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| **PROJECT - SIVOK RANGPO NEW BG RAILWAY LINE PROJECT** | | | | | | | | | **CO-ORDINATES - E640877.662,N2983500.263** | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **LOCATION - LOHAPOOL** | | | | | | | | | **ANGLE WITH HORIZONTAL - 90** | | | | | | | | | | |
| **SRUCTURE - BRIDGE NO. - 05/P1(2nd)** | | | | | | | | | **BEARING OF HOLE - VERTICAL** | | | | | | | | | | |
| **CLIENT - IRCON INTERNATIONAL LIMITED** | | | | | | | | | **DEPTH OF HOLE - 19.50m** | | | | | | | | | | |
| **DRILLING AGENCY - OM GEO CONSTRUCTION PVT. LTD.** | | | | | | | | | **PERIOD OF EXCUTION - 15/02/2022 - 21/02/2022** | | | | | | | | | | |
| **GROUND ELEVATION 269.167** | | | | | | | | | **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** | |  | |
| **269.167** | 0 | 1 | | **BROKEN PIECE OF PHYLLITE AND DUST GREYISH COLOR** | ˜͌ | |  | |  |  | |  | |  | | **OVERBERDEN** | |  | |  | |  | |  | |  | | **60** | |  | |  | | **HX (1.5m)** | | **NX** | | **NQ3** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **268.167** | 1 | 2 | | **FRACTURED GNEISS ULTERNATE BAND OF DARK AND LIGHT COLOR** | **∞** | |  | |  | **10** | |  | |  | |  | |  | |  | |  | |  | |  | | **62** | |  | | **NX (18m)** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **267.167** | 2 | 3.5 | | **FRESH GNEISS UNWETHERED ULTERNATE BAND OF DARK AND LIGHT COLOR** | **∞** | |  | |  | **1** | | **1** | | **2** | | **70-75°** | |  | |  | |  | |  | |  | | **63** | | **17** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **265.667** | 3.5 | 4.5 | | **∞** | |  | | **15** | **4** | |  | | **2** | |  | |  | |  | |  | |  | | **98** | | **66** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **264.667** | 4.5 | 6 | | **GREYISH TO GREENISH COLOR SHEARED DECOMPOSED PHYLLITE** | ˜͌ | |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | | **68** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **263.167** | 6 | 7 | | **FRACTURED GREENISH COLOR PHYLLITE** | ˜͌ | |  | | **10** | **4** | |  | |  | | **60-75°** | |  | |  | |  | |  | |  | | **64** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **262.167** | 7 | 8 | | ˜͌ | |  | | **3** |  | |  | |  | |  | |  | |  | |  | |  | | **48** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **261.167** | 8 | 9 | | **QUARTZITIC PHYLLITE HIGHLY FRACTURED GREENISH COLOR ROCK** | ˜ | |  | |  | **2** | |  | | **1** | | **40-55°** | |  | |  | |  | |  | |  | | **52** | | **15** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **260.167** | 9 | 10.5 | | ˜ | | **100** | | **7** | **6** | |  | |  | |  | |  | |  | |  | |  | | **83** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **258.667** | 10.5 | 12 | | ˜ | |  | |  | **1** | | **1** | |  | |  | |  | |  | |  | |  | | **88** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **257.167** | 12 | 13 | | ˜ | |  | |  | **6** | | **1** | |  | |  | |  | |  | |  | |  | | **91** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **256.167** | 13 | 14.5 | | ˜ | |  | |  | **4** | | **1** | |  | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **254.667** | 14.5 | 16 | | ˜ | |  | |  | **2** | |  | |  | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **253.167** | 16 | 17 | | ˜ | |  | |  | **2** | | **1** | | **1** | |  | |  | |  | |  | |  | | **76** | | **26** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **252.167** | 17 | 17.7 | | **QUARTZITE WHITE AND GREEN COLOR BAND** | ˠ | |  | |  | **2** | | **2** | |  | | **70-75°** | |  | |  | |  | |  | |  | | **69** | | **15** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **251.467** | 17.7 | 19 | | ˠ | |  | |  |  | | **1** | | **1** | |  | |  | |  | |  | |  | | **51** | | **12** | |  | |  | |  | |  | |  | |  | |  | |  | |
| **250.167** | 19 | 19.5 | | ˠ | |  | | **3** | **6** | | **3** | |  | |  | |  | |  | |  | |  | | **100** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **249.667** | 19.5 | 20 | |  |  | |  | | **1** | **4** | | **1** | |  | | **20-55°** | |  | |  | |  | |  | |  | | **98** | | **26** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **249.167** | 20 | 21 | |  | |  | |  | **4** | | **1** | |  | |  | |  | |  | |  | |  | | **87** | | **12** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **248.167** | 21 | 22 | |  | |  | | **2** |  | |  | |  | | **35-50°** | |  | |  | |  | |  | |  | | **88** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **247.167** | 22 | 23 | |  |  | |  | | **5** | **6** | |  | |  | | **40-45°** | |  | |  | |  | |  | |  | | **72** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **246.167** | 23 | 24 | |  |  | |  | | **10** |  | | **7** | |  | | **30-35°** | |  | |  | |  | |  | |  | | **98** | | **12** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **245.167** | 24 | 25 | |  |  | |  | | **5** | **2** | | **1** | |  | | **40-55°** | |  | |  | |  | |  | |  | | **99** | | **10** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **244.167** | 25 | 26 | |  |  | |  | |  | **5** | | **1** | |  | |  | |  | |  | |  | |  | | **92** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **243.167** | 26 | 27.5 | |  |  | |  | | **14** |  | |  | |  | | **15-20°** | |  | |  | |  | |  | |  | | **91** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **241.667** | 27.5 | 28 | |  |  | |  | | **2** |  | |  | |  | |  | |  | |  | |  | |  | | **98** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **241.167** | 28 | 28.75 | |  |  | |  | | **8** | **6** | | **1** | |  | | **40-50°** | |  | |  | |  | |  | |  | | **79** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **240.417** | 28.75 | 29.5 | |  |  | |  | |  |  | | **6** | |  | |  | |  | |  | |  | |  | | **79** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **239.667** | 29.5 | 30 | |  |  | |  | |  | **8** | | **1** | |  | | **50-55°** | |  | |  | |  | |  | |  | | **80** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **239.167** | 30 | 31.5 | |  |  | |  | |  | **4** | | **3** | |  | |  | |  | |  | |  | |  | | **89** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **237.667** | 31.5 | 33 | |  |  | |  | | **8** | **5** | | **5** | |  | |  | |  | |  | |  | |  | | **79** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **236.167** | 33 | 34.5 | |  |  | |  | |  | **18** | | **1** | |  | | **25-30°** | |  | |  | |  | |  | |  | | **59** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **234.667** | 34.5 | 35.5 | |  |  | |  | |  | **10** | | **1** | |  | | **40-50°** | |  | |  | |  | |  | |  | | **78** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **233.667** | 35.5 | 37 | |  |  | |  | |  | **13** | | **4** | |  | |  | |  | |  | |  | |  | | **76** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **232.167** | 37 | 37.5 | |  |  | |  | |  | **3** | | **2** | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
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| **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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