

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

**SCHEDULE OF CHARGES OF VARIOUS CONSULTANCY WORK BY INDIAN BUREAU OF MINES  
WITH EFFECT FROM 18.08.2023#**

**SCHEDULE OF CHARGES FOR MINERAL PROCESSING DIVISION**

<b>Sl. No.</b>	<b>Item of work</b>	<b>Charges (₹)</b>	<b>Charges (₹) with GST@18%</b>	<b>Charges (₹) Rounded off.</b>
<b>A.</b>	<b>LABORATORY SCALE MINERAL PROCESSING INVESTIGATIONS:</b>			
<b>I</b>	<b>Full Scale Laboratory Investigations (Involving Physical, Chemical and Mineralogical characterization) (Per Sample)</b>			
1.	Complete Laboratory Scale Mineral Processing investigation involving studies for recovery of one mineral by various physical beneficiation methods	3,96,000/-	4,67,280/-	4,67,300/-
2.	Complete Laboratory Scale studies for recovery of Gold or Silver or Pre- Concentrate of PGE including Fire Assay analysis	5,28,000/-	6,23,040/-	6,23,000/-
3.	Complete Laboratory Scale Mineral Processing investigation involving studies for recovery of two or more minerals by various physical beneficiation methods	6,60,000/-	7,78,800/-	7,78,800/-
<b>II</b>	<b>Amenability Tests Involving Single Beneficiation Technique (including Sample Preparation, Chemical Analysis and Mineralogy) (per sample)</b>			
1.	Flotation	2,97,000/-	3,50,460/-	3,50,500/-
2.	Gravity Separation (Jigging, Tabling, Heavy Media Separation, etc.)	2,64,000/-	3,11,520/-	3,11,500/-
3.	Magnetic Separation	2,77,200/-	3,27,096/-	3,27,100/-
4.	Deflocculation and bleaching studies (with PSA, Brightness, Chemical Analysis)	2,64,000/-	3,11,520/-	3,11,500/-
5.	Thickening / Filtration Studies	2,64,000/-	3,11,520/-	3,11,500/-
6.	Air Classification /Wet Classification	2,64,000/-	3,11,520/-	3,11,500/-
7.	Electrostatic Separation	2,77,200/-	3,27,096/-	3,27,100/-

<b>III</b>	<b>Single Mineral Processing Unit Operation Studies (Per Sample)</b>			
1.	Bond's Work Index Determination (Ball / Rod Mill)	66,000/-	78,880/-	78,900/-
2.	Grindability Index Determination	39,600/-	46,728/-	46,700/-
3.	Cyclosizing	39,600/-	46,728/-	46,700/-
4.	Attrition Scrubbing followed by Sizing including Chemical analysis and Mineralogy	46,200/-	54,516/-	54,500/-
5.	Tumbler Index Determination	39,600/-	46,728/-	46,700/-
6.	Shatter Index Determination	39,600/-	46,728/-	46,700/-
7.	Screening including Chemical & Mineralogy (Per Test)	33,000/-	38,940/-	38,900/-
8.	Particle Size Analysis (Sub-micron sizes) (Per Test)	11,880/-	14,018/-	14,000/-
9.	Brightness Measurement	2,640/-	3,115/-	3,100/-
10.	Surface Area by BET Technique per sample (Minimum 10 samples)	7,920/-	9,346/-	9,300/-
<b>B.</b>	<b>PILOT PLANT SCALE INVESTIGATIONS:</b>			
<b>I</b>	<b>Complete Pilot Plant Investigations (Quantity of ore will be specified by IBM depending on the complexity of the sample)</b>			
a.	Studies for recovery of one mineral	6,60,000/-	7,78,800/-	7,78,800/-
b.	Studies for recovery of two or more minerals	9,24,000/-	10,90,320/-	10,90,300/-
<b>II</b>	<b>Pilot Plant Test comprising of a Single Mineral Processing Unit Operation including Chemical and Mineralogical analysis (Quantity of Ore will be specified by IBM)</b>			
1.	Gravity Separation viz. Heavy Media Separation, Jigging, Tabling with Classification, Spiraling, Bowl Concentration, GEC Duplex Table, Centrifugal Separator, Floatex Density Separator etc.	3,49,800/-	4,12,764/-	4,12,700/-
2.	Magnetic Separation	3,49,800/-	4,12,764/-	4,12,800/-
3.	Column Flootation	5,28,000/-	6,23,040/-	6,23,000/-
4.	Scrubbing and Classification	3,49,800/-	4,12,764/-	4,12,800/-
5.	Classification / Hydrocycloning	3,49,800/-	4,12,764/-	4,12,800/-
6.	Crushing and Screening	2,64,000/-	3,11,520/-	3,11,500/-
7.	Palletization Studies/ Sintering Studies	5,28,000/-	6,23,040/-	6,23,000/-

<b>III</b>	Techno-Economic Pre-Feasibility Studies on the basis of available Laboratory and Pilot Plant Report (for selection of equipment and operating costs)	6,60,000/-	7,78,800/-	7,78,800/-
<b>NOTE:</b>				
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 are to be levied twice the charges.			

Sl. No.	Item of Work	Charges (₹)	Charges(₹) with GST@18%	Charges (₹) Rounded off.
<b>C. SCHEDULE OF CHARGES FOR CHEMICAL ANALYSIS:</b>				
1.	Quantitative chemical analysis of radicals by Classical Wet Analysis method	1,580/- for first radical and 1,056/- for subsequent radical	1,864/- for the first radical and 1,246/- for each of the subsequent radical	1,900/- for the first radical and 1,300/- for each of the subsequent radical
2.	Elemental Analysis using instruments viz. XRF, AAS, ICPA, Ion Chromatograph, Mercury Analyzer, Flame Photo Meter, Isotope Analyzer, UV / VIS Spectrometer, C & S Analyzer etc.	1,056/- for first radical and 472/- for subsequent radical	1,246/- for first radical and 623/- for subsequent radical	1,300/- for first radical and 600/- for subsequent radical
3.	XRF Scanning per sample	1,980/-	2,336/-	2,400/-
4.	Determination of Volatile Matter /Ash/Moisture	396/- for each radical	467/- for each radical	500/- for each radical
5.	Platinum Group of Minerals (PGM) Analysis by Fire Assay including ICP analysis (Per Sample).	6,600/- for first radical and 660/- for subsequent radical	7,788/- for first radical and 779/- for subsequent radical	7,800/- for first radical and 800/- for subsequent radical
6	(A) Estimation of Gold or Silver by Fire Assay and AAS	3,960/-	4,673/-	4700/-
	(B) Estimation of both Gold and Silver by Fire Assay and AAS	5,280/-	6,230/-	6200/-
7.	Sample preparation up-to 500 gm including crushing, grinding and drawing 25 gm representative sample of minus 300# size for Chemical Analysis	304/- per sample	359/- per sample	400/- per sample
8.	Environmental Analysis	Standard cost as proposed by Central Pollution Control Board	Standard cost as proposed by Central Pollution Control Board	Standard cost as proposed by Central Pollution Control Board

<b>NOTE:</b>	
1.	The charges for samples other than Indian origin for Companies which are directly involved in consultancy jobs are to be levied twice the charges.

Sl. No.	Item of Work	Charges (₹)	Charges(₹) with GST@18%	Charges (₹) Rounded off.
<b>D.</b>	<b>SCHEDULE OF CHARGES FOR MINERALOGICAL STUDIES:</b>			
1.	Detailed mineralogical studies for identification and quantitative estimation of minerals (per sample)	7,920/-	9,346/-	9400/-
2.	*Amenability to mineral beneficiation including size analysis, liberation characteristics and necessary chemical analysis (per sample)	26,400/-	31,152/-	31,200/-
3.	Electron Probe Micro Analyzer (EPMA) studies (Per hour per sample)	10,560/-	12,461/-	12,500/-
4.	X-Ray Diffraction (XRD) studies (Per Sample).	6,600/-	7,788/-	7,800/-
5.	Thermal Gravimetric- Differential Thermal Analysis (TG-DTA) studies (Per Sample).	6,600/-	7,788/-	7,800/-
6.	Photomicrographs (Four images)	2,640/-	3,115/-	3,100/-
7.	Determination of Specific Gravity by Walker Steel Yard Balance (per sample)	924/-	1,090/-	1100/-
8.	Determination of Hardness by Mohs Scale (per sample)	660/-	779/-	800/-

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

<b>NOTE:</b>	
1.	The charges for samples other than Indian origin for Companies which are directly involved in consultancy jobs are to be levied twice the charges.

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

Sl. No.	Item of Work	Charges (₹)	Charges(₹) with GST@18%	Charges (₹) Rounded off.
1.	Group 'A' Category'	7900/-	9,322/-	9,300/-
2.	Group 'B' Category'	6100/-	7,198/-	7,200/-
3.	Group 'C' Category'	4100/-	4,838/-	4,800/-
i.	Actual travel expenses (to and fro) of the officers including hotel accommodation as per their entitlement are to be borne by the client.			
ii.	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			
iii.	The daily rates are payable for the total period of absence from the head quarter inclusive of the period of journey.			
iv.	Plant Auditing/In-plant studies of mineral processing plant 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.			

# 5% annual escalation of charges to be levied every year from 1.04.2024 onward for all item of work.