**Table - 2.1: List of associated personnel**

|  |  |  |  |
| --- | --- | --- | --- |
| **Table-2.1: Nature and Quantum of Work (Target assigned and achieved)** | | | |
| **Sl. No.** | **Nature of Work** | **Target assigned** | **Total achievement** |
| 1 | Geological Survey - (DGPS/Total Station Survey) (Sq. Km.) | - | - |
| 2 | Geological Mapping (LSM) (Sq. Km.) | 54.4 | 54.4 |
| 3 | Technological |  |  |
| (a) Surface exploration- Pitting/Trenching (cubic m) | 100 | 20 |
| (b) Subsurface exploration - Drilling (m) | 300 | 300 |
| 4 | Geochemical Survey |  |  |
| (a) Bed Rock Samples (Nos.) | 100 | 155 |
| (b) Stream Sediment Sample (Nos.) | - | - |
| (c) Core Sample (Nos.) | 150 | 142 |
| (d) PT Sample (Nos.) | 50 | 20 |
| 5 | Geophysical Survey (Self Potential method) (L. Km)/ (sq. km) | 3 L.Km | 3 L.Km |
| 6 | Petrographic/Minera graphic studies |  |  |
| (a) Petrographic (Nos.) | 5 | 5 |
| (b) EPMA (Nos.) |  |  |
| (c) Petrographic Core (Nos.) | 5 | 5 |
| (d) Ore Microscopy (Nos.) |  |  |
| 7 | Chemical analysis (Nos.) (As per approved NQT) |  |  |
| (a) Proximate analysis for Graphite | 300 | 297 |
| (b) Whole rock analysis (XRF method V2O5) | 50 | 50 |
| (c) Associated 34 elements  by ICPMS (Core Samples) | 10 | 10 |
| 8 | Check samples | 30 | 30 |

**Table - 2.2 : List of associated personnel**

|  |  |
| --- | --- |
| **Responsibility** | **Name** |
| Overall Coordination | Sourabh Sarkar, DGM |
| Headquarter Coordination | Balkrishan Vishawakarma, Senior Geologist  Promit Roy, Geologist |
| Geological field report preparation and documentation | Avijit Roy, Junior Geologist |
| Swarbhanu Dey, Junior Geologist |
| Field Geologist | Avijit Roy, Junior Geologist  Swarbhanu Dey, Junior Geologist |
| Field coordinator | Avijit Roy, Junior Geologist |
| Swarbhanu Dey, Junior Geologist |
| Petrographic Study | Ms Medha Sarkar, Geologist |
| Draftsman | Ms Gargi Roy Chowdhury |
| ArcGIS | Avijit Roy, Junior Geologist |
| Swarbhanu Dey, Junior Geologist |
| SURPAC | Ms Moulipriya Bhakta, DM |
| Geophysical Survey (Self Potential) | Dr. Subhendu Mondal, Consultant  Modalavalasa Kiran Kumar, Geophysicist  Manash Pritam Phukan, Geophysicist(Trainee)  Abhishek Deori, Geophysicist(Trainee) |
| Peer Reviewer | B.P. Raturi, GM(Retd.) MECL |
| Drilling | Samik Mukherjee (Drilling in charge) |
| Meghnath Bauri, Driller |
| Sk. Hannan, Driller |
| Sk. Mainuddin, Driller |
| Chitto Mahato, Driller |

**Table-3.1: Cardinal points of block boundary**

|  |  |  |
| --- | --- | --- |
| P | Latitude | Longitude |
| A | 23.94°N | 83.33°E |
| B | 23.95°N | 83.41°E |
| C | 23.88°N | 83.41°E |
| D | 23.88°N | 83.35°E |
| E | 23.92°N | 83.35°E |
| F | 23.92°N | 83.33°E |

**4.2**  **The Litho-Stratigraphic succession of the Dindo-Ramchandrapur area (After Mishra & kumar, 1993)** 

**Table 6.2.1 – Details of Co-ordinates of promising S.P. Anomaly zones in Dindo-Belkurta-Basera Block.**

|  |  |  |
| --- | --- | --- |
| **Id** | **UTM\_X** | **UTM\_Y** |
| **T1** | **739758.1** | **2647040** |
| **T2** | **739894.7** | **2647060** |
| **T3** | **740056** | **2647100** |
| **T4** | **740187.8** | **2647101** |
| **T5** | **740320.4** | **2647136** |
| **T6** | **740477** | **2647175** |
| **T7** | **740475.8** | **2647125** |
| **T8** | **740638** | **2647159** |
| **T9** | **741236** | **2647194** |
| **T10** | **741380** | **2647185** |
| **T11** | **741699.5** | **2647189** |
| **T12** | **742018** | **2647189** |
| **T13** | **742247.8** | **2647161** |
| **T14** | **742254** | **2647101** |
| **T15** | **742680** | **2647071** |

**Table-9.1: Borehole summary, Dindo-Belkurta-Basera Block, District – Balrampur, Chhattisgarh**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl no** | **BH ID** | **Easting** | | **Northing** | **Azimuth** | **Borehole**  **Incliation** | **Drilling depth (m)** | **RL of Collar** | **Date of Comm enceme nt** | **Date of Comple tion** |
| 1 | DBCD- 01 | 740210.  054 | 2647031  .666 | | N350° | 45° | 60 | 457.181 | 04/10/20  24 | 08/10/20  24 |
| 2 | DBBH- 02 | 740602.  77 | 2647047  .84 | | N360° | 45° | 60 | 439.836 | 08/10//20  24 | 12/10/20  24 |
| 3 | DBCD- 03 | 740945.  314 | 2647092  .387 | | N350° | 45° | 60 | 460.242 | 04/10/20  24 | 08/10/20  24 |
| 4 | DBCD- 04 | 742125.  898 | 2646944  .836 | | N360° | 45° | 60 | 471.406 | 25/09/20  24 | 30/09/20  24 |
| 5 | DBCD- 05 | 742673.  045 | 2647019  .416 | | N360° | 45° | 60 | 465.173 | 08/10/20  24 | 12/10/20  24 |

**Table-10.1: Bulk density result**

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Sl. No.** | **Sample ID** | **Bulk density** | **Unit** |
| 1. | **DBCD - 03/012** | 2.60 | g/cc |
| 2. | **DBCD - 03/014** | 2.57 | g/cc |
| 3. | **DBCD - 04/007** | 2.51 | g/cc |
| 4. | **DBCD - 04/008** | 2.54 | g/cc |

**Table No: 10.2 Resource estimation by cross sectional method**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| **BH ID/ GROOVE ID** | **STRIKE INFLUENCE (m)** | **DIP LENGTH(m)** | **AREA OF INFLUENCE/SURFACE AREA (sq.m)** | **THICKNESS (m)** | **VOLUME (m^3)** | **BULK DENSITY (g/cc)** | **RESOURCE IN TONNES** | **RESOURCE IN MILLION TONNES** | **WEIGHTED ASSAY FC %** | **AVERAGE GRADE (FC%)** |
| **G-1** | 37.5 | 25.1 | 941.25 | 0.62 | 583.575 | 2.55 | 1488.12 | 0.001 | 3.35 | **3.34%** |
| **G-2** | 50.0 | 24.5 | 1225 | 0.62 | 759.500 | 2.55 | 1936.73 | 0.002 | 2.01 |
| **G-3** | 50.0 | 24.7 | 1235 | 1.23 | 1519.050 | 2.55 | 3873.58 | 0.004 | 5.395 |
| **G-4** | 50.0 | 25.2 | 1260 | 1.85 | 2331.000 | 2.55 | 5944.05 | 0.006 | 2.84 |
| **G-5** | 50.0 | 25.55 | 1277.5 | 2.46 | 3142.650 | 2.55 | 8013.76 | 0.008 | 2.35 |
| **G-6** | 37.5 | 24.5 | 918.75 | 1.23 | 1130.063 | 2.55 | 2881.66 | 0.003 | 4.43 |
| **G-8** | 37.5 | 19.335 | 725.0625 | 0.62 | 449.539 | 2.55 | 1146.32 | 0.001 | 8.45 |
| **G-9** | 37.5 | 24.6 | 922.5 | 1.23 | 1134.675 | 2.55 | 2893.42 | 0.003 | 2.24 |
| **G-11** | 37.5 | 22.8 | 855 | 5.35 | 4574.250 | 2.55 | 11664.34 | 0.012 | 2.45 |
| **G-12** | 37.5 | 30.235 | 1133.8125 | 7.36 | 8344.860 | 2.55 | 21279.39 | 0.021 | 2.37 |
| **DBBH-1** | 37.5 | 29.02 | 1088.25 | 0.62 | 674.715 | 2.55 | 1720.52 | 0.002 | 2.07 |
| **DBBH-2** | 50.0 | 21.95 | 1097.5 | 0.67 | 735.325 | 2.55 | 1875.08 | 0.002 | 2.16 |
| **DBBH-3** | 37.5 | 45.35 | 1700.625 | 8.03 | 13656.019 | 2.55 | 34822.85 | 0.035 | 3.28 |
|  |  |  |  |  |  |  | **99539.81** | **0.100** |  |  |

**Table No:10.3: Resource estimation segment wise via SURPAC 3D modelling**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | | | |
| **Category** | **Volume (in Cubic meter)** | **Bulk Density (average)** | **Tonnes** | **Resource in MT** |
| Segment I (Groove 1-6) | 12749 | 2.55 | 32509.95 | 0.03250995 |
| Segment II (Groove 8, 9, DBCD01) | 2051 | 2.55 | 5230.05 | 0.00523005 |
| Segment III (DBCD02) | 780 | 2.55 | 1989.00 | 0.00198900 |
| Segment IV (Groove 8, 9, DBCD03) | 25180 | 2.55 | 64209.00 | 0.06420900 |
| **Total Resource of Graphite orebody (FC≥2%) in MT** | **40760** |  | **103938.00** | **0.103938≈0.10** |