

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 and 72 of MCDR, 2017)

1	Particulars of the prospecting licence / prospecting operations undertaken by agency under second proviso to Section 4(1) of the MMDR Act, 1957 (hereinafter referred as the Act).	
A	(i)	Type of mineral concession (tick mark whichever is applicable) (a) Prospecting Licence (PL) (b) Prospecting operations undertaken by agency under second proviso to Section 4(1) of the Act.
	(ii)	Name of mineral(s) for which PL is granted / prospecting agency under second proviso to Section 4(1) of the Act:
	(iii)	Name of the licensee / prospecting agency under second proviso to Section 4(1) of the Act: (a) Postal address with Pincode: (b) Telephone number (Office): (c) Fax number (Office): (d) Mobile number: (e) Telephone number (Residence): (f) E-Mail id:
	(iv)	In case licensee / prospecting agency under second proviso to Section 4(1) of the Act, is a Company/Joint Venture with the State Government, then indicate (a) Name of Director-in-Charge/Managing Director/Managing Partner: (b) Postal address with Pincode: (c) Telephone number (Office): (d) Fax number (Office): (e) Mobile number: (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 / notification to undertake prospecting operations by agencies under second proviso to Section 4(1) of the Act [see rule 4 of AMCR, 2016]:
	(ii)	Date of execution of PL / registration of PL / commencement of prospecting operations by the agencies under second proviso to Section 4(1) of the Act:
	(iii)	Period of licence / notification issued by the State Government to undertake prospecting operations by agencies under second proviso to Section 4(1) of the Act: (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 PL / prospecting operations undertaken by agency under second proviso to Section 4(1) of the Act. (Ha/sq km): (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 and longitude in Deg. Min. Sec format in WGS 84 system) of all the boundary corner points of the area granted: (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 / prospected area demarcated: (f) Specific permission from the Forest Department for carrying out exploration obtained: Yes/No (g) 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	(i)	Details of the technical personnel (Geologist and /or Mining Engineer) employed (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(s) of appointment submitted to AMD as per Rule 46 of MCDR, 2017:
2		Infrastructure and Environment (Up to five km radius from the boundary of PL / prospected 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 near 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 the area:
(ix)	Forests, Sanctuaries, National Park and Wild Life Sanctuaries within or near the area with distance from periphery of the PL / prospected area:
(x)	Flora and fauna within and near the area:
(xi)	Water bodies such as river, nala, stream, reservoir etc. within or near the area
(xii)	Groundwater regime and depth of water table before and after rainy season, quality of ground water:
(xiii)	Climate (annual data): (a) Temperature : min _____ max _____ Avg. _____ (b) Rain fall : min _____ max _____ Avg. _____ (c) Humidity : min _____ max _____ Avg. _____ (d) Prevailing wind direction :
(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 setup: Brief regional geology of the area outlining the broad geological and structural framework 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 and vertical extent, if noticed in the exploration area: (b) Structural details of the area such as dip, strike, folds, faults, etc. : (c) 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 mineralization: (d) Details of associated minerals, by-products (particularly in association with base metals): (e) Type of deposit as per Schedule B of AMCR, 2016
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 vs. proposals in the Scheme of Prospecting					
Particulars			Proposals in Scheme	Achievement			
				1 st year	2 nd year	3 rd year	Total
A	(i)	Aerial Reconnaissance					
	(ii)	Topographical survey and geological mapping (a) Scale: (b) Area covered:					
	(iii)	Geophysical survey					
	(iv)	Geochemical survey					
	(v)	Pitting (a) No. of pits (b) Dimensions (m) (c) Quantum of excavation (m ³)					
	(vi)	Trenching (a) No. of trenches (b) Dimensions (m) (c) Quantum of excavation (m ³)					
	(vii)	Drilling (a) Type of drilling (Core/non-core/Dormer/Sonic- inclined/ vertical) (b) No. of boreholes : (c) Grid (m x m) : (d) Meterage : (e) Litho / geophysical logging, if any:					
	(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 (BD) / specific gravity (SG) studies (specify BD / SG value)					

(xii)	No. of samples for beneficiation study with quantity (feed size, assay of ROM, ore mineralogy, assay of solid and liquid effluents, recovery of associated metals and minerals, etc.):					
B	Scope for further exploration in the area (both laterally and vertically) based on exploration carried out so far:					
C	Description of drilling technique and 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 / specific gravity 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	Grade wise estimation of resources under different categories as per Schedule-B of AMCR, 2016					
6	Prefeasibility/Feasibility report as per Schedule-B of AMCR, 2016 (Applicable in case licensee intends to apply for ML)					
A	Cut off parameters considered for assessment of reserves/resources:					
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 Schedule-B of AMCR, 2016 based on the above modifying factors:					
7	Expenditure incurred on prospecting (Year-wise and total):					
8	List of Documents to be submitted as Annexure					
(i)	Copy of Letter of grant of PL / Notification for prospecting					
(ii)	Copy of letter of renewal of the PL / Notification for prospecting					
(iii)	Copy of PL deed, if applicable					
(iv)	Copy of Forest permission letter, if applicable					
(v)	Information on geographical co-ordinates as per Annexure I (hard copy as well as soft copy)					
(vi)	Cadastral details – Annexure II					
(vii)	Copy of old exploration report, if any					
(viii)	Details of topographic survey as per Annexure III (hard copy as well as soft copy)					
(ix)	Copy of all the borehole logs along with chemical analysis as per Annexure IV (hard copy as well as soft copy)					
(x)	Chemical analysis reports of grab/channel/chip/groove samples, etc.					

(xi)	All the relevant information / data such as geophysical data etc.
(xii)	Item wise/ year-wise expenditure statement for the prospecting activities undertaken
(xiii)	Copy of bulk density / specific gravity 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
(i)	Key plan (1:50,000)
(ii)	Cadastral Plan
(iii)	Surface Plan (as per scale defined in Part-II, Schedule-B of AMCR, 2016)
(iv)	Surface geological Plan (as per scale defined in Part-II, Schedule-B of AMCR, 2016)
(v)	Geological cross sections and longitudinal sections used for calculation of reserves/ resources (as per scale defined in Part-II, Schedule-B of AMCR, 2016)
(vi)	Environmental Plan (1: 5,000)

Note: All pages of documents to be signed with date by the geologist / mining engineer preparing the report

Place
Date

Signature
Name of Geologist / Mining Engineer
Designation

Annexure I**Coordinates of PL area in WGS84 system (Both hard copy and soft copy in MS Excel)**

Corner points of PL boundary	Latitude	Longitude	UTM-X	UTM-Y	Toposheet No.
	DDMMSS	DDMMSS			

Annexure II**Cadastral details (Both hard copy and soft copy in MS Excel)**

Sl. No.	District	Village	Khasra No.	Type of Land	Area of each land parcel in Ha	Name of owner	Remarks, if any

Annexure III
Information on Topographic Survey data (Both hard copy and soft copy in MS Excel)
(Co-ordinates data required in WGS84 system)
Survey file for topography

Point No.	Latitude	Longitude	UTM-X	UTM-Y	Altitude	Description	Date of Survey
	DDMMSS	DDMMSS					

Annexure IV

Information on exploration data (Both hard copy and soft copy in MS Excel) (Co-ordinates data required in WGS84 system)

Geological Database

(Five separate excel or csv files viz. Borehole data, Borehole deviation survey data, Geological data, Analytical data and RQD Index required to be submitted)

(I) Borehole Data

Borehole _ID*	Latitude	Longitude	UTM- X	UTM- Y	RL	Direction / Inclination	Drilled depth	Date of commencement / completion
	DDMMSS	DDMMSS						

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

(II) Borehole Deviation Survey Data

Borehole_ID	Depth	Angle	Azimuth

(III) Geological Data

Borehole_ID	Depth _ from	Depth _ to	Lithological and structural description

(IV) Analytical Data

10. Analytical Data										
Borehole_ID	Sample No.	Depth_ from	Depth_ to	Analytical results of elements and/or minerals						
				1	2	3	4	5	6	Contd.

(V) Rock Quality Designation (RQD) Index

Borehole_ID	Depth _ from	Depth _ to	RQD%