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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 (1)** | | | | | | | **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- Manoj kumar saw** | | | | | | | | |
|  | **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** |  | | **>15** | **HX114mm** | **NX**  **89mm** | | **NQ 75mm** | **11m** |  | |  |  |  |  |  | **SPT 35+40+30=105 blows from 0 to 0.45**  **Highly weathered**  **N value is 70** |
| **270.828** | 0.45 | 1 | |  |  | |  |  |  |  |  | |  |  |  | **67** |  | |  | |  |  | **2.75** |  |  |
| **270.278** | 1 | 2 | |  |  | |  |  |  |  |  | |  |  |  | **58** |  | |  | |  |  | **3.12** |  |  |
| **269.278** | 2 | 3 | | **PHYLLITE, QUARTZATIC PHYLLITE** |  |  | **>10** | | **6** |  |  | **65-70° joint** | |  |  | |  |  |  | **74** |  | | **>15** |  | |  |  | **2.22** |  |  | **INFERRIBLE SPT** |
| **268.278** | 3 | 4 | |  | **>10** | | **10** | **1** |  | **45-50° joint** | |  |  | |  |  |  | **75** | **10** | | **>15** | **NX** |  | |  |  | **1.96** |  |  |  |
| **267.278** | 4 | 5 | |  | **>10** | | **5** | **1** |  | **60-65° joint** | |  |  | |  |  |  | **80** | **10** | | **>15** |  | |  |  | **1.81** |  |  | **INFERRIBLE SPT** |
| **266.278** | 5 | 6 | | **PHYLLITE AND QUARTZATIC PHYLLITE** |  | **>10** | | **3** | **1** | **1** | **70-85° joint**                  **70-85°joint** | |  |  | |  |  |  | **84** | **33** | | **15-8** |  | |  |  | **1.53** |  |  | **Highly to moderatel-y fracturure and very small pieces slightly weathered** |
| **265.278** | 6 | 7 | |  | **>10** | | **2** | **8** |  |  |  | |  |  |  | **82** |  | | **>15** |  | |  |  | **1.66** |  |  |
| **264.278** | 7 | 8 | | **PHYLLITE AND QUARTZATIC PYLLITE FRACTURED ROCK MASS**  **GREYISH IN COLOR** |  | **>10** | **>10** | | **4** | **5** |  |  |  | |  |  |  | **88** |  | | **>15** |  | |  |  | **1.44** |  |  |
| **263.278** | 8 | 9 | | **>10** | **>10** | | **>10** |  | **1** |  |  | |  |  |  | **96** | **17** | | **>15** |  | |  |  | **0.83** |  |  |
| **262.278** | 9 | 10 | | **>10** | **>10** | | **6** |  |  |  |  | |  |  |  | **90** |  | | **>15** |  | |  |  | **0.71** |  |  |
| **261.278** | 10 | 11 | | **>10** | **>10** | | **10** |  |  |  |  | |  |  |  | **85** |  | | **>15** |  | |  |  | **0.74** |  |  |
| **260.278** | 11 | 12 | |  | **3** | | **2** | **2** |  |  |  | |  |  |  | **96** |  | | **>15** |  |  |  | |  |  | **0.83** |  |  |
| **259.278** | 12 | 12.75 | |  |  | | **5** | **2** |  |  |  | |  |  |  | **64** |  | | **>15** |  |  |  | |  |  | **0.78** |  |  | Highly fracturure and very small pieces slightly weathered |
| **258.528** | 12.75 | 13.5 | |  |  | |  |  |  |  |  | |  |  |  | **97** |  | | **>15** |  |  |  | |  |  | **0.98** |  |  |
| **257.778** | 13.5 | 15 | |  |  | |  |  |  |  |  | |  |  |  | **80** |  | | **>15** |  |  |  | |  |  | **0.96** |  |  |
| **256.278** | 15 | 16.5 | |  |  | |  |  |  |  |  | |  |  |  | **95** |  | | **>15** |  |  |  | |  |  | **1.01** |  |  |
| **254.778** | 16.5 | 18 | |  |  | |  |  |  |  |  | |  |  |  | **90** |  | | **>15** |  |  |  | |  |  | **0.85** |  |  |
| **253.278** | 18 | 18.75 | |  |  | |  |  |  |  |  | |  |  |  | **84** |  | | **>15** |  |  |  | |  |  | **0.65** |  |  |
| **252.528** | 18.75 | 19.5 | |  |  | |  |  |  |  |  | |  |  |  | **80** |  | | **>15** |  |  |  | |  |  | **0.77** |  |  |
| **251.778** | 19.5 | 20.5 | |  |  | |  |  |  |  |  | |  |  |  | **80** |  | | **>15** |  |  |  | |  |  | **0.94** |  |  |
| **250.778** | 20.5 | 21 | |  |  |  | |  |  |  |  |  | |  |  |  | **80** |  | | **>15** |  |  |  | |  |  | **0.71** |  |  |
| **250.278** | 21 | 22 | |  |  | |  |  |  |  |  | |  |  |  | **75** |  | | **>15** |  |  |  | |  |  | **0.56** |  |  |
| **249.278** | 22 | 23 | | **PHYLLITE AND QUARTZITE**  **GREYISH TO WHITE COLOR FINE GRAIN** |  |  | **2** | | **5** | **1** |  |  |  | |  |  |  | **95** | **55** | | **8-5** |  |  |  | |  |  | **0.39** |  |  | Slightly weathered |
| **248.278** | 23 | 23.75 | | **MILKY WHITE STRONG QUARTZITE FINE GRAIN** |  |  | **5** | | **4** | **1** | **1** | **80-85°joint** | |  |  | |  |  |  | **73** | **33** | | **8-15** |  |  |  | |  |  | **0.4** |  |  | Slightly weathered |
| **247.528** | 23.75 | 24 | |  |  | |  | **2** |  |  |  | |  |  |  | **60** | **60** | | **8-5** |  |  |  | |  |  | **0.4** |  |  |
| **247.278** | 24 | 25 | |  |  | | **5** | **3** |  |  |  | |  |  |  | **82** | **20** | | **>15** |  |  |  | |  |  | **0.34** |  |  |
|  |  | |  |
| **246.278** | 25 | 26 | |  | **2** | | **2** | **2** | **2** |  | |  |  | |  |  |  | **80** | **68** | | **8-5** |  |  | |  |  |  | |  |  | **0.42** |  |  | Slightly weathered |
| **245.278** | 26 | 27.5 | |  | **3** | |  |  | **3** | **70-75°joint** | |  |  | |  |  |  | **96** | **72** | | **8-5** |  |  |  | |  |  | **0.41** |  |  | Slightly weathered  Slightly to moderately fractured |
| **243.778** | 27.5 | 28.5 | |  | **9** | |  | **4** | **2** |  |  | |  |  |  | **99** | **63** | | **8-5** |  |  |  | |  |  | **0.27** |  |  |
| **242.778** | 28.5 | 29 | |  | **10** | | **11** |  |  |  |  | |  |  |  | **58** |  | | **>15** |  |  |  | |  |  | **0.26** |  |  |
| **242.278** | 29 | 30 | |  |  | |  | **2** | **1** | **65-70°joint** | |  |  | |  |  |  | **87** | **70** | | **8-5** |  |  |  | |  |  | **0.22** |  |  |
| **241.278** | 30 | 30.5 | |  |  | | **6** |  |  |  |  | |  |  |  | **74** |  | | **>15** |  |  |  | |  |  | **0.23** |  |  |
| **NOTE TIME:** | | | |  | | --- | |  |   OVERBURDEN | | | | | |  | | --- | |  |   **PHYLLITE** | | | | | **SHEAR ZONE** | | | | | | | | | **GWT=GROUND WATER TABLE AT 11M** | | | | | | | | **SPT=STANDARD PENETRATION TEST** | | | | | | |
| |  | | --- | |  |   **QUARTZATICPHYLLITE** | | | | | |  | | --- | |  |   **QUARTZITE** | | | | | |  | | --- | |  |   **GNEISS** | | | | | | | | | **SM=SMOOTH** | | | | **R=ROUGH** | | | |  | | | | | | |