

MINERAL EXPLORATION AND CONSULTANCY LIMITED

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

Statement Showing XRD Phase Analysis for Bedrock samples generated by Kaphalda Block, Distt: Dehradun, Uttarakhand.

Sl. No.	Latitude	Longitude	Senders number	Major ($\geq 5\%$)	Minor ($\leq 5\%$ to $\geq 1\%$)	Trace, Faint Trace ($\leq 1\%$)
1	30.393238	78.224712	KAPBL/BR/01	Dolomite, Quartz	Muscovite	Titanite, Kaolinite, Magnesite
2	30.394224	78.223839	KAPBL/BR/02	Dolomite, Quartz, Ankerite, Muscovite	—————	Titanite
3	30.3939	78.2226	KAPBL/BR/03	Quartz, Goethite, Illite	Hematite, Zeolite	Orthoclase
4	30.391651	78.219905	KAPBL/BR/04	Quartz, Muscovite, Albite, Dolomite	Pyrite	Gypsum
5	30.395049	78.199883	KAPBL/BR/06	Quartz, Muscovite, Dolomite, Albite	Illite, Pyrite	Biotite, Magnetite, Phlogopite
6	30.428403	78.176329	KAPBL/BR/16	Quartz, Muscovite, Illite	—————	Phengite
7	30.429156	78.176717	KAPBL/BR/18	Quartz, Dolomite, Muscovite	Sericite	Calcite, Magnetite
8	30.40224	78.20345	KAPBL/BR/99	Andesine, Microcline, Anorthoclase, Orthoclase, Fluorapatite, Oligoclase, Quartz	Albite, Biotite	Hematite-Ilmenite, Anorthite
9	30.399261	78.205198	KAPBL/T3/02	Quartz, Muscovite, Dolomite, Hydroxylapatite	Anhydrite, Zeolite	Titanite
10	30.429276	78.176585	KAPBL/T3/03	Dolomite, Quartz, Muscovite, Fluorapatite	Albite	—————
11	30.429276	78.176585	KAPBL/T3/04	Dolomite, Quartz	Fluorapatite, Muscovite, Titanite, Hydroxylapatite	Ankerite, Biotite
12	30.429276	78.176585	KAPBL/T3/05	Quartz, Dolomite, Muscovite	Fluorapatite	Albite
13	30.429276	78.176585	KAPBL/T3/09	Quartz, Dolomite, Apatite, Muscovite	Ankerite, Glauconite, Albite	Calcite, Gypsum
14	30.39446	78.20156	KAPBL/T4/01	Quartz, Muscovite, Chamosite	Orthoclase, Illite, Calcite	Biotite, Zeolite, Titanite, Hydroxylapatite, Ankerite
15	30.399261	78.205198	KAPBL/T4/02	Quartz, Muscovite, Fluorapatite	Feldspar, Glauconite	Magnesite



Note: Only crystalline phases of the samples are recorded. Amorphous phases are out of the scope of XRD and hence excluded.