grade as well as average mean grade of
Insitu & Float ore

	Insi	tu ore zone	Float ore		
Analysis of	Avg mean grade	Weighted average grade	Avg mean grade	Weighted	
Fe%	66.90	65.66	65.50	65.56	
		0.99	0.74	0.75	
SiO2	0.947		0.60	0.62	
A12O3	. 0.707	0.731			
P	0.008	0.006	0.03	0.007	
S	0.006	0.005	0.01	0.002	
LOI	1.60	1.62	1.36	1.36	



8.0 CONCLUSION & RECOMMENDATION:

THE GEOLOGICAL APPRAISAL BASED ON THE GEOLOGICAL SURVEY & CORE DRILLING OF 4 BOREHOLES OF PL AREA OF 200 HECTS IN KOTHODI PROTECTED FOREST GRANTED TO M/S. NAGPUR ALLOY CASTINGS IS AS FOLLOWS;

INVESTIGATION & DRILLING HAS BEEN CONDUCTED IN A MANNER THAT THERE IS NO ADVERSE EFFECT ON THE ENVIRONMENT IT HAS BEEN RESTRICTED TO TOPOGRAPHICAL SURVEY CORE DRILLING AND SAMPLING ETC.

BASED ON THE CORE DRILLING & GEOLOGICAL MAPPING ABOUT 11.45 MILLION TONS OF IRON ORE RESERVES HAS BEEN FOUND. THE DETAILS OF RESERVES IS GIVEN AS UNDER:

S. NO.	AREA	INSITU ORE BODY	ORE DEPOSIT	T. RESERVES
AREA-A	PROVED RESERVES(T)	2557275.00	214331.25	2771606.25
	PROBABLE RESERVES	2121971.25	0.00	2121971.25
	POSSIBLE RESERVES(T)	2257998.7	0.00	2257998.70
AREA-B	PROVED RESERVES(T)	4208622.00	174562.00	4383184.00
THE TE	PROBABLE RESERVES	0.00	. 0.00	0.00
	POSSIBLE RESERVES(T)	0.00	0.00	0.00
	TOTAL RESERVES (TONES)	1,11,45,866.95	3,88,893.25	1,15,34,760.2

THE FOLLOWING AVERAGE QUALITY OF ORE FOUND AFTER DRILLING OF BOREHOLES & 150 NO. OF SAMPLES COLLECTED FROM THE AREA

			10000 100			1 (0	
AVG	66.908	0.947	0.707	0.008	0.006	1.60	
MEAN	-						
GRADE							

THE RESERVES ESTIMATED IN AREA-A HAS ALREADY BEEN RECOMMENDED FOR MINING LEASE OVER AN AREA OF 25 HA. THE BALANCE AREA OVER 175 OUT OF 25 HA SHOWN IN AREA-B COVERING ABOUT 50 HA IS RECOMMENDED FOR FURTHER APPLYING SECOND MINING LEASE FOR THE PL AREA.

D. L. Choudhary President (Mines)

Jayaswal Neco Industries Ltd.

फ्रमाक/12/म्-सर्वे/कुरुक्ट/ 3351 प्रतिः

> संधिव. मां प्राच्यासना. खानिव ताध्म विभाग, मो पाल.

विद्याः ने नायास्पुर शलाम जातिरंग तिण्यारा भानुगापपुर वनन्दंत वे जैतायद परिदेश में तिथत नेता बोद्गति शर्म पारनाप रक्या हुए है समञ्ज्ञीयर लोह अयस्क के पूर्वेत्तम अनुवाधित बावत्।

मेरल ना नपुर एताय हा स्टिंग लिंग मनुप्रतायपुर वनभड़न के अता गढ़ परिहेन के वनकाड को को ही है कहा है 426 स्थ 421 में तोड अपका हानिल के मा पढ़ार का पता लगाने हेतू 200 है. कि पर पूर्वेद्दा अनुमति, हेतू अना पतिल प्रमाण-एवं देने बावत आवेदन-पत्र दिया गया है। जिन्दिर स्था अधिनियम के प्रावधानों के अंतर्गत उन्हें निम्ना ति कित स्था पर पूर्वेद्दा अनुमति होता हिया जाने हेतु तहमति दी चाती है :-

१।१ प्रदेश उज्ञ है। हो कर्न की होगी। १२१ प्रदेश है। देवन ६ ईब क्यास ने ६ वोर होत कर वार्यों वहाँ कोई गहरी नहीं कोंद्रे वायरेगें।

13 प्रेसिन के दौरान न तो नोई पूस काटे /ठाटे वाये और न ही

किसी यूहा को कोई स्रांत पहुंचाई उपये।

हुथा प्रदेशम के दौरान कार्य में लगाये गये श्रामकों दारा वनों में की कोई क्षित पहुचाई जाती है जो उत्तका मुजादका को भी दारा जायेग दारा औक लित दिया जायेग । आवेदक से वतुल किया जायेग

858 खाविच उपलब्ध छोने पर वनभूषि लीच पर देने की जातन की क्रा बाह्यता नहीं रहेगी।

कृति साहम विभाग दाश अनुकृष्ति स्वीकृत किर वाने पर क्षेत्र में प्रदेश हेतु संवाहत वाने के उनका स्वीकृति होना होगी स्व पूर्वेक रे पोरहान संवोद्या का हिता रिकारी आसी निर्देशित वनेशिकार

की ताथ राग जारोगा ।

१७१ श्वेदक दारा उपरोक्त को नान्य करने संबंधी विक्रित वयन करने कार्य द्वारोश करने के पूर्व पनकंडला धिकारी स्वतुष्रतापुर वर्ष को दिन दिन कि कि पर पड़ सहस्रत किया नायेगा। किसी भी को जो उल्लब्ध होने पर पड़ सहस्रति सक पत नानी सायेगी स्व वर्ष के को तरकाल प्रभाय है कार्य रोकने का पूर्ण अधिकार सोगा।

कुछ। पूर्वेद्धान का जांच इतिवेदन कातन एवं इस कायानिय को मेनी व

मुख्य धन संराष्ट्राम-सर्हे। य०पुणमापासिकः 2/

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धान एवं धानवाविनियान एवं विकास अधिनिया, 1957 दी द्वारा 8|2| में पूर्वतय मुखाम्त के बजबाय किन बाबे के अधिकार केम्द्र माजन दारा अधिन्यामा कृषांक 161561/96 स्थ-७ दियांव ३०-१-१९११ से राज्य सासन को प्रदास किए या युधे हैं।

अधिदम पत्र का परीक्ष्म करने पर अधिक वेतर्थ नाक्ष्य स्थाय कारिया कि को विवा समार है जास मेटाबोदेशों का निम्न के समित शीर उपन्त है। त्वीहत इस्ये योग्यपाया नवा -

> व्या नंबर/कमाठींट नंबर 426ET SIT 427का भाग

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12/म-निर्देश का अंडिंग रिमार 28- १- १६ के सिर्देश में

पेशर्भ नामपुर स्नाय का न्ति । १७ र इन्द्रिट इन्ही शरिया

की और सुवनार्थ एवं बाधायक कार्यवाही हेंद्र !

महत्त्रोक्त शहतनी खोन्स साधन विभाग THE ESAL TOTAL

HAM West



FORM 'F'

MODEL FROM OF PROSPECTING LICENCE

(Renewal). (See Rule 15(2))

THIS INDENTURE made the 2714 day of October between the Governor of M.P./the President of India, Through the Addl. Collector Durg (hereinafter referred to the State Government which expesssion shall where the context admits be deemed to include his successor stand assignees) of the one part and,

when the license is an individual Shri 10 drie Shai Bettomal chawfavill. Hudco, Rhihi Tah. Dug. Hame of person with address and occupation) (hereinafter referred in as 'the licence' which expression shall where the context so muits be deemedito include his heirs, executors, administrators appresentatives and permitted assigns.).

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(Here specify that amount of prospecting fee and the manner and time of payer 1). mingal Rusinces deptt. As bes madhya pracush port, for Renewal of Prasteching a cence. 1. Prospeting fee @ 5/- pur year Rg 1750/- vide challe for 2 years over 175 Heats. Dolted 24/06 2. Security deposit: vide challe 24/06/97 a. mak making fee Vide challe MO. 1/11 Date 246/97 SCHEDULE - C ROYALTY Rate of royalty on mineral shall be in accordance with the second Schedule of the Act. (a) Here insert the mode of arriving at sale prices (2) at pits, mout of mineral/minerals. (b) The manner and time of payment of royalty. huses On bonelt of Covernment of Machga Pradesh. WES Ray Kunia S/0 BTR Bafria N.CHAWCA 21/2/97 APPROVED PUR ALLOY CASTINGS LIMITED AUTHORISED SIGNATORY

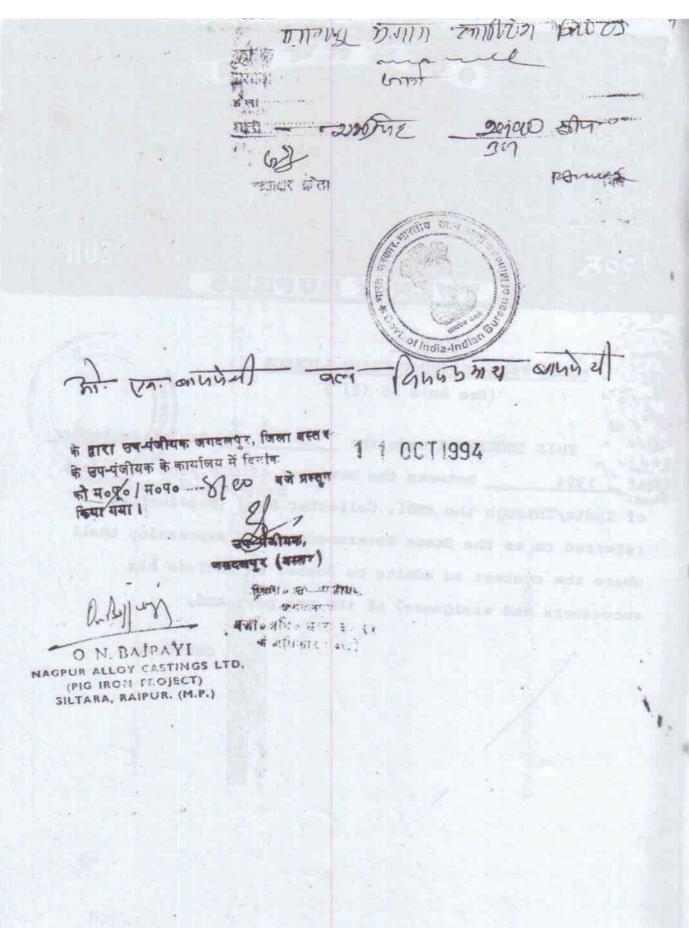


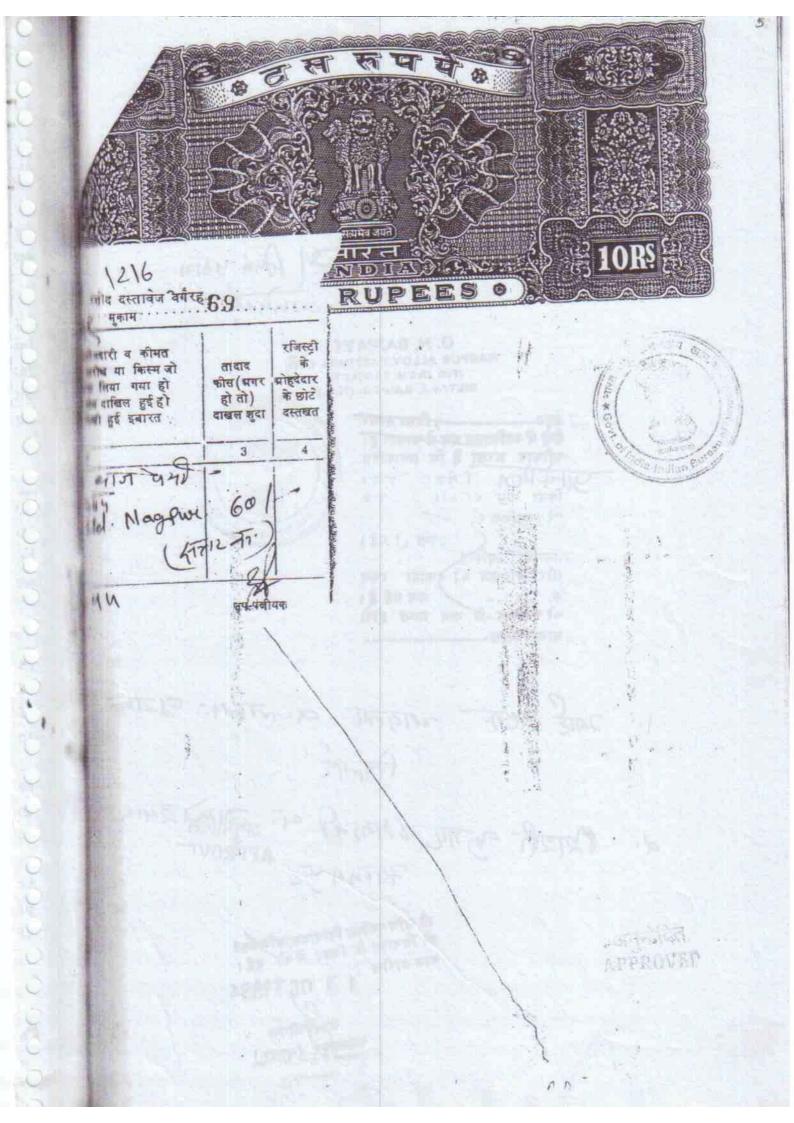
THIS INDENTURE made the ____ day of Septembe

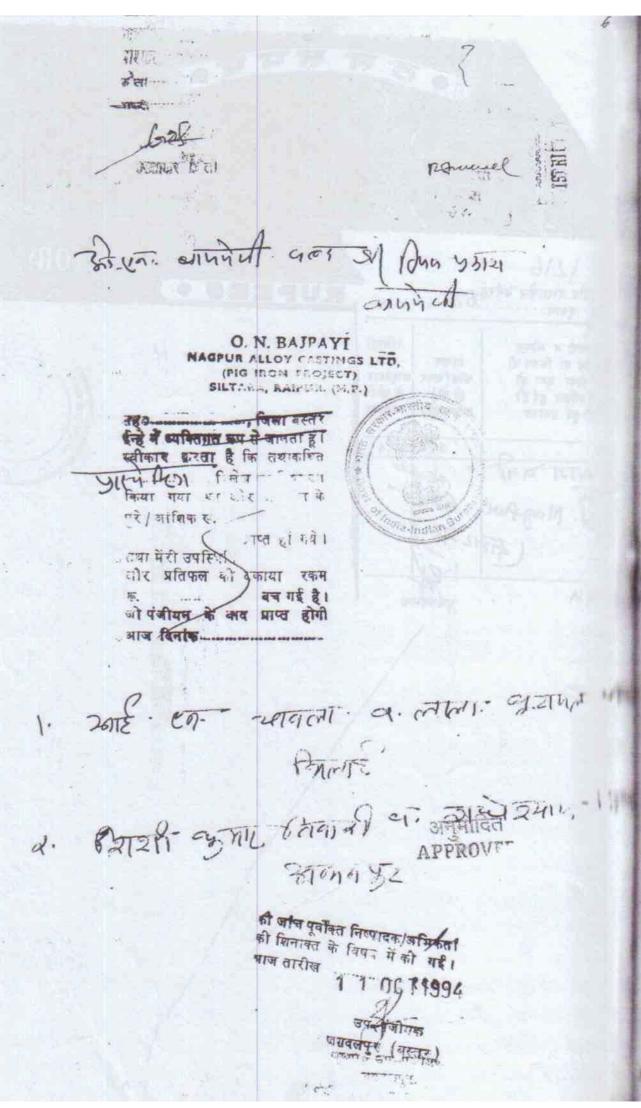
of India/Through the Amol. Collector Burg (hereinafter referred to as the State Government which expression shall where the context so admits be deemed to include his successors and assignees) of the one part and,

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FORM IFT VASCASS

MODEL FROM OF PROSPECTING LICENCE.

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	with address and occupation shall where the licensees' which expression shall be deemed to include the licensees' which expression shall be deemed to include the licensees' which is the licensees' which	s, executors,
	a seemed to motore	PTIIII COCC
_	be deemed to include their respective heir be deemed to include their padministrators representatives and their padministrators representatives are gistered fi	N.A
0	the licence is a registered 13	The state of the s
	be deemed to be de	The Louis Control of the Control of
	(name & address of partner) son of	A di
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U.	27 20	MANUAL CALL
1 -1	of all ca of and st in partnership under the firm name and st	yle ofof the firm)
	in partnership under the	(name of 1932)
	registered under the Indian Partnership	Act +1932(9
0	registered under the Indian ration at	at an
24	registered under the interest office at and having their registered office at	(hereinafter is
1	in the town of the Licensees' which expreferred to as 'the Licensees' which expression and the company of the Licensees' which expression are company of the Licensees' which are company of the Licensees' whi	ression shall where
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1	to context so admits be deemed to include the context so admits be deemed to include the context so admits and the context so admi	and legal represen-
10	to context so respective heirs, execut	Management of the second
	partners, their resigns).	agreement and the committee of
000	partners, their responses tatives and permitted assigns).	
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	MISSINY) ON BAJPAYI	
1	NACPUR ALLOY CASTINGS LTD.	
	O. N. Balpay (PIG 18 1 1 OFECT)	6.44
	Neppill Altey Castinas Ltd.	
0	MADDILL MALAL	

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Christe 141 For Miles And Ame of company) a comp
registered under Tow PANY'S (act under which
corporated) and having its registered office at NACOUL ALL
CASTING ISL FR MIDE I Debot How Himpho Ross, NAGPOR (add)
(hereinafter referred to as 'the licenses' which expression
shall where the context so admits be deemed to include it
successors and permitted assigns) of the other part.
WHEREAS the licensee/licensees has/have applied to the
Government in accordance with the Mineral Concession Rules,
1960 hereinafter referred to as the said Rules) for a live
to prospect for TRON ORE in the
lands specified in Schedule 'A' hereunder written and Dellas
ated in the plan herewith annexed (hereinafter referred to a
the said lands) and has/have deposited with the State Govern
ment Rs. 500/-
as the prescribed security in respect of such licence and a
have paid to the State Government the sum of Rs.
Thousand's as the prescribed prompto
fee for two months/years in advance in
respect of such licensee and WHEREAS there is no object ton
the grant of such licence (and WHEREAS the Central Government
has approved the grant of the licensee) NOW THESE PRESENTED
WITNESS as follows:-
PART - I
In consideration of the Consequence
In consideration of the fee royalties, covenants, agreements hereinafter reserved and contained and on the
of the licensee/licensees to be paid, observed & performed to
State Government hereby grants and admises unto the licenses
the sale right and license
A LAND TO THE PARTY OF THE PART
(1) To enter upon the lands and to search for, win or
away and dispose of minerals won. To enter upon the said
lands and to search for by quarring boring and digging on
otherwise all or any Iron Ore
(name of Minerals) lying or being within under or throughout
the said lands.

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In the case of minerals other than gold, silver, precious dones or mica, this licence shall not confer upon the licensee right to win or carry away the minerals for commercial purposes.

Provided that the licensee may win and carry away for Santo

- Any quantity of such minerals within the limits specified in Schedule III of the Mineral Concession Rules, 1960, without any payment:
- Any quantity of such minerals exceeding such limits but not exceeding twice such limits, which is won during prospecting operations on payment of royalty for the time being specified in the Second Schedule to the Act in respect of those minerals;
 - Any quantity of lime-stone not exceeding 500 tonnes for testing its use in any industry specified by Central Government in this behalf, on payment of royalty for the time being specified in the Second Schedule to the Act in respect of Limestone;
 - with the written approval of the State Government the licensee may carry away quantities of minerals in excess of twice the limits specified in Schedule III, on payment of royalty for the time being specified in the Second Schedule to the Act, for chemical, metal*lurgical, ore dressing and other test purposes.

the provisions of clause 5 and 6 of part II of these presents for the purpose aforesaid to clear undergrowth and brush wood and threes with the sanction of the Deputy Commissioner Collector previously obtained in writing, to make and use any durins or water course on the said lands for purpose as may be necessary for effectually carrying on the prospecting operations and for the workmen employed thereon and with the like sanction to use any water provided always that such use shall not all mish or interfere with the supply of water to which any cultivated lands. Villages, building or watering places for live stock has hereto fore been accustomed and that no streams, springs or well shall be fould or polluted by any such use or the prospecting operations hereby licensed.

O. N. Balpay!

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ON RATEAST TINGS LTS.

SILTARA, RAIDUR (M.F.)

Hospur Alley Custines Ltd

4. To bring upon and erect machinery etc. on the said land.
To erect and bring upon the said lands all such temporary said shed and structures, stream and other engine, machinery conveniences, chattels and effects as shall be proper and necessary for effectually carrying on the prospecting operations hereby licensed or for the workmen employed thereon.

RESERVED neverthless to the State Government full and liberty at all times to enter into and upon and to grow or demise to any person or porsons whoseever liberty to into and upon the said lands for all or any purposes other than those for which sole right and licence are hereby conferred upon the licensee/licensees and particularly without hereby in any way qualifying such general power liberty) to make on, over or through the said lands, roads, tramways, railway & ropeways as shall be connecessary or expendient for any purposes and to obout of the said lands such stone, earth or other r may be necessary or requisite for making repairir taining such roads, tramsways, railways and rope repass at all times over and along such roads to ways and ropeways for all purposes and as occass hall require.

TO HOLD the said right and linence unt to lisen a licensees from the date of these presents for the to the referred to the said term).

PAYING therefore annually in advance a figure of the objecting being objecting for each year or portion of a year and in sely of the expiration or sooner determination of the seld term class of all fees, rates, taxes, charges, did on and royalty at the rates specified in Schedule 'B' for C' heregode will an on the minerals won and carried away to the licensee/l

Convenants by licensee In Asses PROVET

The licensee/licensee ereby covenant/covenants the State Government as for lower licensee

- Payment of prospecting fee: To pay annually in advance prospecting fee in respect of ensuing year or part of the rear at such rates and time as are specified in Schedule.
- To carry on work in workmen like manner: To work and arry on the operation hereby licensed in a fair, orderly, wilful and the workman like manner and with as little amage as may be to the surface of the lands and to trees, buildings, structures and other property thereon.
- Maintenance of correct account: Licensee/licensees
 thall maintain a correct and faithful account of all the
 spenses incurred by him them on prospecting operations and
 the quantity and other particulars of all minerals
 btained during such operations and their despatch:
- (5) No mining operations within 50 meters of public works to : The licensee/licensees shall not work or carry on or Now to be worked or carried on any prospecting operations or to any point within a distance of 40 meters from any Way line except with the previous written permission of Railway Administration concerned or from any reservoir anal or other public works such as public roads and buildings. or inhabitted site except with the previouswritten permission of the Deputy Commissioner/Collector or any other officer authorised by the State Government in this behalf and ctherwise then in accordance with such instructions, restrictions and conditions either general or special which may be attached to such permission. The said distance of 50 meters shall be masured in the case of railway line, reservoir or canal orizentally from the outer of the bank or the outer tedge the Atting as the case may be and in case of a building horizentally from the plinth hereof. In the case of village reads no working shell be carried on within a distance of 10 more of the outer edge of the cutting except with the previous written permission of the Deputy Commissioner/Collefor or any other officer duly authorise by the State Covernment

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G. M. (PIG INCH FROJECT)

NAGDUI Alloy Cestings Ltd. SILTARA, RAIPUR. (M.P.)

in this behalf and otherwise then in accordance with number directions, restrictions in this behalf and otherwise the accordance with such directions, restrictions and additions either general or special, which may be attached to such permission.

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'Railway Administration, shall have the same meaning on the defined to have in the Indian Railways Act, 1890, by classe (6) of section 3 of that Act. (Public Road' shall means that which has been constructed by artificially surfaced as distribution a tract resulting from repeated use. Village Road.

- (6) Not to cut or injuretrees in reserved forest of a substitute out previous permission: Not to cut or injure any timber or trees, on any unoccupied or unreserved land without the written permission of the Deputy Commissioner/Collector without such permission disturb the surface of any road of enter upon any public pleasure ground, burning on burlet ground or any place held sacred by any class of permission interfere with any right of way, well or tank.
- enter upon any land in occupation of a person: Not to enter upon any land in the occupation of any person without the consent of the occupier no to cut or in any way land any trees, standing crops, building, huts, structure property of any kind of the occupier of any land or my person without the written consent of such owner, occupied person.
- (8) Not to commence work in reserved forest without pressure permission: Not to enter upon or commence prospecting a protecting or reserved forest situated upon the lands with obtaining the written sanction of the District Forest upon otherwise than in accordance with such conditions be prescribed in such sanction.
- reasonable satisfaction and pay such compensation as may be assessed by lawful authority in accordance with the law force on the subject for all damage injury or disturbance which may be done by him in exercise of the powers plant this licence and to indemnify and keep indemnified to the completely the State Government against all claims which be made by any persons in respect of any such damage, or disturbance and all costs and expenses in connection therewith.

IN MEDIEN AND CONTROL

- To pay a wage not less than the Minimum Wege prescribed by the Central or State Government from time to time. 9.A.
- To comply with the provisions of the Mines Act 1952
- 9.C. To take measures, at his own expense, for the protection of environment like planting of trees reclamation of mined land, use of pollution-control devices, and such other measures as may be prescribed by the Central or State.

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- To pay compensation to the Occupier of the surface of the land on the date and in the manner laid down in these rules.
- (b) in part IV, in paragraph(3), after the words, "condition of the prospecting licence" the words "had undertaken prospecting operations to establish mineral resources in such land shall be inserted.
- (c) In paragroraph (9A), for the words 'equal to half the period for which the licence was originally granted" the words "not execeeding the period prescribed for the r renewal of prospecting licence under sub-section (2) of section 7 of the Act, or the period for which an application is made, whichever is less" shall be substituted.
- (10) Forfeiture of security deposits etc: Whenever the security deposit of Rs. 500=00 any part thereof or any further sum hereinafter deposited with the State Government in replenishment thereof shall be forfeited or applied by the State Central Government, punishment to the power hereinsfter declared in that behalf the lincreased licensee/licensees shall forthwith deposit with the State Dovernment such further sum as may be sufficient with the mappropriated part thereof to bring the amount in deposit with the State Government upto the sum of Rs.__ 500=00
 - (11) Licence not to be controlled by trust, syndicate etcAPPROVED The licensee/licensees shall not be controlled or permit nimself/themselves to be controlled by any trust, syndicate, corporation. firm or person except with the written consent of the State Government which will be given only after beining the prior approval of the Central Government in wases where prospecting licence executed is in respect of inerals included in the Pirst Schedule to the Act.

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(12) Report of accident: The licensee/licensees shell without delay send to the Deputy Commissioner/Collector a report of any accident causing death or serious bodily light to serious injury property or seriously diffecting or collecting gering or property which may occur in the course of the operations under this license.

(13) Section 18 to the Act 67 of 1957: The licensee/
licensees shall be bound by such rules as may be issued to
the Central Covernment under section 18 of the Min'es and
Mineral (Regulation and Development) Act,1957 '67 of 1957)
and shall not carry on prospecting or other operations under
the said licence in any way other than as prescribed under
these rules:

At such times and occassions as may be required the licensessal licensees shall well and truly measure or weigh or cause to be measured orweighed upon some part of the said lands to minerals from time to time from the said lands by the licensees and all such minerals as may require to be measured or weighed for the purposes ascertaining the royalty parable under these presents shall be so measured or weighed. The licensee/licensees agrees/agree not to take away from the lands any minerals so own until the same shall have been measured or weighed as the case may be. The licensee/licensees further agrees/agree to give the licensee/licensee/licensees further agrees/agree to give the licensee/licensee/licensees/lic

(15) Plugging of bore holes, fenching etc. and restoring the surface of land after determination or abandonment: Save in the case of land over which the licensee/licensees that have been granted a mining lease, on or before the explicit or sooner determination of the licence, he shall within the months next after the expiration or sooner determination of the licence or the date of abandonment of the undertaking, whichever shall first occur, securely plug any bore or lane and fill up or fence any holder excavations that may have been made in the lands to such an extent as may be required by the Deputy Commissioner/Collector concerned and shall be like extent restore the surface of the Wand and all building thereon which may have been damaged or destroyed in the

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of prospecting provided that the licensee/licensees shall not be required to restore the surface of the land or any building in respect of which full and proper compensation has already

- (16) Removal of machinery etc. after expiration, determination been paid. or abemdonment : Upon the expiration or sonner determination of this licence or the abandonment of the expirations hereby. licensed whichever shall first occur, the licensee/licensees shall remove expenditiously at his/their own cost all buildings, structures, plant, engines, machinery, implement utensils and other property and effects theretofore, erected or brought by the licensee/licensees and then standing or being upon the said lands and also minerals therefore own by the dicensee/ licensees under the authority of these presents and then a being upon the said lands PROVIDED that this convenant shall not apply to any part of the said lands which may be comprised in say mining lease granted to the licensee/licensees during the subsistence of this licence.
 - (17) Report of work done before the refund of security deposits: At any time before the said security deposit is, return to him/them or transferred to any other account or (within one month) after the expiration or sooner determination of the licence or abandonment of operations, whichever is earlier, the licensee/licensees shall submit to the State Government confidentially a full report of the work done by him/them and disclose all information acquired by him/them in the course of operations carried on under this licence regarding the geology and mineral resources of the area covered by the licence.

(17.A) Report of information obtained by licensee : 10.

- (1) The licensee shall submit to State Government:-
 - (a) A quaterly report of the work done by him stating the number of persons engaged and disclosing in full the geological geophysical grad or other valuable date collected by him during OVED the period. The report shall be submitted with in three months of the close of the period to which it relates;
 - (b) Within three months of the expiry of the licence, or abandonment of operations or termination of the licence, whichever is earlier, a full report of the work done by

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potations, gur un hack aus titletentum aus neutrers at bestiepen in him and all information relevant to mineral resources acquired by him in the course of prospecting operation in the area covered the licence,

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- (2). While submitting reports under glause (1), the licensee may specify that the whole or any part of the report of the data submitted by him shall be well confidential; and the State Covernment shall thereupon keep the specified poptions as confident for a period of two years from the expiry of the licence, or abandonment of operations or terminat | of the licence whichever is earlier.
- Employment of foreign nationals : The licensee/ licensees shall not employ, in connection with the prospecting operation any person who is not an Indian National except with the previous approval of the Central Government.
 - (19) Furnishing of Geophysical data : The licensee/licensees shall furnish :
 - (a) All geophysical data relating to prospecting or engineering or engineering and ground water surveys such as anomaly maps, sections, plants, structures, counter maps, logging collected by him/them during the course of prospecting operation to the (Director General Geological Survey of India) Calcutta.
 - (b) All information pertaining to investigation of radioactive minerals collected by him/them during the course of prospecting operations to the Secretary to the Department of Atomic Energy, New Delhi. Date or Information referred to above shall be furnished every year reckoned from the date of commencement of the period of the prospecting licence.

POWERS TO THE GOVERNMENTOV!

It is hereby agreed as follows :-

Cancellation of the licence and forfeiture of the deposit in case of breach of conditions: - In the case of any breach of any condition of licence by the licensee/licenseed of his transferees or assignees, the State Government shall give a reasonable opportunity to the licensee/licensees of stating his/their case and where it is satisfied that the

ench is such as cannot be remedied, on 6-1-10 prolice to the licensee, licensees or his transferees or wignee, determine the licence and or forfeit the whole or any 50020e . of the said deposit of Rs. mosited under the convenants in that behalf herein before mined or towards payment or satisfaction of any claims to pensation which the Government has or may have against the helan bu mensee/licensees and/or which may be made by any person or mons against the licensee/licensees in exercise of any of powers conferred by this licence and in or towards payment any damages, costs or expenses with may become payable as result of or in connection with any suits or proceedings, th may be instituted against the State Government in respect any such damage or injury and also and in or towards payment the expenses of the carrying out or performance or any works matters which the licensee/licensees shall fail to carry or perform after the expiry or sooner determination of licence or the abandonment of the operations hereby wenced in accordance with the convenants in that behalf wein before contained or in payment of satisfaction of any wh claims, damages, costs and expenses.

When the properties of licensee are not removed from lands in time : If any buildings, structures, plant engines, whinery, implements utensils or other property or effects any minerals which ought to be removed by the licensee/ Hensees from the said lands, in accordance with the convenants that behalf hereinbefore contained, be not so removed within calender month after notice in writing requiring their smoval shall have been given to the licensee/licensees by the Hate Government the same shall be deemed to become the weperty of the State Government and may be sold or disposed W for the benefit of the State Government, in such manner the State Government shall deem fit, without any liability to my any compensation or to account to the licensee/licensees respect thereof.

Licensee/Licensees to pay for work done on his bahalfppROVED If any of the works or matters which in accordance with the envenants in that behalf hereinbefore contained are to be seried out or performed within the time specified in that shalf, the State Covernment may cause the same to be carried ut of performed and the licensee/licensees shall pay the Mate Government on demand all expenses which shall be incurred a such carrying out of performance of the same.

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(4) Right of pre-emption:

- (a) The State Government shall from time to time and all times during the said term have the right to be exercised by notice in writing to the licensee/ licensees of pre-em/tion of the said minerals(and products thereof) lying in or upon the said lands or elsewhere under the control of the licensee/ licensees and the licensee/licensees shall with all possible expendition deliver all minerals or products or minerals purchased by the State Government under the power conferred by this provision in quantition at the time, in manner and at the place specified in the notice exercising the said right.
- (b) Should the right of pre-emption conferred by this present provision be exercised and a vessed chartered to carry the minerals or products thereof procured on behalf of the State Government or the Central Government by detained on demurrage at the port of loading, the licensee/licensees shall pay the amount due for demurrage according to the terms of the charter party of such vessel unless the State Government whall be satisfied that the delay is due to cause beyond the control of the licensee/licensees.
- (c) The price to be paid for all minerals or products of minerals taken in pre-emption by the State Govern ment in exercise of the right hereby conferred shall be the fair market price prevailing at the time of pre-emption, PROVIDED THAT in order to assist in arriving at the said fair market price the licens / licensees shall if so required furnish to the State Government, for the confidential information of the Government, particulars of the quantities descript lonand prices of the sold mineral or products thereo! sold to other customers and of charter enter into for freight for carriage of the same and shall produce to such officer or officery les may be directed by the State Government original or authenticated copies of contracts and charter parties entered into for the sale of freightage of such minerals or products.

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In the vent of the existance of a state of war or emergency (of which existence the president of India shall be the sole judge and a notification to this effect in the Gazette of India shall be conclusive proof) the State Government with the consent of the Central Government shall from time to time and at all times, during the said term have the right (to be exercised by a notice in writing to the licencee/licencesses) forthwith take possession and control of the works, plant, machinery and premises of the licensee/licensees on or in connection with the said lands or the operations under this licence and during such possession or control the licensee/ licensees shall confirm to and obey all directions given by the or on behalf of the Central or State Government regarding the use or employment or such works, plants, premises and minerals, PROVIDED THAT fair conpensation, which shall be determined in default of agreement by the State Government shall be paid to the licensee/licensees for all loss or damage sustained by him/them by reason or in consequence of such powers conferred by this clause and PROVIDED ALSO that the exercise of such powers shall not determine the said term hereby granted or affect the terms and provisions of these presents further than may be necessary to give effect to the provision of this clause.

PART - IV

It is hereby further agreed as follows :-

(1) Transfer of license and fee payable: During the sublistence of this license or of any renewal thereof the licensee/ licensees may, with the previous sanction of the Government

Itence or any right, title or interest thereon holding a certificate of approval and Income Tax Clearance Certificate APPROVED on payment to the State Government of a fee of rupees one hundred.

Provided that the State Government shall not five its

i) The licensee has furnished an affidavit alongwith his application for prospecting licence specifying therein the amount that he has already taken or proposes to take as consideration from the transferse;

O. N. Bajpayi Nagpur ALLGY CASTINGS LTD,

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Renewal of a prospecting licence: If the licensee licensee be desirous of taking renewed licence of the premises hereby demised or of any parts or parts of that for a further to me from the expiration of the term hereby granted and is other the eligible he/they shall apply to the State Government for renewal at least ninety days prior to the date of expire lon of the term of licence under these convenants and shall par the rents and royalties hereby reserved and shall observ and perform the several convents and agreements herein contained and on the part of licensee/licensees to be observed and performed upto expiration of the term hereby granted. The State Government on receipt of the application for removal shall consider it in accordance with relevant sections of the Act and relevant rules of the Mineral Concession Rules, 1000 and shall pass such order as it may deem fit. If renewal is granted, the State Government will at the expenses of the licensee/licensees and upon his their executing and deliver be to the State Government, if required the counterpart therety execute and delivery to licensee/licensees the renewed licence of the said premises or part thereof for a further term of he years at such rates of royalty and on the terms and subject to such rates and royalties and on such terms and subject to such convenants and agreements including this present convenant be renewed and shall in accordance

(name of minerals on the day next following the expiration of the term hereby granted).

ing mining lease: On or before the determination of the licence or any renewal thereof, the licensee/licensees shall have a preferential right for obtaining a mining lease in respect of whole or part of that land over any other person provided that the State Government is satisfied that the licensee/licensees has/have not committed any breach of the terms and conditions of the prospecting licence and is otherwise a fit person for being granted.

(3) A. If an application for renewal of the prospecting licence made in accordance with the rules is not disposed of by the State Government before the expiry of the licence, the licence shall be deemed to have been renewed for a period equal to half the period for which the licence was originally granted.

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- (4) Extension of period of prospecting licence: If the licensee/licensees before the determination of this licence or of any renewal thereof applice/apply for the grant of a mining lease over the whole or any part of the said lands, the period of this licence shall be further extended over that part of the said lands until his application for mining lease of disposed of, deemed to have been refused under sub-rule (1) or sub-rule (3) as the case may be, or rule 24 of the Minerals Concession Rules, 1960, or any other law in force.

 No fee shall be payable in respect of any pariod so extended.
 - months after the determination of this licence or of any renewal thereof, as the State Government shall elect after concession Rules 1960, the amount then remaining in deposit with the State Government and required to be applied to any of the purposes in part III of these presents mentioned shall be refunded to the licensee/licensees or if the licensee/licensees shall have obtained a mining lease over the said lands or any portion thereof, be retained at the credit of the licensee/licensees on account of the fees, rents and royalties to become payable under such lease. The amount shall in no case carry any interest whatsoever.

PART - V GENERAL PROVISIONS

It is lastly agreed as follows :-

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the receipt of an offer of compensation for any damage which is likely to arise from the proposed operation of the licensee/ licensees, the occupier of the rights and powers reserved to the State Government and granted by this licence, the licensee/ licensees shall report matter to the State Government and shall deposit with it the amount offered as compensation and if the State Government is satisfied that the amount of compensation is reasonable or if it is not so satisfied and the licensee/

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licensees shall have deposited with it such further amount as the State Government may consider reasonable, the State Government shall order the occupier to allow the licensee/ licensees to enter upon the said lands and carry out such operations as may be necessary for the purpose of the licence.

In assessing the amount of such compensation the State Government shall be guided by the principles of the Land . Acquisition Act.

(2) Delay in fulfilment of the terms of licence due to force majeure: Failure on the part of the licensee/Licensees to fulfil any of the terms and conditions of this Licence shall not give the State Government any claim against him/them or be deemed a breach of the licence in so far as such failure is considered by the State Government to arise from force majeure. If the fulfilment by the licensee/licensees of any of the terms and condition of this licence the delay from force majeure, the period of such delay shall be added to the period fixed by this licence.

The expression force majeure means act of God, war, insurrection, riot, civil, commotion, strike, tide, tidal wave, storm flood, lightening, explosing fire, earthquake and any other happening which the licensed licensees could not reasonably prevent or control.

- (3) Services of notice: Every notice required to be given to the licensee/licensees shall be given in writing to such persons as the licensee/licensees may appoint for the purpose of receiving such notices or if no such appointment is made then the notice shall be sent to the licensee/licensees by registered post addressed to him/them at the address shown in his/their application for the licence or at such other address in India as/they designate from time to time, and every such service shall be deemed to be proper and valid service upon the licensee/licensees and shall not be questioned or challenged by him.
- (4) Discovery of new minerals: The licensee shall report to the State Government the discovery of any minerals not specified in the licence within a period of sixty days from the date of such discovery and shall not undertake may inspection operation in respect of such minerals unless such minerals is included in the licence.

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- Immunity of State Government from liability to pay compensation : If in any event the drders of the State Government are revised, reviewed or cancelled by the Central Government in pursuance of proceeding under Chapter VII of the Mineral Concession Rules, 1960, the licensee Vicensees shall not be entitled to compensation for any loss sustained by the licensee/licensees in exercised of the power and privileges conferred upon him/them by these presents.
- The licence deed is executed at the capital of the State of Madkya Prodesh (name of the State) and subject to the provision of Articles 226 of the constitution of India it is hereby agreed upon by the licensee and the State Government that in the event of any dispute in relations to the areas under prospecting licence, condition of the licence deed and in respect of all maters touching the relationship of the licencee and the State Government, suits of petitions shall be fixed in civil courts at ______ Jagdal Pur_ (name of the city) and it is hereby expressly agreed that neither party shall file a suit or appeal or bring any action at any place other than the Courts named above.

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

SCHEDULE - A

The land covered by the licence.

Here insert the description of lands which area, Mundaries, name of District, Sub-Division, Thana etc. and Cadastral survey numbers if any. In case a map is attached, refer the map in the description to be inserted.

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SCHEDULE - B . .

PROSPECTING FEE

(Here specify that amount of prospecting fee and the manner and time of payment).

As the M.P. Grovt. MRD order No F-2/854/93/12/2 Blipal Ot- 14/9/94. has mentioned Prospecting Licence Fee @ Rs. 5/- Per Hest. or Part thereof. The Prospecting Licence for of Rs. 1000/- has been deposited in the S.B.I. Jull vide Challan No. 21 Dt 20/9/94 for Rs. 50/-Vide Challan . No. 26 Dt. 26/9/14 For Rs. 950/

- (1) Rate of royalty on mineral shall be in accordance with the second Schedule of the Act.
- (2) (a) Here insert the mode of arriving at sale prices at pits, mout of mineral/minerals.

(b) The manner and time of payment of royalty.

on behalf of Government of Madhya Pradesh.

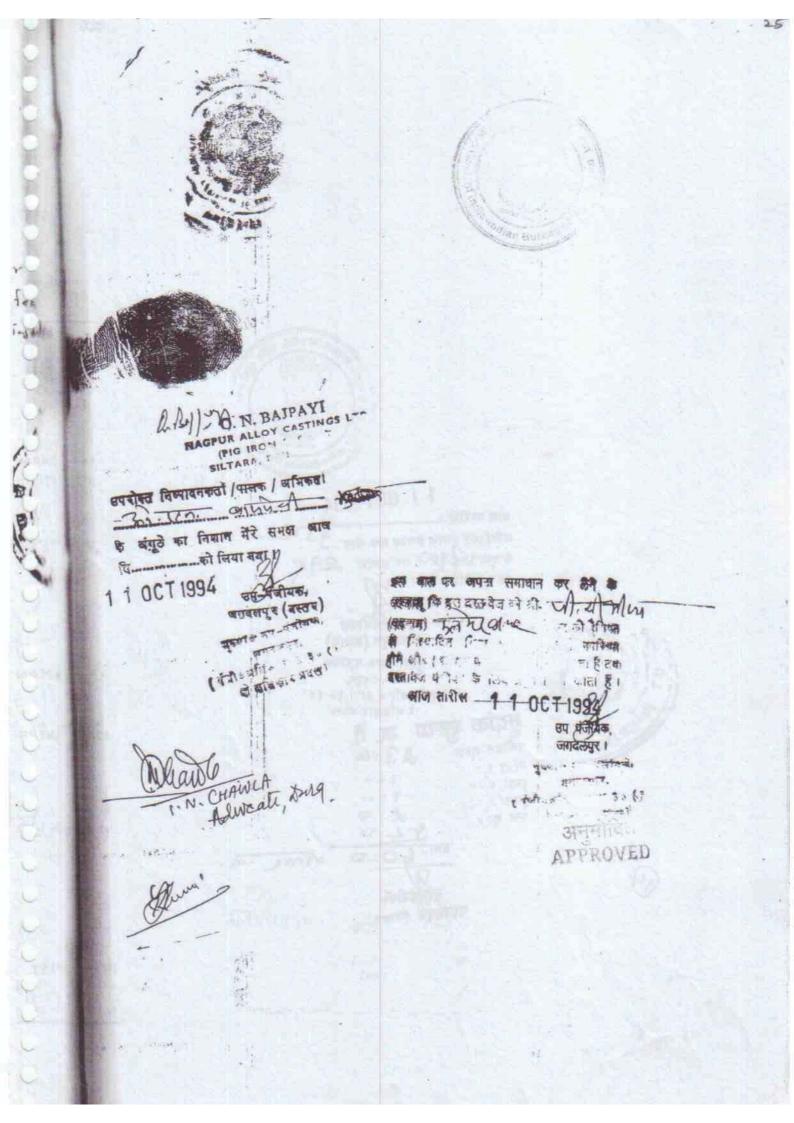
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> ज्यान्त्रजीयक जगदलपुर (बस्तक)

नुकार - दर-ग नीयक, काल त्यूर.

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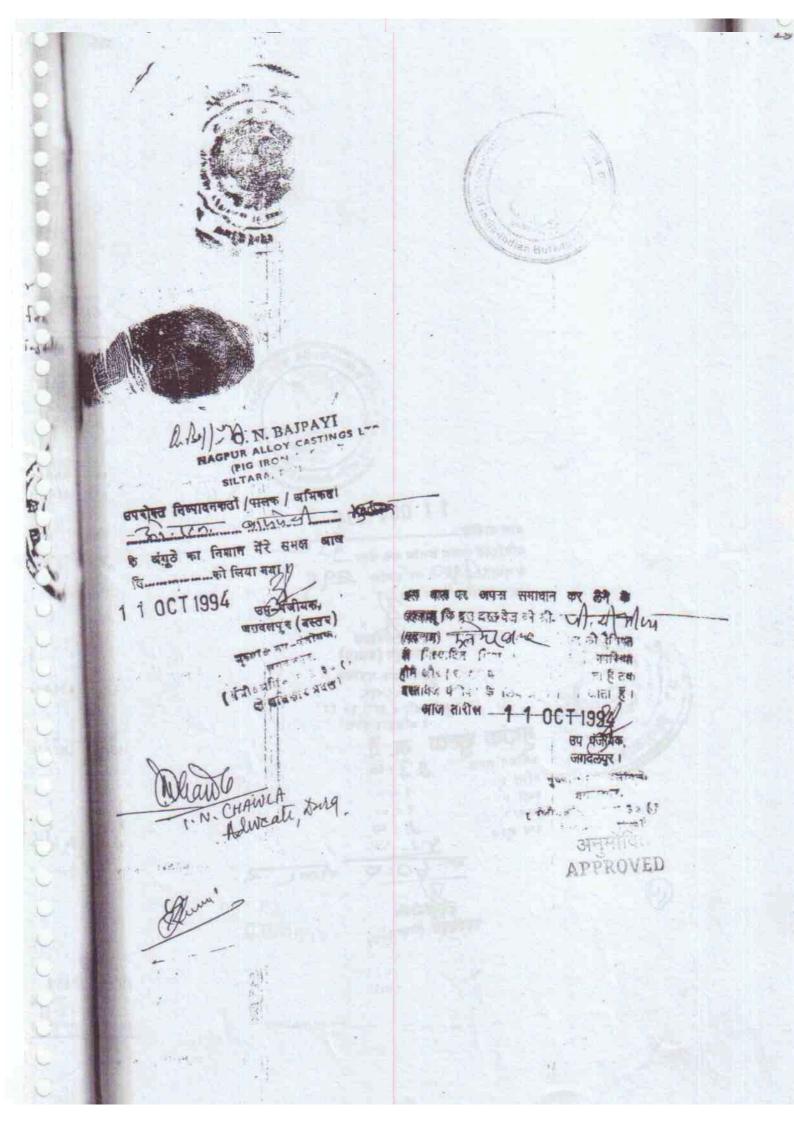
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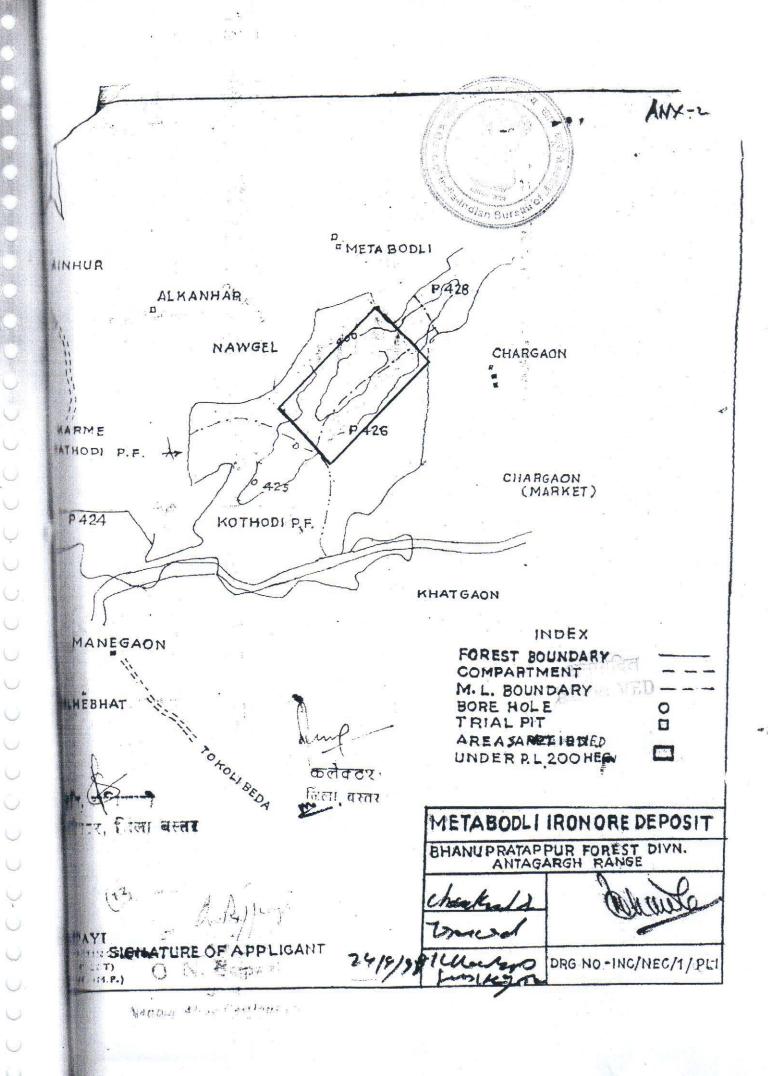
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ग-प्र- शालन खीनव गाधन विभाग के बायन क्रमांक यक 3-854/93/12/2 दिनाव 14-9-94 में दी गई 时:-

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पूर्वेक्षम है दौरान न ता कि विश्व कारे काटि वाये 313 बोर म किसो बुक्त को कीई क्षीत गईवाई जाये। क्वेंबर के दोरान जी भी गठ । खोदे जायें। उनकी 121 एन: सम्तल किया वाने और यदि बानायक तुना तो वन क्षेत्र के बाहर से निददी लाकर जाली जावे स्वेक्ष के दौरान कार्य में लाये गये मिकों दारा 838 वमी को कोई क्षीत बहुबाई जाती है तो उसका नुशासमा जो भन्ने सन नंतला कियारी वारा अकिस्त क्या जावेगा अवेदक संस्थान से वसन िक्या जावेगा।

खनिज उपलब्ध होने पर वन भीम लीज पर देमे 84 8 की शासन की बाध्यता नहीं रहेगी।

पूर्वेक्षण के दोरान संबंधित क्षेत्र के किसी विमोदार 358 अधनारी जी निरीक्षण उत्ने पर्व द्विट रखने देत निर्देशित किया अवदेश वार्थ ।

अविदन संस्थान से उनरोक्त रही नाच्य करने हेत 368 लिखित बचन एवं स्वेक्न कार्य प्रारंभ करने से सूर्व िक्रिया वावे।

पूर्वेक्षण का जांचे प्रतिवेदन गातन एवं इत कायां लय 878 ह मुख्य वन सरक्त को भी भेजा जावे।

अनमोदित हैं औ APPROVED! 1/2

Negpur Alloy Castings Ltd.

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P.

CONSOLIDATED LITHOLOG WITH ASSAT VALUE

ate of commencement: 8.12.95. Tate of close :29.12.96.

Bore Hole No. 1. Total Depth - 29 mtrs.

		γ	F			N 16.3	28	1 11	
	1(M)		Lithology			Assa			
rom	_To	Thick(M)		Fe	SiO ₂	A1203	P. a	S	LOI
0,0	0.75		Lateritic Ore	40.60				0.006	
75	2.75	2.00	Lateritic Iron Ore	41.60	0.84	6.30	0.007	0.005	3.10
75	5.00	2.25	Sludge of soft Iron Ore.	68.06	0.83	0.54		0.005	
00	6.05	1.05	Sludge of soft Iron Ore	66.06				0.008	0.700.000
05	9.00	2.50	Sludge of soft iron Ore	66.08				0.006	
00	9:801	0.80	Massive Iron Ore	68.68				0.008	
10	11.00		MassiverIfon Ore	68.08	0.82			0.006	
00	13.50	1.50	Sludge of soft Iron Ore	67.06	0.91	1.26	0.006	0.008	1.48
10	16.00	2.50	Sludge of soft Iron Ore	67.97	0.92	1.23	0.006	0.007	1.52
10	18.00	2.00	Sludge of soft Iron Ore	67.66	1.02	1.21	0.005	0.002	1.56
70	19.00	1.00	Sludge of soft Iron Ore	66.28	0.92	1.02	0.002	0.005	
10	21.00	2.00	Sludge of soft Iron Ore with blue dust	61.06	Zeron	1.06		0.005	
100	22.50	1.50	Sludge of soft Iron Ore with more silica		15.20	1.79	0.006	0.005	0.75
	26.00	3.50	Soft Iron Ore with good quantity of Silica.	61.92	22.20	sales and	•	0.005	
	27.00	1.00	Powdery Iron Ore with high silica.	60.92	1	1.78		0.003	
	29.00	2.00	Powdery Iron Ore with high silica.	59.73	10.80	1.05	0.005	0.030	0.82

MINUATION SHEET

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P.

CONSOLIDATED LITHLOGS.

Date of Commencement: 4.1.96.

Bore Hole No. 2 Total Depth . 35 mtrs. Date of Close : 17.2.96.

Dep	oth(M)	Thick(M)	Lithology
From	То		
0.0	1.50	1.50	Massive Iron Ore.
- 1.50	2.00 ·	0.50	Massive Iron Ore
2.00	3.60	1.60	Massive Iron Ore
3.60	6.50	2.90	Massive IroncOre.
6.50	8.00	1.50	Sludge of soft Iron Ore.
8.00	9.00	1.00	Sludge of soft Iron Ore.
9.00	10.50	1.50	Lateritic Iron Ore.
10.50	13.50	2.00	Sludge of soft Iron Ore.
13.50	16.00	2.50	Sludge of Iron Ore with good quantity of Silica.
16.00	17.50	1.50	Sludge of soft Iron Ore with Blue Dust.
17.50	20.50	2.00	Sludge of Iron Ore with Blue Dust.
20.50	22.00	1.50	Sludge of Iron Ore containing High Silica.
22.00	26.00	4.00	Blue Dust with Silica.
26.00	28.00	2.00	Sludge of Iron Ore with Blue Dust.
28.00	30.50	2.50	Sludge of Iron Ore with Blue Dust.
30.50	35.00	4.50	Iron Ore with Blue Dust.



BORE HOLE NO. 3.
TOTAL DEPTH - 20 MTRS.

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P.

CONSOLIDATED LITHOLOGS

	i	CONSOL	IDATED LITHOLOGS
Depth	2(M)	Thick(M)	Lithology
From	То		to the state of th
0.0	0.40	0.40	Lateritic Soil.
0.40	1.50	1.10	Lateritic Iron Ore.
1.50	4.50	3.00	Micaceous Hematite.
4.50	6.50	2.00	Micaceous Hematite.
6.50	8.00	1.50	Lateritic Iron Ore.
8.00	9.50	1.50	Sludge of soft Iron Ore.
9.50	12.50	3.00	Sludge of soft Iron Ore with good quantity of Silica.
12 50	14.00	2.50	Sludge of Iron Ore.
12.50	15.50	1.50	Sludge of Iron Ore with Silica.
14.00	17.50	2.00	Iron Ore with high Silica.
	19.00	1.50	High Weathered Quartzite.
17.50	20.00	1.00	Quartzite.



TINUATION SHEET

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P.

CONSOLIDATED LITHOLOGS.

Bore Hole No. 2(A)

Depth(M	1)	Thick(M)	Lithology				
From	То						
0.0	1.50	1.50	Massive Iron Ore.				
1.50	3.00	1.50	Massive Iron Ore.				
3.00	4.50	1.50	Massive Iron Ore.				
4.50	6.50	2.00	Massive Iron Ore.				
6.50	8.00	1.50	Sludge of soft Iron Ore.				
8.00	10.00	2.00	Sludge of soft Iron Ore with silica.				



MINUATION SHEET

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P.

CONSOLIDATED LITHOLOGS.

Bore Hole No. 4.

		80					
Depth(M)		Thick(M)	Lithology				
From	То						
0.0	0.50	0.50	Lateritic Soil.				
0.50	1.50	1.00	Lateritic Iron Ore.				
1.50	3.00	1.50	Micaceous Hematite.				
3.00	4.50	4.50	Micaceous Hematite.				
4.50	6.00	1.50	Micaceous Hematite.				
6.00	7.00	1.00	Sludge of soft Iron Ore.				
7.00	9.00	2.00	Sludge of soft Iron Ore with Silica.				
9.00	10.00	1.00	Sludge of soft Iron Ore with blue dust.				
10.00	11.00	1.00	Sludge of soft Iron Ore with high silica.				





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TINUATION SHEET

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P. CHEMICAL ANALYSIS REPORT

Table 2(i)

70

MAIN ORE BODY - ZONE I

% OF CONSTITUENTS DETERMINED

Sample No.	Fe	SiO ₂	A1203	P	S	LOÎ
1	2	3	4	5	6	7
Z-I(1)	64.02	1.80	3.98	-	-	2.66
Z-I(2)	62.28	1.83	2.96		2	2.03
Z-I(3)	64.08	1.53	3.26		1-1	2.16
2-1(4)	65.68	1.32	3.56			2.21
z-I(5)	61.52	1.32	3.43		I II St	2.53
Z-I(6)	62.68	1.56	3.66		185-	2.16
Z-I(7)	60.02	1.55	3.26	_	15	2.18
z-1(8)	61.43	1.52	3.36		1. W.	2.62
z-I(9)	62.07	1.80	2.76		· 2 2.	2.03
Z-I(10)	62.05	1.96	2.96	,_=		2.51
2-1(11)	64:05	1.80	3.89		-	2.76
z-I(12)	63.28	1.38	2.69	-		2.03
z-I(13)	62.49	1.56	3.45	-		2.16
Z-I(14)	64.17	1.52	3.26	-		2.21
Z-I(15)	60.20	1.85	2.76		-	2.30
Z-I(16)	61.45	1.32	3.25	-	-	2,62
Z-I(17)	65367	1.96	3.57	-		2.18
2-1(18)	62.07	1.57	2.79	_		2.51
z-I(19)	63.72	1.34	2.52		-	2.05
Z-I(20)	64.29	11.78	2.89		-	2.34

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INTINUATION SHEET

METABODELI IRON ORE DEPOSIT DIST: BASTAR, STATE: M.P.

Table 2(ii

CHEMICAL ANALYSIS REPORT

MAIN ORE BODY - ZONE II

% OF CONSTITUENTS DETERMINED

0 0	CONSTIT				100
Fo	SiO.	A1,0,	P	S	LOI
	-	The second secon	5		7
		7	0.043	0.02	1,-28
67.95	0.68		10.039	10.017	1.20
68.23	0.53			17.6	1.46
67.05	0.66	0.50		THE	2.42
1	1.60	2.00	-	1 1 ×	2.66
	11 80	3.98		1 121	1.77 1 /37
64.02	10.69	0.40		1 150	17 23 7
67.95		The same of the sa	0.017	0.000	1100
68.02			1		2.00
65.95	1.35	200 00			1.42
67 12	1.49	0.82			2.40
		3 02			1.38
65.70	11.50	10.50			1.75
67.85	0.78				
66.73	0.92			_	1.26
68.05	0.86	0.40			2.35.
The second secon	1.45	2.95	40.000		1.42
	1 34	0.82		•	
1		3 35			2.36
	The second secon				
64.23					1.54
66.12					2.30
65.05	1.27	3.09			2.40
	1.46	0.73			1.35
		0.59			2.45
64.35	1.04				2.34
	11.60	1 27	+	-	
65.32	1				1:46
64.29	1977				1.77
66.36	1.35				1.20
62 EA	11.89	2.41			1.37
67.34				=	1.59
66.84		2.21		THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	1.23
1		0.84	,	PROVE	
1					. 2.00
The second second		1			2.45
65.24	1 (1.70	-			11.97
		0.85	,000 to		2.40
	9 1.49	3.09	1		
	67.12 65.70 67.85 66.73 68.05 65.70 67.12 65.79 64.23 66.12 65.05 67.73 64.35 67.25 65.32 64.29 66.36 67.54 66.84 66.84	2 3 67.95 0.68 68.23 0.53 67.95 0.66 65.70 1.60 64.02 1.80 67.95 0.69 68.02 0.74 65.95 1.35 67.12 1.49 65.70 1.50 67.85 0.78 66.73 0.92 68.05 0.86 65.70 1.45 67.12 1.34 65.79 1.96 64.23 .76 64.23 .76 64.23 1.46 64.35 1.04 65.05 1.27 67.3 1.46 64.35 1.04 67.25 1.60 65.32 1.76 64.29 0.79 66.36 1.35 67.54 1.89 65.46 0.66 66.84 1.57 64.47 0.69 66.13 1.27 65.24 1.70 65.95 1.35	2 3 4 67.95 0.68 0.60 68.23 0.53 0.50 67.95 0.66 0.50 65.70 1.60 2.00 64.02 1.80 3.98 67.95 0.69 0.40 68.02 0.74 0.50 65.95 1.35 2.42 67.12 1.49 0.82 65.70 1.50 3.02 67.85 0.78 0.50 66.73 0.92 0.85 68.05 0.86 0.48 65.70 1.45 2.95 67.12 1.34 0.82 65.79 1.96 2.35 64.23 .76 2.75 64.23 .76 2.75 67.25 1.60 2.10 65.32 1.76 1.27 64.29 0.79 3.02 66.36 1.35 0.41 67.54 1.89 0.50	Fe SiC ₂ AI ₂ O ₃ 2 3 4 5 67.95 0.68 0.60 0.043 68.23 0.53 0.50 0.039 67.95 0.66 0.50	Fe SiO2 Al2O3 5 6 2 3 4 0.60 0.043 0.02 67.95 0.68 0.50 0.039 0.017 68.23 0.53 0.50 0.039 0.017 67.05 0.66 0.50 0.00 0.017 65.70 1.60 2.00 0.6 0.00 0.00 64.02 1.80 3.98 0.00 0

CONTINUATION	SH	f.		
--------------	----	----	--	--

			L		6	12.65
1		1.80	13.45			
-II(34)	64-14		3.55			1.45
-II(35)	66.73	1.41			- 61	1.20
	68.24	0.54	- 10-35	-		1.28
-11(26)	65.24	1.50_	12,67		-	2.00
-II(37) -II(38)	68.03	0.76	0.57		-	1.45
-II(39)	66.18	1.82	3.02		-0.00	1.82
-II(40) -II(41)	65.35	1.42	0.82		+-	2.10
-11(41) 11(42)	67.26	1.09	2.41		-	1,22
-II(43)	66.54	1.75	0.50		-	1.79
-II(44)	64.73	0.68	7.29	and the same of th	+	位,35
-II(45)	65.57	1.96				1 2 40 2 66
2-II(46)	64.82	1:37	336		+=	- WT 137 12 12 12 12 12 12 12 12 12 12 12 12 12
Z-II(47) Z-II(48)	167.69	0.75	0.50 5.50 8.50		1-	TO THE SAME
Z-II(49) Z-II(50)	66.53 55.70	1.46	70.71		<u>. i</u>	The state of the s



TOTAL THE

TABODELI IKUN 200 (FOSI) ISTY BASTAE STAIR MARK

Table 2(iii)

CHEMICAL ANALYSIS PEFOST

FLOOR ORE BODY - SART ZONE

3 OF	CONSTITUENT	2 707	1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
		-	The state of the s

		CONCIL				1-1-	
Sample No.	Te	Si0,	Al,Ca	F	S	LO I	\
	-+	2	N		6	7 1 3	·
11		0.68	2.46	10,029	0.02	2.66	2
E-Z(1)	62.63	0.76	2.13	· my	12	2.03	2
E-Z(2)		1.52	2.32	0.018	0.03	2.01	A Library
E-Z(3)	60.52 58.56	1.68	2.01		_	2.32	Sec. and opposite
E-Z(4)	158.56	1.60	2.03		+		
E-Z(5)	56.82	1.62.	2.23.	eran		2,16	
	58.62	1.52	2.01	and the second		2.52	
E-Z(6)	60.52	1.61	2.01			2.56	
E-Z(7)	159.56	11.37	2,52			2:01	
FZ(8)	TOWNS A STATE	4 6	E AND	1111	Anna Carana and Anna and Anna	1= 00	
==10:		17.74	F 17	E 91	· ·	1.32	
E-2(9)				and the same of th		2.52	-
E-Z(10)		13.67	7, 5	See at	•••	12.32	
E-Zilui	11 - 12					2.03	
E-Z(11)	131.55	0.56	2.15	1		2.10	age commercial has
E-Z(12)	182.53	11.25	7.2			2.10	
E-7/17)						2,23	
E-Z(13)	58.65	1.86	2.10	2 791	17	2021	
6-8(13)				and the second s		2,16	A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
E-2(14)	58.62	1.52	12.32		1 -**		
0-2(14)				war to a proceed to the contract of the		12.32	
E-Z(15)	156.82	1.62	2.51		+	1.39	and the second second
E-Z(16)		11.44				2.01	
$\frac{-2(10)}{-2(17)}$	- 159.5E	1.38	12. 24	The state of the s		2.55	
F-2(18)	一门玩玩	1.67	2.42			$-\frac{1}{2.31}$	
E-Z(19)	61.73	11.52	2.65	474	-	4 - 3.1	
P-7(T2)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the second s		2.36	
r-z(20)	60.32	11.71	2.01	-	••	2.30	
和-2(20)		1		2	2		
	i.					2.48	Types and an effect of the
F-2(21)		138	7.1		4	2	
1-7/21;				an este graves		2 37.	AMERICA A PROPER
1 1-2(22)	16323	1.57		and the second		2.37	
1-2(23)		11:57	12.13			1 . 30	
1 6-6 (25)		-6		2.03		2.28	
1 E-Z(24)	- TEE. ES	T7 27	- 12.95	1	1 47444	12.20	
1-2(24;					-	2.10	
1-2(25)	58.32	2.46	2.46	The second secon		A STATE OF THE PARTY OF THE PAR	AD - LANGE AL
7(26)	161 24	1.55	2.59			10 07	nith "
*Z(27)	63.78	11.76	2.16			一十分一行	
7=2(28)	一十五十二五	12.29	2.16 2.32			12:27 12:01 11:36	and the same of th
7-2(29)	160.25	12,36	2.55	-		- 12:28	
	59.23	1.46	12.37	L	1	2.58	7
2(30)	55.45	1.36	The second second	And Administration		2.83	1
+7.(31)	165.15	1-36	2.33	The second secon		12.83	1
117.(32)	102-10						TEX
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWI							61.n W.

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CONTINUATION SHEET

METABODELI IRON OFF DEPOSIT

DIST: BASTAK, STATE: M.P. .Tabel 2(iv)

CHEMICAL ANALYSIS FEPORT

FIGAT ORE BODY - SEST ZONE 8 OF CONSTITUENTS DETERMINED									
Sample No.	Fe	sio ₂	Al ₂ 0 ₃	2	Povit. On	604			
1	2	3	4	5	6 30	The Control of the Co			
-	62.90	1.52	2.76			2.53			
$\frac{W-Z(1)}{W-Z(2)}$	1.61:78	11.32	2.56			2.32			
$\frac{W-Z(2)}{W-Z(3)}$	63.78	1.56	2.32			2.32			
W-Z(4)	62.89	1.54	2.56		_	2.52			
W-Z(5)	64.12	1.52	2.32	-		1.36			
1 211	60.92	2.26	2.56			2.01			
W-Z(6)	62.58	2.32	2.01			2.32			
W-Z(7)						2.01			
W-Z(8)	62.90	1.56	2.32						
W-Z(9)	58.32	2.35	2.33			2.32			
W-Z(10)	57,56	2.01	2.32			2.01			
	57.63	2.01	2.35			2.07			
W-Z(11)	58.25	2.33	2.56	-		2.32			
W-Z(12)	60.29	2.26	2.37		-	2.01			
$\frac{W-Z(13)}{W-Z(14)}$	$\frac{160:29}{63:76}$	1:56	2:32		_	2.23			
	62.95	1.65	2.12			2.13			
W-Z(15)	62.95					2.25			
W-Z(16)	64.76	11.32	2.65	(winners)	* 59				
W-2(17)	59.72	1.36	2.12			2.57			
$\frac{W-Z(18)}{W-Z(18)}$	60.43	1.21	2.02	anomatic .	_	2.23			
ESPECIAL CONTRACTOR OF THE PROPERTY OF THE PRO	61.34	1.25	2,27	and the second s		2.3			
W-Z(19)	58.29	2.29	2.38			2.12			
W-Z(20)	59.75	1.96	2.21		_	2.32			
W-Z(21) W-Z(22)	62.58	12.32	2.56		~	2.01			
	64.12	1.53	2.32	and the second s		1.36			
W-Z(23)			2.53			1.38			
$\overline{W}-Z(24)$	57.45	1,25		The state of the s	 	2.36			
W-Z(25)	57.75	1.63	2.24		+	12:10			
W-2(26)	60.56	1.62	2.42	ATOM	 	2.16			
W-Z(27)	59.34	1.57	2.52	,		2.25			
W-Z(28)	61.23	1.38	2.26	Annual Control of the		2.21			
W-Z(29)	58.93	2.19	2.26			2.56			
W = Z(30)	57.24	2.15	2.23						
$\frac{W-Z(30)}{W-Z(31)}$	59,34	1.56	2.52	And the second s	-	12-3			
W-2(32)	60.52	1.62	2.82		<u></u>	12.8e			

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CROLOGICAL REPORT OF METABODULT JRON ORE DEPOSIT

ANTAGARH RANCE, BHANUPRATAPPUR DIVN. DISTRICT - BASTER(M.P.).

AREA - 200 HECTARES



APPLICANT + NAGPUR ALLOY CASTINGS LTD. F-8, M.I.D.C. INDUSTRIAL AREA, HINGNA ROAD, NAGPUR-440 016.

ADDRESS - 178 A, INDUSTRIAL AREA, FOR BHILAI - 490 026(M.P.): CORRESPON-DENCE.

CONSULTANT- V.N. SANT



1. INTRODUCTION :

- 1.1 The Nagour Alloy Castings Ltd., a Company under the NECO Group(India's largest Foundary Group) has planned to establish an Integrated Steel Plant at Siltara Distt. Raipur, Madhya Pradesh. The work on the plant is already in progress and it is schedule to be commissioned by end of 1995. As such the requirement of storing Iron Ore deposit is planned to start by September 1995.
- their own captive mines for the supply of mineral
 Raw materials such as Iron Ore, Lime Stone & Dolomite etc.
- 1.3 The Covt. of Madhya Pradesh has constituted a task force for allotment of mineral prospects for raw materials under the Chairman ship of Director (Geo & Mining) Raipur. The Metabodeli deposit area has been recommended in principal as Iron Ore source for the above said Plant of the Company.
- Licence to the Company vide Letter No.2-g54/93/12/2

 Dt.14/9/94 which is valid for one year, Subsecuently
 the Company has performed the agreement formalities
 and has got the area demarcated with the permission
 of Forest department.

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2.6 Details of the area.

Arcadestral survey map of the Prospecting Lience granted area as approved and certified by the Collectorate of (Geology & Mining) is enclosed details of the area:

State & Distt : M.P. & Bascar

Tehsil : Bhanupratappur

Village : Metabodeli Hill between Metabodeli

& Chargaon villages.

Camp. Nos. : 426(P) & 427(P)

Area : 200 Hects.

Ownership : The State Govt. of Madhya Pradesh

(Forest Deptt).

Chargaon which is located on the castern oot hill of Metabodeli deposit. To reach Metabodeli one has to go upto Pondgaon on Bhanupratappur-Narayanpur road and then from Pondgaon to SW on a Kacha Road on Bhanupratappur Narayanpur road. The mearest railway station for Metabodeli deposit is Dalli-Rajhara which is approximately 84 Kms, The proposed Durg Bailadila Railway line will pass through Antagarh which is about 35 Kms away.

2.8 CLIMATE

The area enjoys moderate temperature. The avarage rainfall of the area is 140 cm, with major precipitation between last week of June to Sept. Winter rains occurs in the month of December January.

Maximum temperature goes upto 45°C in the month of May-June, which the minimum temperature goes down upto 9°C in the month of December-January.

2.9 PREVIOUS WORK

The Iron Ore deposit of the area were brought to light by Geological survey of India in the year 1989-90. Geological mapping was done by imminent Geologists in 1950-51, 59-61, 81-83. Iron Ore pockets Metabodeli hill was delineated by the Directorate during the field season 1986-87 to 1988-89.

3. GEOLOGY & RESERVES

3.1 TOPOGRAPHY The metabodeli area is represented by a prominent elongated hill trading North StarBurg South West direction. The highest point is marked by triangular station 578 (20°02': 80°581"0). The will acts as a water divide between the water cources in North and Chargaon river in South with dendrite drainage pattern.

3.2 REGIONAL GEOLOGY

The area comprises rocks of the Archean and Precambrian period represented respectively by Bengpal Group and the Bailadila Group.

The Bengpal group comprise dominantly granite gneisses with minor micaceous quartzite. Whereas the Bailadila Group(Latamarka Group) includes quartzites, banded hematite quatzite(BHQ), ferroginious shales, tuffites etc.

3.3 LOCAL GEOLOGY

The rocks of Metabodeli area comprise Archean gneisses and the Precambrian quartzites, banded hematite quartzite(BHQ)/- banded Iron Ore formation and ferruginous shale/tuffites.

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Extensive lateritisation of the rocks, especially the ferroginous shales is observed along the lower foot hi area of the Metabodeli hill.

Structure: The area forms part of the region which has undergone intense tectonic activity. However within the Metabodeli area the structure is imple. The rock formation shows a general North East- South West strike trend with steep dips to the south hast.

3.4 IRON ORE BODY

In this area the Iron Ore zone is associated with the banded Hematite Quartzite, the Iron Ore zone occurs mainly as massive to with some laminated hematite, following the higher reaches of the Metabodeli hill range. The Ore zone trend in a general North East—South West direction with steep $75^{\circ}-80^{\circ}$ South easterly dips.

The Iron Ore body/zone is distributed over two areas on the Metabodeli hill.

- 1. Main Body: It is located on the top of the hill 578. It extends over a strike length of nearl 1600m. with an average width of 60m. It comprises mostly massive hematite with some laminated type of ore.
- 2. South Rody: It occurs on the top of a high mond South West of the main body. Here the Ore zone measures 200m along strike with a width of about 40m. It contains compact laminated type of ore.

 Apart from above in-situbodies, fair amount of

float ore is spread over mainly the South-Eastern slo

3.5 RESERVES AND GRADE

The 'Probable' reserves of Iron ore from Metabodeli area has been estimated at 15.6 million tornes.

This includes reserves of 14.4 million tonnes from the main body and 0.12 million tonnes from the South body, up to a depth of 30 meters.

Based on the available analtical data the Iron Ore from the area is expected to contain on an average +64% Fe. The Al203, Si02 and P205 content would be respectively within the range of 0.30 to 3.00, 1.00 to 3.10 and 0.06 to traces.

Thus the Iron Ore would be ideally suited for Pig Iron and Steel making purposes.

(V.N. SANT)
Consultant(Geolog;).

Jayaswal Neco Industries Ltd.

(STEEL PLANT DIVISION)





Siltara Growth Centre, RAIPUR-493111 (C.G.) Phone: +91-7721-264241/63, Fax: +91-7721-2

E-mail: spd@necoindia.com

Date: 08.06.2011

Ref:JNIL/Mines/2011/228-A

To.

The Secretary, Govt. of Chhattisgarh Mineral Resource Department Mantralaya, Raipur (C.G.)

Sub:- Request for Geo-referenced Cadastral map of the lease area

Ref:- (i) IBM letter No. KNK/Fe/MPLN-1012/NGP, dated 09.05.2011. (ii) IBM Circular No. 11013/3/MP/90-CCOM VOL-VII dated 06.04.2010.

Respected Sir,

This is in reference Circular No. 11013/3/MP/90-CCOM VOL-VII, dated 6.4.2010 of Chief Controller of Mines, I have to submit a Geo-reference cadastral map showing disposition of lease area. Therefore, we request you to kindly provide us "Georeference cadastral map showing disposition of lease area. The details of lease area is as under:

Metabodeli Iron ore Mine, over an area of 50.00 Ha

Village - Metabodeli, Forest Division - Bhanupratappur, District - Kanker (Chhattisgarh)

Lessee-M/s Jayaswal Neco Industries Ltd., F-8, MIDC, Higna road, Nagpur.

Thanking you,

Yours faithfully,

For Jayaswal Neco Industries Ltd.

(D. L. Choudhary)

Nominated Owner

Enclosure: (i) IBM letter No. KNK/Fe/MPLN-1012/NGP, dated 09.05.2011.

(ii) IBM Circular No. 11013/3/MP/90-CCOM VOL-VII dated 06.04.2010.

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(STEEL PLANT DIVISION)





Siltara Growth Centre, RAIPUR-493111 (C.G.) IN Phone: +91-7721-264241/63, Fax: +91-7721-264.

E-mail: spd@necoindia.com

Date:08.06.2011

Ref:JNIL/Mines/2011/

To, The Regional Controller of Mines (RCM), Nagpur Regional Office. Indian Bureau of Mines (IBM), 6th Floor, Indira Bhavan, Civil Lines, Nagpur-440001

Sub:- Submission of Geo-referenced Cadastral map.

Ref:- Your letter No. KNK/Fe/MPLN-1012/NGP, Nagpur, dated 09.05.2011

Respected Sir,

This is in reference of letter No. KNK/Fe/MPLN-1012/NGP, Nagpur, dated 09.05.2011, "Geo-reference cadastral map showing disposition of lease area" in accordance to circular No. 11013/3/MP/90-CCOM VOL-VII dated 6.4.2010 of the Chief Controller of Mines, that I have sent a request letter to State Govt. for the same. After the receiving of map from State Govt., I will immediately prepared the data as per the above mentioned circular and submit it to the IBM within six months.

Thanking you

Yours faithfully,

For Jayaswal Neco Industries Ltd.

(D. L. Choudhary)

Nominated Owner

Enclosed: Copy of the application to Sate Govt.

APPROVED

REGD. OFFICE: F-8, M.I.D.C. INDUSTRIAL AREA, HINGNA ROAD, NAGPUR - 440 016 (MS) INDIA PHONE: +91-7104-237276, 236251, 395682-84, FAX NO.: +91-7104-237583/236255





DRAWINGS

A.