

**PETROGRAPHIC STUDIES CARRIED OUT ON SAMPLES COLLECTED FROM CORE AND BEDROCK IN  
MUNDRA-CHILAI BLOCK, YAVATMAL DISTRICT, MAHARASHTRA**

| Sl. No. | Sample Number & Location | Texture   | Mineral Composition |                               |                               | Description   |
|---------|--------------------------|---|---------------------|-------------------------------|-------------------------------|---|
|         |                          |   | Major<br>>5%        | Minor<br><5%->1%              | Accessory<br><1%              |   |
| 1       | MC/PET/01                | It is a grey coloured fine to medium grained rock showing granular texture. It reacts very slowly with cold and dilute HCl. | Dolomite            | ....                          | Opagues                       | The specimen is entirely made up of dolomite, occurring as fine to medium subhedral rhombic aggregates showing sugary texture. Opagues are noted as very fine disseminated specks in accessories.<br>The specimen is a <b><u>dolostone</u></b> .  |
| 2       | MC/PET/02                | It is a grey coloured fine grained rock showing granular texture. It reacts very slowly with cold and dilute HCl.           | Dolomite            | ....                          | Ferruginous matter<br>Opagues | The specimen is made up of fine to medium subhedral rhombic aggregates of dolomite. Stylolitic cracks are noted and are mostly filled by reddish ferruginous fillings. Opagues are seen present as very fine specks in accessories.<br>The specimen is a <b><u>dolostone</u></b> .  |
| 3       | MC/PET/03                | It is a grey coloured fine grained rock showing granular texture. It reacts very slowly with cold and dilute HCl.           | Dolomite            | Ferruginous matter<br>Calcite | Opagues                       | The specimen is composed of fine to very fine granular aggregates of dolomite, showing grain size coarsening in areas. Stylolitic cracks are found present in the specimen. Sparry patches and fine clastic veins/fillings are noted in areas. Ferruginous matter is present as very fine to fine disseminated patches and as fillings. Opagues occur as very fine specks and as relicts within ferruginous patches.<br>The specimen is a <b><u>dolostone</u></b> . |
| 4       | MC/PET/04                | It is a grey coloured fine grained rock showing granular texture. It reacts very slowly with cold and dilute HCl.           | Dolomite            | ....                          | Opagues<br>Ferruginous matter | The specimen is monomineralic, composed of fine to medium subhedral aggregates of dolomite. Opagues are noted as very fine disseminated specks. Ferruginous matter occur as reddish fillings and patches in areas.<br>The specimen is a <b><u>dolostone</u></b> .   |

| Sl. No. | Sample Number & Location | Texture   | Mineral Composition |               |                              | Description   |
|---------|--------------------------|---|---------------------|---------------|------------------------------|---|
|         |                          |   | Major >5%           | Minor <5%->1% | Accessory <1%                |   |
| 5       | MC/PET/05                | It is a grey coloured fine to medium grained rock showing granular texture. It reacts very slowly with cold and dilute HCl. | Dolomite            | ....          | Ferruginous matter<br>Opakes | The specimen is entirely made up of fine to medium subhedral to anhedral aggregates of dolomite showing tight contacts. Stylolitic cracks are noted and are often filled by reddish ferruginous fillings. Reddish ferruginous patches and stains are also spotted in areas. Opakes occur as very fine specks in accessories.<br>The specimen is a <b><u>dolostone</u></b> . |