

FORMAT FOR FINAL REPORT OF PROSPECTING

(To be submitted after expiry/ completion/abandonment of prospecting operations along with form B (see sub-rule 1 of Rule 9 of Mineral Conservation and Development Rules, 2017 & sub rule 5 of rule 18 of Mineral Auction Rules, 2015))

1.		Particulars of the Prospecting Licence / Prospecting Licence cum Mining Lease
A	(i)	Type of mineral concession (tick mark whichever is applicable) (a) Prospecting Licence(PL) (b) Prospecting- Licence- cum Mining Lease(PL cum ML)
	(ii)	Name of mineral(s) for which the PL/PL cum ML is granted:
	(iii)	(a) Name of the licensee: (b) Postal address with pin code: (c) Telephone Number (Office): (d) Fax number (Office): (e) Mobile No.: (f) Telephone Number (Residence): (g) E-Mail id:
	(iv)	In case licensee is a Company/Partnership firm/Cooperative Society, then indicate- (a) Name of Director-in-Charge/Managing Director/Managing Partner: (b) Postal address with pin code: (c) Telephone Number (Office): (d) Fax number (Office): (e) Mobile No.: (f) Telephone Number (Residence): (g) E-Mail id:
B	(i)	Date of issue of order for grant or issue of letter of intent for PL/PLcum ML [see rule 5(9) of M(OAHCEM)C Rules, 2016/ Rule 18 of Mineral Auction Rules, 2015]:
	(ii)	Date of execution PL / registration of PL-cum-ML:
	(iii)	Period of licence- (a) Years: (b) From _____ To _____
	(iv)	In case of renewal of licence indicate- (a) Date of renewal: (b) Years: (c) Period From _____ To _____
	(v)	Area of the PL/PL cum ML (in Hectare): (a) Forest: (b) Non Forest Government land: (c) Non Forest Private land: (d) Total:
	(vi)	Survey of India Toposheet number (s):
	(vii)	Geographical co-ordinates (latitude & longitude in Deg. Min. Sec format in WGS 84 system) of all the boundary corner points of the area granted (preferably geo-referenced): (As per Annexure-I)
	(viii)	(a) District(s) of the area:

		(b) Taluka(s) of the area: (c) Village(s) of the area:
	(ix)	In case of forest land, give the following details- (a) Forest Division, Block and Range/Compartment No(s): (b) Legal status of the forest (namely reserved, protected, unclassified etc): (c) Whether the area forms part of a national park or wild life sanctuary: (d) Distance of the area from the wild life sanctuary, National Park: (e) Enclose forest map with PL/PL cum ML area demarcated: (f) Specific permission from the forest department for carrying out exploration obtained: Yes/No If yes- (i) Date and number of the permission letter: (ii) Details of the activities for which permission granted:
	(x)	Cadastral details (To be attached separately as Annexure-II to the report giving individual Khasra/Cadastral No., village, district, name of owner, type of land, area for each land parcel)
C		Details of the technical personnel (Geologist and /or Mining Engineer) Employed (The information to be given separately for each employee- (a) Name: (b) Designation: (c) Qualification: (d) Name of University: (e) Year of passing: (f) Experience: (g) Period of employment: (h) From _____ to _____ (i) Number and date of notice under Rule 46 of MCDR, 2017 submitted to IBM :
2		Infrastructure and Environment (Up to five km. radius from the peripheral boundary of PL/ PL-cum-ML area)
	(i)	Accessibility to the area from the nearest town/district headquarters:
	(ii)	Road, Railway, Port Facility, Electricity availability, Water availability for industry in the area and/or in the vicinity :
	(iii)	Roads, railway track passing through the area or nearby:
	(iv)	Land use pattern of the area:
	(v)	Electric transmission line, telephone line etc. passing through the area or nearby:
	(vi)	Host population (local tribes), Human settlements within and nearby the area:
	(vii)	Socio Demographic profile of the area and nearby areas:
	(viii)	Historical sites and archaeological monuments, places of worship etc. within or near by the area:
	(ix)	Forests, sanctuaries, National Park and Wild Life sanctuaries within or near by the area with distance from periphery of the PL/ PL-cum-ML area :
	(x)	Flora and Fauna within and nearby the area:
	(xi)	Water bodies such as river, nala, stream, reservoir etc. within or near

		by the area:					
	(xii)	Ground Water Regime & Depth of water table before and after rainy season. Quality of Ground Water:					
	(xiii)	Climate (a) Temperature (annual) min _____ max _____ Avg _____ (four seasons) (b) Rain fall (annual) min _____ max _____ Avg _____ (c) Humidity (annual) min _____ max _____ Avg _____ (d) Prevailing Wind direction (four seasons) :					
	(xiv)	Any other environmental factor having potential to affect the viability of the project and assessment of resources and reserves:					
3		Geology					
	(i)	Physiography/Topography detailing relief of the area, highest and lowest RL, drainage pattern etc.					
	(ii)	Regional Geological set up: Brief regional geology of the area outlining the broad geological and structural frame work with regional stratigraphy of the area					
	(iii)	(a) Local geological setting detailing the common rock types and details of old workings, surface exposures etc. of the area under study. Information regarding Gossan & Oxidation Zones and its horizontal & vertical extent if noticed in the exploration area: (b) Structural details of the area such as dip, strike, folds, faults etc.: (c) The extent and variability of the mineralization expressed as length (along strike or otherwise), plan width, and vertical extent indicating the upper and lower limits of the Mineralisation: (d) Details of associated minerals, by-products (particularly in case of base metal deposits): (d) Type of deposit to which the mineral deposit may be classified as per MEMC Rules, 2015					
4		Previous exploration Work					
	(i)	Name and address of prospecting agency/ permit holder/ licensee involved in the exploration of the area with year and period of exploration (if more than one agency is involved details of each agency may be given separately):					
	(ii)	Brief details of the exploration carried out (to be given separately for each agency):					
	(iii)	Reserves/ resources estimated if any during the previous exploration campaign with quantity and grade (category wise):					
5		Exploration carried out v/s Proposals in the scheme of Prospecting					
A			Proposals in scheme	Achievement			
				1st year	2nd year	3rd year	Total
	(i)	Aerial Reconnaissance-					
(ii)	Toographical survey & Geological mapping- (a) Scale:						

	(b) Area covered:						
	(iii)	Geophysical survey/prospecting					
	(iv)	Geochemical survey					
	(v)	Pitting- (i) No. of pits (ii) dimensions (in m) (iii) quantum of excavation (in m ³)					
	(vi)	Trenching – (i) No. of trenches (ii) dimensions (in m) (iii) quantum of excavation (in m ³)					
	(vii)	Drilling (a) Type of drilling (b) No of bore holes (c) Grid spacing (d) Meterage (e) Geophysical logging					
	(viii)	Exploratory Mining (a) Open cast excavation(m ³) (b) UG Adit (m) (c) UG Incline (m) (d) Shaft (m)					
	(ix)	No of samples drawn for chemical analysis (a) Grab/channel/ chip/groove samples (b) Borehole samples					
	(x)	Number of samples for petrological/ mineralogical studies					
	(xi)	No of samples for bulk density studies					
	(xii)	No of samples for Beneficiation study with quantity					

B	Scope for further exploration of the area(both laterally and vertically) based on exploration carried out so far:
C	Description of drilling technique& drill sampling method employed:
D	Description of sub-sampling techniques and sample preparation method:
E	Description of quality of assay data and laboratory tests:
F	Description of method adopted for determination of Moisture content in the ore/ mineral:
G	Description of method of bulk Density test done, if any:
H	Description on the adequacy of exploration done for estimation of resources under various categories:
I	Description of the method adopted for estimation of resources:
J	a) Grade wise estimation of resources under G1, G2 and G3, G4 categories as per Minerals (Evidence of Mineral Contents) Rules,2015
6	Prefeasibility/Feasibility report as per Minerals (Evidence of Mineral Contents) Rules,2015 (Applicable in case licensee intends to apply for ML)
A	Cut off Parameters considered for assessment of reserves:
B	Description of the various mining factors considered:
C	Description of the metallurgical factors or assumptions:
D	Description of cost and revenue factors:
E	Description of the market assessment factors considered:
F	Description of other modifying factors considered (specify environmental / statutory / legal /governmental factors etc.) that may have a bearing on assessment of reserves:
G	Grade wise estimation of Reserves/ Resources as per Minerals (Evidence of Mineral Contents) Rules,2015 based on the above modifying factors:
7	Expenditure incurred on prospecting Year wise and Total:
8	List of Documents to be submitted as Annexures
	(i) Copy of Letter of grant of PL / PL-cum-ML
	(ii) Copy of letter of renewal of the PL/PL- cum -ML
	(iii) Copy of PL deed
	(iv) Copy of Forest permission letter, if applicable
	(v) Information on Geographical co-ordinates as per Annexure- I (in soft copy only)
	(vi) Cadastral details -Annexure-II
	(vii) Copy of Old exploration report if any
	(viii) Details of topographic survey as per Annexure-III(in soft copy only)
	(ix) Copy of all the Borehole logs alongwith chemical analysis as per Annexer-IV (in soft copy only)
	(x) Chemical Analysis reports of Grab/channel/chip/groove samples etc
	(xi) All the relevant information data such as geophysical data
	(xii) Item wise/ year-wise expenditure statement for the exploration & prospecting activities undertaken
	(xiii) Copy of Bulk density study report
	(xiv) Copy of Mineralogical/ Petrological tests study report, if any.
	(xv) Copy of Beneficiation study report/ recovery % study report, if any
9	List of Plates/ Maps to be enclosed with the Report (All the plates/maps are to be signed with date for its correctness by the Geologist / Mining Engineer in charge)
	(i) Key plan (1:50,000)

(ii)	Cadastral Plan (1:4000)
(iii)	Surface Plan (1:2000)
(iv)	Surface Geological Plan (1:2000)
(v)	Geological Cross sections used for calculation of reserves/resources
(vi)	Environment plan (1:5,000)

Place
Date

Signature
Name of Geologist/ Mining Engineer
Designation

Annexure-I

Coordinates of the boundary pillars of PL area in WGS84 **(to be submitted in excel file only)**

Boundary pillars serial number	Latitudes in DMS			Longitude in DMS			Toposheet No.
	Degree	Minutes	Seconds (upto two decimal points)	Degree	Minutes	Seconds (upto two decimal points)	
1	2	3	4	5	6	7	8

Annexure-II

CADASTRAL DETAILS (to be submitted in excel file only)

Sl. No.	District	Village	Khasara No.	Type of Land	Area of each land parcel in hecets.	Name of Owner	Remarks, if any

Annexure-III

Information on Topographic Survey data (to be submitted in excel or CSV format)

(Co-ordinates data required in WGS84)

Survey file for topography

Point No.	Latitude	Longitude	Altitude	Description	Date of Survey

Annexure-IV

**Information on exploration data (to be submitted in excel or CSV format)
(Co-ordinates data required in WGS84)**

Geological Database

(Five separate excel or csv files viz. Collar file, Survey file, Assay file, geology file, RQD file required to be submitted)

**Hole ID should tally with the surface geological plan.*

(I) Collar file

Hole_id*	Latitude	Longitude	Altitude	Max_depth	Hole_path (linear/ angular)	Date of drilling

(II) Survey file for drill holes

Hole_id	Depth	Dip	Azimuth

(III) Assay file

			radicals analysed				
			(specify name of radical as an example given below)				
Hole_id	Depth_ from	Depth_ to	Fe	SiO2	Al2O3	LOI	P

(IV) Geology file

Hole_id	Depth_from	Depth_to	Litholoical Description

(V) Rock Quality Designation (RQD) File

Hole_id	Depth_ from	Depth_to	RQD%