

**GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES**

**SCHEDULE OF CHARGES FOR THE
MINERAL PROCESSING DIVISION
WITH EFFECT FROM 21.03.2022**

Sl.No.	Item of Work	Charges (₹)
A.	LABORATORY SCALE ORE DRESSING INVESTIGATIONS:	
I	Full Scale Laboratory Investigations (Involving Physical, Chemical and Mineralogical characterization) (Per Sample).	
1.	Complete Laboratory Scale Ore Dressing investigation involving studies for recovery of one mineral by various physical beneficiation methods	3,00,000
2.	Complete Laboratory Scale studies for recovery of Gold or Silver or Pre-Concentrate of PGE including Fire Assay analysis	4,00,000
3.	Complete Laboratory Scale Ore Dressing investigation involving studies for recovery of two or more minerals by various physical beneficiation methods	5,00,000
II	Amenability Tests Involving Single Beneficiation Technique (including Sample Preparation, Chemical Analysis and Mineralogy) (per sample)	
1.	Flotation	2,25,000
2.	Gravity Separation (Jigging, Tabling, Heavy Media Separation, Spiraling etc.)	2,00,000
3.	Magnetic Separation	2,10,000
4.	Deflocculation and bleaching studies (with PSA, Brightness, Chemical Analysis)	2,00,000
5.	Thickening / Filtration Studies	2,00,000
6.	Air Classification /Wet Classification	2,00,000
7.	Electrostatic Separation	2,10,000

Sl.No.	Item of Work	Charges (₹)
III	Single Ore Dressing Unit Operation Studies (Per Sample)	
1.	Bond's Work Index Determination (Ball / Rod Mill)	50,000
2.	Grindability Index Determination	30,000
3.	Cyclosizing	30,000
4.	Attrition Scrubbing followed by Sizing including Chemical analysis and Mineralogy	35,000
5.	Tumbler Index Determination	30,000
6.	Shatter Index Determination	30,000
7.	Screening including Chemical & Mineralogy (Per Test)	25,000
8.	Particle Size Analysis (Sub micron sizes) (Per Test)	9,000
9.	Brightness Measurement	2,000
10.	Surface Area by BET Technique per sample (Minimum 10 samples)	6,000
B	PILOT PLANT SCALE INVESTIGATIONS:	
I	Complete Pilot Plant Investigation (Quantity of ore will be specified by IBM depending on the complexity of the sample)	
a.	Studies for recovery of one mineral	5,00,000
b.	Studies for recovery of two or more minerals	7,00,000
II	Pilot Plant Test comprising of a Single Ore Dressing Unit Operation including Chemical and Mineralogical analysis (Quantity of Ore will be specified by IBM)	
1.	Gravity Separation viz. Heavy Media Separation, Jigging, Tabling with Classification, Spiralling, Bowl Concentration, GEC Duplex Table, Centrifugal Separator, Floatex Density Separator etc.	2,65,000
2.	Magnetic Separation	2,65,000
3.	Column Floatation	4,00,000
4.	Scrubbing and Classification	2,65,000
5.	Classification / Hydrocycloning	2,65,000
6.	Crushing and Screening	2,00,000
7.	Pelletisation Studies/ Sintering Studies	4,00,000
III	Techno-Economic Pre-Feasibility Studies on the basis of available Laboratory and Pilot Plant Report (for selection of equipment and operating costs)	5,00,000
NOTE:		
1.	The above charges do not include cost of production of concentrate for end use testing.	
2.	The charges for samples other than Indian origin for Companies which are directly involved in consultancy jobs in mining and exploration are to be levied Twice the charges.	
3.	The GST and any other Taxes Extra (as applicable).	

Sl.No.	Item of Work	Charges (₹)
C.	SCHEDULE OF CHARGES FOR CHEMICAL ANALYSIS:	
1.	Quantitative chemical analysis of radicals by Classical Wet Analysis method	1,200/- for the first radical and 800/- for each of the subsequent radical.
2.	Elemental Analysis using instruments viz. XRF, AAS, ICPA, Ion Chromatograph, Mercury Analyser, Flame Photo Meter, Isotope Analyser, UV / VIS Spectrometer, C & S Analyser etc.	800/- for the first radical and 400/- for each of the subsequent radical.
3.	XRF Scanning per sample	1,500/-
4.	Determination of Volatile Matter / Ash / Moisture	300/- for each radical
5.	Platinum Group of Minerals (PGM) Analysis by Fire Assay including ICP analysis (Per Sample).	5000/- for the first radical and 500/- for subsequent radicals.
6. (A)	Estimation of Gold or Silver by Fire Assay and AAS	3,000/-
(B)	Estimation of both Gold and Silver by Fire Assay and AAS	4,000/-
7.	Sample preparation upto 500 gm including crushing, grinding and drawing 25 gm representative sample of minus 300# size for Chemical Analysis	230/- per sample
8.	Environmental Analysis	Standard cost as proposed by Central Pollution Control Board.
NOTE:		
1.	The charges for samples other than Indian origin for Companies which are directly involved in consultancy jobs in mining and exploration are to be levied Twice the charges.	
2.	GST & any other taxes extra (as applicable).	

Sl.No.	Item of Work	Charges (₹)
D	SCHEDULE OF CHARGES FOR MINERALOGICAL STUDIES:	
1.	Detailed mineralogical studies for identification and quantitative estimation of minerals.	6,000
2.	*Amenability to mineral beneficiation including size analysis, liberation characteristics and necessary chemical analysis.	20,000
3.	Electron Probe Micro Analyser (EPMA) studies (Per Hour Per Sample)	8,000
4.	X-Ray Diffraction (XRD) studies (Per Sample).	5,000
5.	Thermal Gravimetric-Differential Thermal Analysis (TG-DTA) studies (Per Sample).	5,000
	Photomicrographs (Four images)	2,000
6.	Determination of Specific Gravity by Walker Steel Yard Balance)	700
7.	Determination of Hardness by Mohs Scale	500
NOTE:		
1.	The charges for samples other than Indian origin for Companies which are directly involved in consultancy jobs in mining and exploration are to be levied twice the charges.	
2.	GST & any other taxes extra (as applicable).	

*The investigation will be considered as one limited ore dressing investigation

**SCHEDULE OF CHARGES FOR CONSULTANCY SERVICES
PER DAY RENDERED BY OFFICERS OF
MINERAL PROCESSING DIVISION, INDIAN BUREAU OF MINES**

Sl.No.	Item of Work	Consultancy Charges (₹)
1.	Group 'A' Category'	5,900
2.	Group 'B' Category'	4,600
3.	Group 'C' Category'	3,100
NOTE:		
1.	Actual travel expenses (to and fro) of the officers including hotel accommodation as per their entitlement is to be borne by the client.	
2.	If the client prefers, the technical personnel may be allowed to travel by higher class even if they are not allowed under the Govt. rules	
3.	The daily rates are payable for the total period of absence from the head quarter inclusive of the period of journey.	
4.	The following job will be carried out under consultancy services and the charges will be calculated based on the quantum of work, actual man-power involved in the job and man-days. ➤ Plant Auditing studies of a mineral processing plant.	
5.	GST & any other taxes extra (as applicable).	