

**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 01.04.2024#**

**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          | 4,15,800/-         | 4,90,644/-                      | 4,90,600/-                      |
| 2.             | Complete Laboratory Scale studies for recovery of Gold or Silver or Pre- Concentrate of PGE including Fire Assay analysis                                   | 5,54,400/-         | 6,54,192/-                      | 6,54,200/-                      |
| 3.             | Complete Laboratory Scale Mineral Processing investigation involving studies for recovery of two or more minerals by various physical beneficiation methods | 6,93,000/-         | 8,17,740/-                      | 8,17,700/-                      |
| <b>II</b>      | <b>Amenability Tests Involving Single Beneficiation Technique (including Sample Preparation, Chemical Analysis and Mineralogy) (per sample)</b>             |                    |                                 |                                 |
| 1.             | Flotation   | 3,11,850/-         | 3,67,983/-                      | 3,68,000/-                      |
| 2.             | Gravity Separation (Jigging, Tabling, Heavy Media Separation, etc.)   | 2,77,200/-         | 3,27,096/-                      | 3,27,100/-                      |
| 3.             | Magnetic Separation   | 2,91,060/-         | 3,43,450/-                      | 3,43,500/-                      |
| 4.             | Deflocculation and bleaching studies (with PSA, Brightness, Chemical Analysis)  | 2,77,200/-         | 3,27,096/-                      | 3,27,100/-                      |
| 5.             | Thickening / Filtration Studies   | 2,77,200/-         | 3,27,096/-                      | 3,27,100/-                      |
| 6.             | Air Classification /Wet Classification  | 2,77,200/-         | 3,27,096/-                      | 3,27,100/-                      |
| 7.             | Electrostatic Separation  | 2,91,060/-         | 3,43,450/-                      | 3,43,500/-                      |

| <b>III</b> | <b>Single Mineral Processing Unit Operation Studies (Per Sample)</b>   |            |             |             |
|------------|--|------------|-------------|-------------|
| 1.         | Bond's Work Index Determination (Ball / Rod Mill)  | 69,300/-   | 81,774/-    | 81,800/-    |
| 2.         | Grindability Index Determination   | 41,580/-   | 49,064/-    | 49,000/-    |
| 3.         | Cyclosizing  | 41,580/-   | 49,064/-    | 49,000/-    |
| 4.         | Attrition Scrubbing followed by Sizing including Chemical analysis and Mineralogy  | 48,510/-   | 57,241/-    | 57,200/-    |
| 5.         | Tumbler Index Determination  | 41,580/-   | 49,064/-    | 49,000/-    |
| 6.         | Shatter Index Determination  | 41,580/-   | 49,064/-    | 49,000/-    |
| 7.         | Screening including Chemical & Mineralogy (Per Test)   | 34,650/-   | 40,887/-    | 40,900/-    |
| 8.         | Particle Size Analysis (Sub-micron sizes) (Per Test)   | 12,470/-   | 14,714/-    | 14,700/-    |
| 9.         | Brightness Measurement   | 2,772/-    | 3,270/-     | 3,300/-     |
| 10.        | Surface Area by BET Technique per sample (Minimum 10 samples)  | 8,316/-    | 9,812/-     | 9,800/-     |
| <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  | 6,93,000/- | 8,17,740/-  | 8,17,700/-  |
| b.         | Studies for recovery of two or more minerals   | 9,70,200/- | 11,44,836/- | 11,44,800/- |
| <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. | 3,67,290/- | 4,33,402/-  | 4,33,400/-  |
| 2.         | Magnetic Separation  | 3,67,290/- | 4,33,402/-  | 4,33,400/-  |
| 3.         | Column Floatation  | 5,54,400/- | 6,54,192/-  | 6,54,200/-  |
| 4.         | Scrubbing and Classification   | 3,67,290/- | 4,33,402/-  | 4,33,400/-  |
| 5.         | Classification / Hydrocycloning  | 3,67,290/- | 4,33,402/-  | 4,33,400/-  |
| 6.         | Crushing and Screening   | 2,77,200/- | 3,27,096/-  | 3,27,100/-  |
| 7.         | Palletization Studies/ Sintering Studies   | 5,54,400/- | 6,54,192/-  | 6,54,200/-  |

|              |  |            |            |            |
|--------------|--|------------|------------|------------|
| <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) | 6,93,000/- | 8,17,740/- | 8,17,700/- |
| <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  | 1,659/- for first radical and 1,108/- for subsequent radical | 1957/- for the first radical and 1,307/- for each of the subsequent radical | 2000/- 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. | 1,108/- for first radical and 495/- for subsequent radical   | 1,307/-for first radical and 584/- for subsequent radical                   | 1,300/- for first radical and 600/- for subsequent radical                  |
| 3.   | XRF Scanning per sample  | 2,079/-  | 2,453/-   | 2,500/-   |
| 4.   | Determination of Volatile Matter /Ash/Moisture   | 415.8/- for each radical                                     | 509/- for each radical  | 500/- for each radical  |
| 5.   | Platinum Group of Minerals (PGM) Analysis by Fire Assay including ICP analysis (Per Sample).   | 6,930/- for first radical and 693/- for subsequent radical   | 8,177/- for first radical and 817/- for subsequent radical                  | 8,200/- for first radical and 800/-for subsequent radical                   |
| 6  | (A) Estimation of Gold or Silver by Fire Assay and AAS   | 4,158/-  | 4,906/-   | 4900/-  |
|  | (B) Estimation of both Gold and Silver by Fire Assay and AAS   | 5,544/-  | 6,541/-   | 6500/-  |
| 7.   | Sample preparation up-to 500 gm including crushing, grinding and drawing 25 gm representative sample of minus 300# size for Chemical Analysis                                  | 319/- per sample   | 376/- 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)                                 | 8,316/-     | 9,812/-                 | 9800/-                   |
| 2.        | *Amenability to mineral beneficiation including size analysis, liberation characteristics and necessary chemical analysis (per sample) | 27,720/-    | 32,709/-                | 32,700/-                 |
| 3.        | Electron Probe Micro Analyzer (EPMA) studies (Per hour per sample)   | 11,088/-    | 13,083/-                | 13,100/-                 |
| 4.        | X-Ray Diffraction (XRD) studies (Per Sample).  | 6,930/-     | 8,177/-                 | 8,200/-                  |
| 5.        | Thermal Gravimetric- Differential Thermal Analysis (TG-DTA) studies (Per Sample).  | 6,930/-     | 8,177/-                 | 8,200/-                  |
| 6.        | Photomicrographs (Four images)   | 2,772/-     | 3,270/-                 | 3,300/-                  |
| 7.        | Determination of Specific Gravity by Walker Steel Yard Balance (per sample)  | 970.2/-     | 1,144/-                 | 1100/-                   |
| 8.        | Determination of Hardness by Mohs Scale (per sample)   | 693/-       | 817/-                   | 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'  | 8,316/-     | 9,812/-                 | 9,800/-                  |
| 2.      | Group 'B' Category'  | 6,405/-     | 7,557/-                 | 7,600/-                  |
| 3.      | Group 'C' Category'  | 4,305/-     | 5,079/-                 | 5,100/-                  |
| 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 01.04.2025 onward for all item of work.