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| **PROJECT - SIVOK RANGPO NEW BG RAILWAY LINE PROJECT** | | | | | | **CO-ORDINATES - E644155.989,N2978856.100** | | | | | |  | | | | | | | | | | | | | | | | | |
| **LOCATION - KALIJHORA** | | | | | | **ANGLE WITH HORIZONTAL - 90** | | | | | |
| **SRUCTURE - BRIDGE NO. - 03/P2** | | | | | | **BEARING OF HOLE - VERTICAL** | | | | | |
| **CLIENT - IRCON INTERNATIONAL LIMITED** | | | | | | **DEPTH OF HOLE - 52.50m** | | | | | |
| **DRILLING AGENCY - OM GEO CONSTRUCTION PVT. LTD.** | | | | | | **PERIOD OF EXCUTION - 03/08/2021 - 22/08/2021** | | | | | |
| **GROUND ELEVATION 182.472** | | | | | | **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** | **In fig** | **RQD** | **Fracture index** | **Size of casing** | **Size of hole** | **Size of bit** | **Depth of GWT** | **Nil** | **partial** | **complete** |  | **Test section** | **Lugeon value** |  |
| **182.47** | **0** | **1** | **BROWN SOIL MIXED WITH PEBBLES** | ®®®®®®®®®®®® |  |  |  |  |  | **overburden** |  |  |  |  |  | **14** |  |  | **HX (1.5m)** | **NX** | **NQ3** |  |  |  |  | **10** |  |  |  |
| **181.47** | **1** | **2** | ®®®®® |  |  |  |  |  |  |  |  |  |  | **44** |  |  |  |  | **5** |  |  |  |
| **180.47** | **2** | **3** | oooooo |  |  | **10** | **2** |  |  |  |  |  |  | **53** |  | **NX (33.5**  **m)** |  |  |  | **4** |  |  |  |
| **179.47** | **3** | **4** | oooooo |  |  | **6** |  |  |  |  |  |  |  | **50** |  |  |  |  | **3.3** |  |  |  |
| **178.47** | **4** | **5** | oooooo |  | **15** | **12** |  |  |  |  |  |  |  | **57** |  |  |  |  | **2.8** |  |  |  |
| **177.47** | **5** | **6** | **QUARTZITIC PHYLLITE HIGHLY FRACTURED LIGHT GREYISH IN COLOR** | ̴̴̴̴̴̴̎̎͂͂͂͂͂͂͂͂͂͂͂͂˜˜ |  | **7** | **11** | **1** |  | **23-69° Smooth filling** |  |  |  |  |  | **52** |  |  |  |  | **2.4** |  |  |  |
| **176.47** | **6** | **7** | ̴̴̴˜ ˜ |  | **15** | **17** | **2** |  |  |  |  |  |  | **74** |  |  |  |  | **2.2** |  |  |  |
| **175.47** | **7** | **8** | ˜˜ |  | **12** | **10** | **4** |  |  |  |  |  |  | **68** | **10** |  |  |  | **2.08** |  |  |  |
| **174.47** | **8** | **9** | ˜˜ |  | **5** | **9** | **1** |  |  |  |  |  |  | **57** | **15** |  |  |  | **2.5** |  |  |  |
| **173.47** | **9** | **10** | ˜ ˜ |  | **10** | **14** | **1** |  |  |  |  |  |  | **56** |  |  |  |  | **2.6** |  |  |  |
| **172.47** | **10** | **11** | ˜˜ |  |  | **11** | **2** |  |  |  |  |  |  | **58** |  |  |  |  | **3.3** |  |  |  |
| **171.47** | **11** | **12** | ˜˜ |  | **5** | **9** | **6** |  |  |  |  |  |  | **70** | **24** |  |  |  | **3** |  |  |  |
| **170.47** | **12** | **13** | **PHYLLITE, QUARTZATIC PHYLLITE HIGHLY FRACTURED GREYISH COLOR** | ˜˜͌ |  |  | **13** | **1** |  | **67° J Rough Interface** |  |  |  |  |  | **48** |  |  |  |  | **2.8** |  |  |  |
| **169.47** | **13** | **14** | ˜˜͌ |  | **5** | **6** | **1** | **1** |  |  |  |  |  | **59** | **16** |  |  |  | **2.6** |  |  |  |
| **168.47** | **14** | **15** | ˜˜͌ |  | **10** | **15** | **2** |  |  |  |  |  |  | **47** |  |  |  |  | **3.3** |  |  |  |
| **167.47** | **15** | **16** | ˜˜͌ |  | **10** | **16** |  |  |  |  |  |  |  | **44** |  |  |  |  | **3.8** |  |  |  |
| **166.47** | **16** | **17** | ˜˜͌ |  | **14** | **16** |  |  |  |  |  |  |  | **54** |  |  |  |  | **3.4** |  |  |  |
| **165.47** | **17** | **18** | ˜˜͌ |  | **10** | **15** |  |  |  |  |  |  |  | **53** |  |  |  |  | **2.8** |  |  |  |
| **164.47** | **18** | **19** | **QUARTZITIC PHYLLITE WITH**  **CARBONACIEOUS SHALE GREYISH TO BLACK COLORED** | ˜˜͊ |  | **3** | **22** |  |  | **F/J 30-70° Rough Fracture** |  |  |  |  |  | **52** |  |  |  |  | **3.8** |  |  |  |
| **163.47** | **19** | **20** | ̼̼ ˜˜͊ |  | **10** | **8** |  |  |  |  |  |  |  | **42** |  |  |  |  | **3.2** |  |  |  |
| **162.47** | **20** | **21** | **QUARTZATIC PHYLLITE GREYISH IN COLOR** | ˜˜ |  | **3** | **7** | **1** |  |  |  |  |  |  |  | **62** |  |  |  |  | **3.3** |  |  |  |
| **161.47** | **21** | **22** | ˜˜ |  | **20** | **9** | **1** |  |  |  |  |  |  | **55** |  |  |  |  | **2.5** |  |  |  |
| **160.47** | **22** | **23** | ˜˜ |  | **10** | **6** | **1** |  |  |  |  |  |  | **57** | **11** |  |  |  | **2.6** |  |  |  |
| **159.47** | **23** | **24** | ˜˜ |  |  | **2** | **3** |  |  |  |  |  |  | **49** | **32** |  |  |  | **2.8** |  |  |  |
| **158.47** | **24** | **25** | **QUARTZATIC**  **PHYLLITE MODERATELY TO HIGHLY WHETHERED LIGHT GREYISH TO GREYISH COLORED** | ˜˜ |  | **5** | **6** |  |  | **44-69° J Fracture Rough** |  |  |  |  |  | **40** |  |  |  |  | **3.3** |  |  |  |
| **157.47** | **25** | **26** | ˜˜ |  | **30** | **7** |  |  |  |  |  |  |  | **47** |  |  |  |  | **3.3** |  |  |  |
| **156.47** | **26** | **27** | ˜˜ |  | **20** | **10** |  |  |  |  |  |  |  | **38** |  |  |  |  | **4.5** |  |  |  |
| **155.47** | **27** | **28** | **PHYLLITE INFILLING WITH CARBONACIEOUS SHALE FRACTURED MODERATELY TO HIGHLY WHETHERED GREYISH TO BLACK COLORED** | ˜͌˜͊ |  | **10** | **3** | **0** |  |  |  |  |  |  |  | **35** |  |  |  |  | **2.3** |  |  |  |
| **154.47** | **28** | **29** | ˜͌˜͊ |  | **10** | **5** | **1** |  |  |  |  |  |  | **58** |  |  |  |  | **3.4** |  |  |  |
| **153.47** | **29** | **30** | ˜͌˜͊ |  |  | **5** | **2** | **1** |  |  |  |  |  | **70** | **26** |  |  |  | **4** |  |  |  |
| **152.47** | **30** | **31** | ˜͌˜͊ |  | **0** | **3** | **0** | **2** |  |  |  |  |  | **78** | **44** |  |  |  | **3.3** |  |  |  |
| **151.47** | **31** | **32** | ˜͌˜͊ |  | **20** | **6** | **1** |  |  |  |  |  |  | **60** |  |  |  |  | **3.4** |  |  |  |
| **150.47** | **32** | **33** | ˜͌˜͊ |  | **12** | **7** |  |  |  |  |  |  |  | **58** |  |  |  |  | **4** |  |  |  |
| **149.47** | **33** | **34** | ˜͌˜͊ |  |  | **1** |  |  |  |  |  |  |  | **55** |  |  |  |  | **3.3** |  |  |  |

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| **148.47** | **34** | **35** | **PHYLLITE INFILLING WITH CARBONACIEOUS SHALE FRACTURED MODERATELY TO HIGHLY WHETHERED LIGHT GREYISH TO BLACK COLOR** | ˜͌˜͊ |  |  | **2** | **1** |  | **36-60° J smooth filling** |  |  |  |  |  | **38** |  |  |  |  |  |  |  |  |  | **3.7** |  |  |  |
| **147.47** | **35** | **36** | ˜͌˜͊ |  | **12** | **1** | **1** |  |  |  |  |  |  | **57** |  |  |  |  |  | **4** |  |  |  |
| **146.47** | **36** | **37** | **CARBONACIEOUS**  **SHALE BLACK IN**  **COLOR HIGHLY**  **WETHERED** | ˜͊ ˜͊ |  | **17** | **6** |  |  |  |  |  |  |  |  | **70** |  |  |  |  |  | **2.8** |  |  |  |
| **145.92** | **37** | **37.55** | ˜͊ ˜͊ |  |  |  |  |  |  |  |  |  |  |  | **78** |  |  |  |  |  | **3.7** |  |  |  |
| **145.47** | **37.55** | **38** | ˜͊ ˜͊ |  |  |  |  |  |  |  |  |  |  |  | **33** |  |  |  |  |  | **3.3** |  |  | **SPT 30+40+25 BLOWS** |
| **144.47** | **38** | **39** | **CARBONACIEOUS SHALE**  **QUARTZITIC PHYLLITE**  **SLIGHTLY TO**  **MODERATELY WHETHERED**  **GREYISH IN COLOR** | ˜͊ ˜ |  | **6** | **2** |  |  | **42-46° J filling Joint** |  |  |  |  |  | **42** |  |  |  |  |  | **2.2** |  |  |  |
| **143.92** | **39** | **39.55** | ˜͊ ˜ |  | **4** | **1** |  |  |  |  |  |  |  | **89** |  |  |  |  |  | **2.5** |  |  |  |
| **143.47** | **39.55** | **40** | ˜͊ ˜ |  |  |  |  |  |  |  |  |  |  | **44** |  |  |  |  |  | **2.5** |  |  | **SPT 30+35+20 BLOWS** |
| **142.47** | **40** | **41** | **PHYLIGHT AND CARBONACIOUS SHALE HIGHLY WETHERED BLACK AND GRAYISH IN COLOR** | ˜͌˜͊ |  | **6** | **5** | **1** |  |  |  |  |  |  | **60** |  |  |  |  |  | **2.4** |  |  |  |
| **141.47** | **41** | **42** | ˜͌˜͊ |  | **4** | **2** |  |  |  |  |  |  |  | **69** |  |  |  |  |  | **2.5** |  |  |  |
| **140.47** | **42** | **43** | ˜͌˜͊ |  | **5** | **3** | **1** | **1** |  |  |  |  |  | **70** |  |  |  |  |  | **2.6** |  |  |  |
| **139.47** | **43** | **44** | **QUARTZITIC PHYLLITE MODERATLY WETHERED GREYISH IN COLOR FINE GRAIN** | ˜ ˜ |  | **8** | **4** | **4** |  |  |  |  |  |  | **82** |  |  |  |  |  | **2.7** |  |  |  |
| **138.47** | **44** | **45** | **QUARTZATIC PHYLLITE SLIGHTLY TO MODERATELY WHETHERED INFILLING WITH CARBONACIEOUS SHALE GREYISH AND BLACK COLOR** | ˜͊ ˜ |  | **2** | **7** | **1** |  |  |  |  |  |  | **57** | **10** |  |  |  |  | **2.7** |  |  |  |
| **137.47** | **45** | **46** | ˜͊ ˜ |  |  | **1** | **5** | **1** | **27-50° J With smooth surface Fractured pretal** |  |  |  |  |  | **80** | **30** |  |  |  |  | **2.5** |  |  |  |
| **136.47** | **46** | **47** | ˜͊ ˜ |  |  | **7** | **2** |  |  |  |  |  |  | **83** | **12** |  |  |  |  | **2.3** |  |  |  |
| **135.47** | **47** | **48** | ˜͊ ˜ |  | **10** | **10** | **2** |  |  |  |  |  |  | **95** | **31** |  |  |  |  | **1.6** |  |  |  |
| **133.92** | **48** | **49.5** | ˜͊ ˜ |  | **8** | **12** | **2** |  |  |  |  |  |  | **93** | **15** |  |  |  |  | **1.7** |  |  |  |
| **132.42** | **49.5** | **51** | ˜͊ ˜ |  | **10** | **9** | **2** |  |  |  |  |  |  | **90** | **15** |  |  |  |  | **1.4** |  |  |  |
| **130.92** | **51** | **52.5** | ˜͊ ˜ |  | **8** | **5** | **4** |  |  |  |  |  |  | **90** | **15** |  |  |  |  | **1.38** |  |  |  |
| **NOTE TIME:** | | | |  | | --- | | **®®®** |   OVERBURDEN | | | |  | | --- | | ˜͌ |   **PHYLLITE** | | | | | **SHEAR ZONE** | | | | | | | **GWT=GROUND WATER TABLE** | | | | | | **SPT=STANDARD PENETRATION TEST** | | | | | |
| |  | | --- | | ˜ |   **QUARTZATIC PHYLLITE** | | | |  | | --- | | ˜͊ |   CARBONACIEOUS SHALE | | | | |  | | | | | | | **SM=SMOOTH** | | | **R=ROUGH** | | |  | | | | | |
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