

# MINERAL EXPLORATION AND CONSULTANCY LIMITED

(A GOVT OF INDIA ENTERPRISE- CPSE MINIRATNA -I)

Statement Showing Primary Analysis of Major Oxides for Bedrock samples by XRF generated by Amritpur Area, Distt: Nainital, Uttarakhand.

| Sr No | Latitude    | Longitude  | Sender No. | SiO <sub>2</sub> % | Al <sub>2</sub> O <sub>3</sub> % | Na <sub>2</sub> O% | K <sub>2</sub> O% | CaO%  | MgO%  | Fe <sub>2</sub> O <sub>3</sub> (T)% | MnO%  | TiO <sub>2</sub> % | P <sub>2</sub> O <sub>5</sub> % | SO <sub>3</sub> % | LOI%  |
|-------|-------------|------------|------------|--------------------|----------------------------------|--------------------|-------------------|-------|-------|-------------------------------------|-------|--------------------|---------------------------------|-------------------|-------|
| 1     | 29.29146476 | 79.6187404 | ABL/XRD/01 | 45.82              | 11.90                            | 0.55               | 8.68              | 16.62 | 2.50  | 3.35                                | 0.25  | 0.19               | 0.03                            | 0.09              | 9.77  |
| 2     | 29.3132220  | 79.6333330 | ABL/XRD/05 | 60.35              | 14.66                            | 0.14               | 9.44              | 0.19  | 4.46  | 7.63                                | 0.04  | 0.73               | 0.05                            | 0.01              | 1.98  |
| 3     | 29.26865606 | 79.6321037 | ABL/XRD/06 | 58.89              | 18.56                            | 0.07               | 6.63              | 0.36  | 4.33  | 5.97                                | 0.04  | 0.70               | 0.20                            | 0.09              | 3.78  |
| 4     | 29.3061000  | 79.5560440 | ABL/BR/14  | 60.69              | 15.69                            | 2.40               | 5.67              | 2.45  | 1.74  | 7.98                                | 0.08  | 0.66               | 0.26                            | 0.05              | 2.07  |
| 5     | 29.2973610  | 79.5511390 | ABL/BR/24  | 82.73              | 7.27                             | 0.05               | 1.98              | 0.15  | 1.52  | 3.52                                | 0.01  | 0.13               | 0.09                            | 0.19              | 2.20  |
| 6     | 29.2985830  | 79.5572780 | ABL/BR/25  | 70.64              | 14.71                            | 2.63               | 9.20              | 0.57  | 0.15  | 0.79                                | 0.02  | 0.04               | 0.02                            | 0.02              | 1.02  |
| 7     | 29.2910390  | 79.6301190 | ABL/BR/36  | 38.70              | 12.72                            | 2.14               | 0.24              | 14.56 | 9.31  | 10.82                               | 0.19  | 0.47               | 0.05                            | 0.04              | 10.59 |
| 8     | 29.2903740  | 79.6299790 | ABL/BR/37  | 64.38              | 16.06                            | 2.35               | 6.45              | 0.72  | 1.68  | 5.69                                | 0.05  | 0.29               | 0.17                            | 0.02              | 1.97  |
| 9     | 29.2911210  | 79.6182920 | ABL/BR/44  | 43.59              | 15.66                            | 2.03               | 2.93              | 4.60  | 12.04 | 11.65                               | 0.20  | 0.70               | 0.10                            | 0.15              | 6.32  |
| 10    | 29.2876180  | 79.6072700 | ABL/BR/46  | 89.47              | 1.29                             | <0.01              | 0.03              | 0.04  | 0.46  | 7.08                                | 0.04  | 0.06               | 0.02                            | 0.05              | 1.42  |
| 11    | 29.3087630  | 79.5546770 | ABL/BR/50  | 43.09              | 13.03                            | 1.17               | 5.54              | 3.56  | 7.86  | 21.25                               | 0.18  | 0.56               | 0.07                            | 0.02              | 3.48  |
| 12    | 29.2831130  | 79.6054960 | ABL/BR/51  | 58.51              | 18.42                            | <0.01              | 6.02              | 0.35  | 2.48  | 8.12                                | 0.06  | 0.65               | 0.23                            | 0.69              | 4.74  |
| 13    | 29.2863940  | 79.5993620 | ABL/BR/52  | 53.47              | 19.37                            | 0.55               | 5.84              | 0.06  | 1.38  | 12.75                               | 0.03  | 0.61               | 0.18                            | 0.26              | 4.96  |
| 14    | 29.3089120  | 79.6238970 | ABL/BR/60  | 89.16              | 5.32                             | 0.03               | 1.47              | 0.10  | 0.55  | 2.14                                | <0.01 | 0.33               | 0.06                            | 0.01              | 0.76  |
| 15    | 29.3081030  | 79.6219800 | ABL/BR/61  | 80.67              | 0.81                             | <0.01              | 0.04              | 0.07  | 0.72  | 17.11                               | 0.07  | 0.01               | 0.01                            | 0.01              | 0.46  |
| 16    | 29.2937700  | 79.6052900 | ABL/BR/65  | 47.05              | 17.05                            | 3.18               | 2.45              | 6.16  | 5.44  | 14.40                               | 0.16  | 1.04               | 0.23                            | 0.05              | 2.62  |
| 17    | 29.2750710  | 79.6267890 | ABL/BR/66  | 63.24              | 15.93                            | 0.33               | 6.41              | 0.26  | 1.07  | 6.95                                | <0.01 | 0.31               | 0.15                            | 0.86              | 3.55  |
| 18    | 29.3022220  | 79.5663890 | ABL/BR/99  | 59.24              | 15.90                            | 2.41               | 5.54              | 1.53  | 2.39  | 7.68                                | 0.07  | 0.62               | 0.24                            | 0.03              | 4.26  |
| 19    | 29.3007780  | 79.5566110 | ABL/BR/122 | 57.21              | 18.84                            | 0.42               | 6.92              | 0.43  | 3.79  | 7.30                                | 0.04  | 0.63               | 0.23                            | 0.05              | 3.91  |
| 20    | 29.3121390  | 79.5615280 | ABL/BR/09  | 42.31              | 13.35                            | 1.91               | 2.35              | 6.85  | 5.63  | 14.74                               | 0.17  | 0.92               | 0.15                            | 0.03              | 11.42 |