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| **PROJECT - SIVOK RANGPO NEW BG RAILWAY LINE PROJECT** | | | | | | | | | **CO-ORDINATES - E640886.452,N2983499.194** | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LOCATION - LOHAPOOL** | | | | | | | | | **ANGLE WITH HORIZONTAL - 90** | | | | | | | | | | | | |
| **SRUCTURE - BRIDGE NO. - 05/P1** | | | | | | | | | **BEARING OF HOLE - VERTICAL** | | | | | | | | | | | | |
| **CLIENT - IRCON INTERNATIONAL LIMITED** | | | | | | | | | **DEPTH OF HOLE - 30.50m** | | | | | | | | | | | | |
| **DRILLING AGENCY - OM GEO CONSTRUCTION PVT. LTD.** | | | | | | | | | **PERIOD OF EXCUTION - 07/01/2022 - 01/02/2022** | | | | | | | | | | | | |
| **GROUND ELEVATION 271.278** | | | | | | | | | **TYPE OF CORE BARREL - TRIPPLE TUBE** | | | | | | | | | | | | |
|  | | | | | | | | | **LOGGED BY** | | | | | | | | | | | | |
|  | **DEPTH** | | | **LITHOLOGY** | | | | **SIZE OF CORE PIECES** | | | | | | | | | | **STRUCTURAL CONDITION** | | **PERCENTAGE OF RECOVERY** | | | | | | | | | | | |  | |  | |  | |  | |  | |  | | **DRILLED WATER LOSS** | | | | | | **PENETRATION RATE** | | **PERMIABILITY** | | | | **SPECIAL OBSERVATION** |
| **elevation** | from | To | | **Description** | | **Log** | | **<10mm** | **10 to 25mm** | | | **25 to 75mm** | | **75 to 150mm** | | **>150mm** | | **Description** | | **0-20** | | **20-40** | | **40-60** | | **60-80** | | **80-100** | | **Infig** | | **RQD** | | **Fracture index** | | **Size of casing** | | **Size of hole** | | **Size of bit** | | **Depth of GWT** | | **Nil** | | **partial** | | **complete** | |  | | **Test section** | | **Lugeon value** | |  |
| **271.278** | 0 | 0.45 | | **SOIL MIXED WITH SAND AND QUARTZITE YELLOW COLOR AS SAND** | | ®®® | |  |  | | |  | |  | |  | | **OVERBERDEN** | |  | |  | |  | |  | |  | | **40** | |  | |  | | **HX** | | **NX** | | **NQ3** | |  | |  | |  | |  | |  | |  | |  | | **SPT 35+40+30** |
| **270.828** | 0.45 | 1 | | ®®® | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **67** | |  | |  | |  | |  | |  | |  | | **2.75** | |  | |  | |  |
| **270.278** | 1 | 2 | | ®®® | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **58** | |  | |  | |  | |  | |  | |  | | **3.12** | |  | |  | |  |
| **269.278** | 2 | 3 | | **PHYLLITE, QUARTZATIC PHYLLITE AND SOME PECIES OF GNEISS GREYISH TO LIGHT GREYISH** | | ˜˜͌ | |  | **>10** | | | **6** | |  | |  | | **65-70°** | |  | |  | |  | |  | |  | | **74** | |  | |  | |  | |  | |  | |  | | **2.22** | |  | |  | |  |
| **268.278** | 3 | 4 | | ˜˜͌ | |  | **>10** | | | **10** | | **1** | |  | | **45-50°** | |  | |  | |  | |  | |  | | **75** | | **10** | |  | | **NX** | |  | |  | |  | |  | | **1.96** | |  | |  | |  |
| **267.278** | 4 | 5 | | ˜˜͌**∞** | |  | **>10** | | | **5** | | **1** | |  | | **60-65°** | |  | |  | |  | |  | |  | | **80** | | **10** | |  | |  | |  | |  | |  | | **1.81** | |  | |  | |  |
| **266.278** | 5 | 6 | | **PHYLLITE AND QUARTZATIC PHYLLITE** | | ˜˜͌ | |  | **>10** | | | **3** | | **1** | | **1** | | **70-85°**                      **70-85°** | |  | |  | |  | |  | |  | | **84** | | **33** | |  | |  | |  | |  | |  | | **1.53** | |  | |  | |  |
| **265.278** | 6 | 7 | | ˜˜͌ | |  | **>10** | | | **2** | | **8** | |  | |  | |  | |  | |  | |  | | **82** | |  | |  | |  | |  | |  | |  | | **1.66** | |  | |  | |  |
| **264.278** | 7 | 8 | | **PHYLLITE AND QUARTZATIC PYLLITE FRACTURED ROCK MASS**  **GREYISH IN COLOR** | | ˜˜͌ | | **>10** | **>10** | | | **4** | | **5** | |  | |  | |  | |  | |  | |  | | **88** | |  | |  | |  | |  | |  | |  | | **1.44** | |  | |  | |  |
| **263.278** | 8 | 9 | | ˜˜͌ | | **>10** | **>10** | | | **>10** | |  | | **1** | |  | |  | |  | |  | |  | | **96** | | **17** | |  | |  | |  | |  | |  | | **0.83** | |  | |  | |  |
| **262.278** | 9 | 10 | | ˜˜͌ | | **>10** | **>10** | | | **6** | |  | |  | |  | |  | |  | |  | |  | | **90** | |  | |  | |  | |  | |  | |  | | **0.71** | |  | |  | |  |
| **261.278** | 10 | 11 | | ˜˜͌ | | **>10** | **>10** | | | **10** | |  | |  | |  | |  | |  | |  | |  | | **85** | |  | |  | |  | |  | |  | |  | | **0.74** | |  | |  | |  |
| **260.278** | 11 | 12 | | ˜˜͌ | |  | **3** | | | **2** | | **2** | |  | |  | |  | |  | |  | |  | | **96** | |  | |  | |  | |  | |  | |  | |  | | **0.83** | |  | |  | |  |
| **259.278** | 12 | 12.75 | | ˜˜͌ | |  |  | | | **5** | | **2** | |  | |  | |  | |  | |  | |  | | **64** | |  | |  | |  | |  | |  | |  | |  | | **0.78** | |  | |  | |  |
| **258.528** | 12.75 | 13.5 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **97** | |  | |  | |  | |  | |  | |  | |  | | **0.98** | |  | |  | |  |
| **257.778** | 13.5 | 15 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | | **0.96** | |  | |  | |  |
| **256.278** | 15 | 16.5 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **95** | |  | |  | |  | |  | |  | |  | |  | | **1.01** | |  | |  | |  |
| **254.778** | 16.5 | 18 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **90** | |  | |  | |  | |  | |  | |  | |  | | **0.85** | |  | |  | |  |
| **253.278** | 18 | 18.75 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **84** | |  | |  | |  | |  | |  | |  | |  | | **0.65** | |  | |  | |  |
| **252.528** | 18.75 | 19.5 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | | **0.77** | |  | |  | |  |
| **251.778** | 19.5 | 20.5 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | | **0.94** | |  | |  | |  |
| **250.778** | 20.5 | 21 | | ˜˜͌ | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | | **0.71** | |  | |  | |  |
| **250.278** | 21 | 22 | |  | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | | **75** | |  | |  | |  | |  | |  | |  | |  | | **0.56** | |  | |  | |  |
| **249.278** | 22 | 23 | | **PHYLLITE AND QUARTZITE**  **GREYISH TO WHITE COLOR FINE GRAIN** | | ˜͌ˠ | |  | **2** | | | **5** | | **1** | |  | |  | |  | |  | |  | |  | | **95** | | **55** | |  | |  | |  | |  | |  | |  | | **0.39** | |  | |  | |  |
| **248.278** | 23 | 23.75 | | **MILKY WHITE STRONG QUARTZITE FINE GRAIN** | | ˠ | |  | **5** | | | **4** | | **1** | | **1** | | **80-85°** | |  | |  | |  | |  | |  | | **73** | | **33** | |  | |  | |  | |  | |  | |  | | **0.4** | |  | |  | |  |
| **247.528** | 23.75 | 24 | | ˠ | |  |  | | |  | | **2** | |  | |  | |  | |  | |  | |  | | **60** | | **60** | |  | |  | |  | |  | |  | |  | | **0.4** | |  | |  | |  |
| **247.278** | 24 | 25 | | ˠ | |  |  | | | **5** | | **3** | |  | |  | |  | |  | |  | |  | | **82** | | **20** | |  | |  | |  | |  | |  | |  | | **0.34** | |  | |  | |  |
| **246.278** | 25 | 26 | | ˠ | |  | **2** | | | **2** | | **2** | | **2** | |  | |  | |  | |  | |  | | **80** | | **68** | |  | |  | |  | |  | |  | |  | | **0.42** | |  | |  | |  |
| **245.278** | 26 | 27.5 | | ˠ | |  | **3** | | |  | |  | | **3** | | **70-75°** | |  | |  | |  | |  | |  | | **96** | | **72** | |  | |  | |  | |  | |  | |  | | **0.41** | |  | |  | |  |
| **243.778** | 27.5 | 28.5 | | ˠ | |  | **9** | | |  | | **4** | | **2** | |  | |  | |  | |  | |  | | **99** | | **63** | |  | |  | |  | |  | |  | |  | | **0.27** | |  | |  | |  |
| **242.778** | 28.5 | 29 | | ˠ | |  | **10** | | | **11** | |  | |  | |  | |  | |  | |  | |  | | **58** | |  | |  | |  | |  | |  | |  | |  | | **0.26** | |  | |  | |  |
| **242.278** | 29 | 30 | | ˠ | |  |  | | |  | | **2** | | **1** | | **65-70°** | |  | |  | |  | |  | |  | | **87** | | **70** | |  | |  | |  | |  | |  | |  | | **0.22** | |  | |  | |  |
| **241.278** | 30 | 30.5 | | ˠ | |  |  | | | **6** | |  | |  | |  | |  | |  | |  | |  | | **74** | |  | |  | |  | |  | |  | |  | |  | | **0.23** | |  | |  | |  |
|  |  |  | |  | |  | |  |  | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| **NOTE TIME:** | | | |  | | --- | | **®®®** |   OVERBURDEN | | | | | | | |  | | --- | | ˜͌ |   **PHYLLITE** | | | | | | | | | **SHEAR ZONE** | | | | | | | | | | | | | | **GWT=GROUND WATER TABLE** | | | | | | | | | | | | **SPT=STANDARD PENETRATION TEST** | | | | | | | | | | | |
| |  | | --- | | ˜ |   **QUARTZATIC PHYLLITE** | | | | | | | |  | | --- | | ˠ |   **QUARTZITE** | | | | | | | | | |  | | --- | | **∞** |   **GNEISS** | | | | | | | | | | | | | | **SM=SMOOTH** | | | | | | **R=ROUGH** | | | | | |  | | | | | | | | | | | |
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