

# ANNEXURE-V

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK <u>Detailed Litholog</u>	
Borehole No. :LPA/G3/01	Date of commencement : 05.02.2024
Latitude : 20°04'45.988"	Date of closing :10.03.2024
Longitude : 83°29'16.451"	Azimuth : 320°
RL of collar (m) : 270.607	Rig No. : DYNA-35-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :50.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) :5.85	Drilling Agency : Mining Associates Private Limited

DRILL RUN DETAILS						Rock Description	SAMPLE DETAILS				CHEMICAL ANALYSIS RESULTS			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.08	16	-	Pebbles of weathered granite gneiss	LPA/G3/01-01	0.00	3.50	3.50	0.03	3.48	95.2	1.29
0.50	1.00	0.50	0.11	22	-	Pebbles of weathered granite gneiss								
1.00	1.50	0.50	0.20	40	-	Hard massive fractured granite gneiss								
1.50	2.10	0.60	0.24	40	-	Highly weathered granite gneiss								
2.10	2.60	0.50	0.25	50	-	Highly weathered granite gneiss								
2.60	3.00	0.40	0.27	68	-	Highly weathered granite gneiss								
3.00	3.50	0.50	0.28	56	-	Highly weathered granite gneiss								
3.50	4.00	0.50	0.00	0	-	Core loss								
4.00	4.50	0.50	0.47	94	-	Highly weathered granite gneiss	LPA/G3/01-02	4.00	7.10	3.10	0.3	3.03	95.9	0.77
4.50	5.00	0.50	0.44	88	-	Highly fractured granite gneiss								
5.00	6.10	1.10	0.99	90	-	Highly fractured granite gneiss								
6.10	7.10	1.00	0.96	96	-	Highly fractured granite gneiss	LPA/G3/01-03	7.10	11.10	4.00	0.06	1.81	97.5	0.63
7.10	8.10	1.00	0.97	97	-	Highly fractured granite gneiss								
8.10	9.60	1.50	1.40	93	84	Highly fractured granite gneiss								
9.60	11.10	1.50	0.96	64	-	Highly fractured granite gneiss	LPA/G3/01-04	11.10	14.10	3.00	0.02	3.5	94.75	1.73
11.10	12.10	1.00	0.95	95	-	Highly fractured granite gneiss								
12.10	13.10	1.00	0.93	93	-	Highly fractured granite gneiss								
13.10	14.10	1.00	0.90	90	-	Highly fractured granite gneiss	LPA/G3/01-05	14.10	15.10	1.00	0.07	3.54	94.6	1.79
14.10	15.10	1.00	0.92	92	-	Highly fractured granite gneiss								
15.10	16.10	1.00	0.96	96	-	Inclusions of graphite within highly fractured granite gneiss								
16.10	17.10	1.00	0.95	95	-	Inclusions of graphite within highly fractured granite gneiss	LPA/G3/01-06	15.10	16.10	1.00	4.36	5.4	87.4	2.84
17.10	17.70	0.60	0.47	78	-	Highly fractured granite gneiss	LPA/G3/01-07	16.10	17.10	1.00	2.16	4.05	91.1	2.69
							LPA/G3/01-08	17.10	17.70	0.60	1.98	6.16	89	2.86
17.70	19.10	1.40	1.35	96	-	Inclusions of graphite in hard massive highly fractured granite gneiss	LPA/G3/01-09	17.70	18.70	1.00	3.49	4.7	89.4	2.41
							LPA/G3/01-10	18.70	19.80	1.10	2.84	3.38	92.2	1.58
19.10	20.60	1.50	1.49	99	-	0.70-Inclusions of graphite in hard massive fracture granite gneiss 0.79-Hard massive highly fractured granite gneiss	LPA/G3/01-11	19.80	20.60	0.80	0.69	2.05	96.5	0.76
20.60	22.10	1.50	1.42	95	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-12	20.60	21.60	1.00	2.67	3.05	93.7	0.58
22.10	23.60	1.50	1.49	99	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-13	21.60	22.60	1.00	5.51	3.69	89.8	1
							LPA/G3/01-14	22.60	23.60	1.00	6.03	4.49	87.9	1.58

23.60	25.10	1.50	1.40	93	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-15	23.60	24.60	1.00	9.4757	3.7977	85.4846	1.242
25.10	26.10	1.00	0.99	99	85	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-16	24.60	25.60	1.00	9.69	4.51	84.8	1
26.10	27.10	1.00	0.99	99	-	0.49-Inclusions of graphite within hard massive fractured granite gneiss 0.50-Fracture granite gneiss	LPA/G3/01-17	25.60	26.60	1.00	8.87	5.53	84.4	1.2
							LPA/G3/01-18	26.60	27.10	0.50	0.85	1.71	97.2	0.24
27.10	28.10	1.00	0.99	99	-	0.70-Graphite inclusions in hard massive fracture granite gneiss 0.29-Fracture granite gneiss	LPA/G3/01-19	27.10	27.80	0.70	3.45	3.6	92.3	0.65
28.10	29.10	1.00	0.97	97	-	Hard massive fractured granite gneiss	LPA/G3/01-20	27.80	29.10	1.30	0.27	0.95	98.4	0.38
29.10	30.10	1.00	0.96	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-21	29.10	30.10	1.00	10.1494	3.1066	86.12	0.624
30.10	31.10	1.00	0.96	96	-	0.63-Inclusions of graphite within hard massive fractured granite gneiss 0.33-Hard massive Fracture granite gneiss	LPA/G3/01-22	30.10	30.73	0.63	6.4046	4.6065	87.8286	1.1603
31.10	32.60	1.50	1.47	98	-	0.40-Hard massive fractured granite gneiss 0.30-Inclusions of graphite within hard massive granite gneiss 0.77-Hard massive fracture granite gneiss	LPA/G3/01-23	30.73	31.50	0.77	0.23	2.4923	96.6122	0.6655
							LPA/G3/01-24	31.50	31.80	0.30	2.4715	2.4002	94.3032	0.8251
32.60	33.60	1.00	0.99	99	83	0.40-Hard massive fractured granite gneiss 0.59-Inclusions of graphite within fractured granite gneiss	LPA/G3/01-25	31.80	33.00	1.20	2.0839	2.1223	95.3366	0.4572
33.60	35.00	1.40	1.38	99	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/01-26	33.00	34.00	1.00	11.2478	3.9622	83.1755	1.6145
							LPA/G3/01-27	34.00	35.00	1.00	10.4252	4.3552	83.6735	1.5461
35.00	36.00	1.00	0.93	93	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/01-28	35.00	36	1.00	12.6459	3.5741	82.2092	1.5708
36.00	37.00	1.00	0.82	82	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/01-29	36.00	37	1.00	11.6409	4.3356	82.2588	1.7647
							LPA/G3/01-30	37.00	37.30	0.30	12.7757	3.2129	82.8103	1.2011
37.00	37.40	0.40	0.38	95	-	0.30-Inclusions of graphite within altered granite gneiss 0.08-Carbonaceous material within granite gneiss			38.40		0.1449	1.3152	97.3487	1.1912
37.40	38.40	1.00	0.99	99	-	Carbonaceous material within hard massive fractured granite gneiss	LPA/G3/01-31	37.30		1.10				
38.40	38.90	0.50	0.49	98	-	0.30-Inclusions of graphite in granite gneiss 0.19- Carbonaceous material within granite gneiss	LPA/G3/01-32	38.40	38.7	0.30	7.7634	3.0572	87.8882	1.2912
							LPA/G3/01-33	38.70	39.7	1.00	0.0208	2.944	93.42	3.6152
38.90	40.00	1.10	1.09	99	-	Highly fractured granite gneiss								
40.00	41.50	1.50	1.48	99	-	Hard massive highly fractured granite gneiss					0.2398	0.6095	98.1953	0.9554
41.50	42.00	0.50	0.47	94	-	Hard massive highly fractured granite gneiss								
42.00	43.50	1.50	1.48	99	-	Hard massive highly fractured granite gneiss	LPA/G3/01-34	39.70	43.3	3.60				
											0.2468	1.2286	97.6273	0.8973
43.50	44.80	1.30	1.21	93	-	0.80-Hard massive fractured granite gneiss 0.41- Inclusions of graphite within highly fractured granite gneiss	LPA/G3/01-35	43.30	44.3	1.00				
							LPA/G3/01-36	44.30	44.8	0.50	6.722	3.7416	88.0403	1.4961

44.80	45.70	0.90	0.88	98	-	Hard massive highly fractured granite gneiss	LPA/G3/01-37	44.80	45.7	0.90	0.1666	3.941	93.7658	2.1266
45.70	47.20	1.50	1.48	99	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-38	45.70	46.7	1.00	7.0541	3.5688	87.9961	1.381
47.20	48.70	1.50	1.45	97	85	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-39	46.70	47.7	1.00	4.7715	2.6203	92.1353	0.4729
							LPA/G3/01-40	47.70	48.7	1.00	7.1148	3.3603	88.9912	0.5337
48.70	50.00	1.30	1.27	98	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/01-41	48.70	49.4	0.70	10.6687	4.2538	84.0437	1.0338
							LPA/G3/01-42	49.40	50	0.60	7.1035	3.6977	88.7893	0.4095
Borehole closed at 50.00 m														



Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK <u>Detailed Litholog</u>	
Borehole No. :LPA/G3/02	Date of commencement :20.04.2024
Latitude : 20°04'52.006"	Date of closing : 01.05.2024
Longitude : 83°29'19.342"	Azimuth : 320°
RL of collar (m) : 268.186	Rig No. : DYNA-50-CR-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :50.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) :2.80	Drilling Agency : Mining Associates Private Limited

DRILL RUN DETAILS						Rock Description	SAMPLE DETAILS				CHEMICAL ANALYSIS RESULTS			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.14	28	-	Highly weathered granite gneiss	LPA/G3/02-01	0.00	1.00	1.00	0.0741	4.9767	92.83	2.1175
0.50	1.00	0.50	0.20	40	-	Fractured rock fragment of granite gneiss								
1.00	2.00	1.00	0.80	80	-	Highly weathered granite gneiss	LPA/G3/02-02	1.00	2.00	1.00	1.0112	6.0202	90.96	2.0039
2.00	3.00	1.00	0.60	60	-	Soil with Inclusions of graphite	LPA/G3/02-03	2.00	3.00	1.00	3.033	7.6048	86.73	2.6361
3.00	3.90	0.90	0.17	19	-	Highly weathered granite gneiss	LPA/G3/02-04	3.00	5.20	2.20	0.8819	6.4994	89.27	3.3515
3.90	4.20	0.30	0.26	87	-	Highly weathered granite gneiss								
4.20	5.20	1.00	0.32	32	-	Highly weathered granite gneiss								
5.20	6.20	1.00	0.87	87	-	Highly weathered granite gneiss with inclusions of graphite	LPA/G3/02-05	5.20	6.20	1.00	4.3755	6.0661	85.63	3.9249
6.20	6.70	0.50	0.49	98	-	Highly weathered granite gneiss with inclusions of graphite	LPA/G3/02-06	6.20	7.20	1.00	4.6655	6.2483	86.16	2.9298
6.70	8.20	1.50	1.37	91	-	Highly weathered granite gneiss with inclusions of graphite	LPA/G3/02-07	7.20	8.20	1.00	3.7248	6.3166	84.63	5.3286
8.20	9.70	1.50	0.60	40	-	Highly weathered granite gneiss with inclusions of graphite	LPA/G3/02-08	8.20	9.70	1.50	4.719	4.8137	87.14	3.3292
9.70	10.70	1.00	0.26	26	-	Highly weathered granite gneiss	LPA/G3/02-09	9.70	11.70	2.00	1.4267	3.1591	93.04	2.3735
10.70	11.70	1.00	0.20	20	-	Highly weathered granite gneiss								
11.70	12.20	0.50	0.10	20	-	Fracture rock of weathered granite gneiss	LPA/G3/02-10	11.70	13.70	2.00	0.4491	5.9677	90.88	2.7069
12.20	12.70	0.50	0.25	50	-	0.10-Fractured rock fragments of granite gneiss 0.15-Highly weathered granite gneiss								
12.70	13.20	0.50	0.40	80	-	Highly weathered granite gneiss								
13.20	14.20	1.00	0.62	62	-	Highly weathered granite gneiss	LPA/G3/02-11	13.70	16.30	2.60	0.86	4.58	92.7	1.86
14.20	14.60	0.40	0.36	90	-	Highly weathered granite gneiss								
14.60	15.10	0.50	0.38	76	-	Highly weathered granite gneiss								
15.10	16.30	1.20	0.98	82	-	Highly weathered granite gneiss	LPA/G3/02-12	16.30	17.30	1.00	6.9438	5.2137	84.17	3.6728
16.30	17.30	1.00	0.96	96	-	Inclusions of graphite within fractured granite gneiss								
17.30	18.10	0.80	0.79	99	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/02-13	17.30	18.30	1.00	7.0901	4.7647	85.83	2.3109
18.10	19.60	1.50	1.40	93	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/02-14	18.30	19.30	1.00	6.64	6.76	84.1	2.5
19.60	21.10	1.50	1.46	97	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/02-15	19.30	20.30	1.00	8.9582	5.4269	83.18	2.4348

21.10	22.60	1.50	1.48	99	85	Inclusions of graphite within fractured granite gneiss	LPA/G3/02-16	20.30	21.30	1.00	11.63	5.53	81.2	1.64
							LPA/G3/02-17	21.30	22.30	1.00	11.0694	5.3032	82.18	1.4425
22.60	24.10	1.50	1.48	99	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/02-18	22.30	23.30	1.00	10	4.82	83.6	1.58
							LPA/G3/02-19	23.30	24.10	0.80	6.1297	5.3772	85.15	3.3432
24.10	25.30	1.20	0.95	79	-	0.70-weathered granite gneiss 0.25-Inclusions of graphite within weathered granite gneiss	LPA/G3/02-20	24.10	24.80	0.70	0.25	7.34	88	4.41
							LPA/G3/02-21	24.80	26.15	1.35	4.86	9.21	78	7.93
25.30	26.80	1.50	1.35	90	-	0.85-Inclusions of graphite within weathered granite gneiss 0.50-Weathered granite gneiss	LPA/G3/02-22	26.15	26.80	0.65	1.96	9.18	83	5.86
							LPA/G3/02-23	26.80	27.80	1.00	5.44	7.89	81.6	5.07
26.80	28.30	1.50	1.35	90	-	Inclusions of graphite within weathered granite gneiss	LPA/G3/02-24	27.80	28.80	1.00	5.66	6.57	83.6	4.17
							LPA/G3/02-25	28.80	29.80	1.00	5.88	9.12	81.3	3.7
28.30	29.80	1.50	1.03	69	-	Inclusions of graphite within weathered granite gneiss	LPA/G3/02-26	29.80	30.80	1.00	6.52	6.6	83.5	3.38
							LPA/G3/02-27	30.80	32.10	1.30	6.67	8.34	78.6	6.39
29.80	31.30	1.50	1.38	92	-	Inclusions of graphite within weathered granite gneiss								
							LPA/G3/02-28	32.10	32.80	0.70	3.73	9.35	83.7	3.22
31.30	32.80	1.50	1.15	77	-	0.80-Inclusions of graphite within weathered granite gneiss 0.35-weathered granite gneiss								
							LPA/G3/02-29	32.80	33.80	1.00	6.44	5.67	85.8	2.09
32.80	34.30	1.50	1.46	97	-	Inclusions of graphite within weathered granite gneiss								
							LPA/G3/02-30	33.80	34.80	1.00	6.42	4.58	86.4	2.6
34.30	35.80	1.50	1.40	93	85	Inclusions of graphite within weathered granite gneiss	LPA/G3/02-31	34.80	35.80	1.00	6.76	4.99	85.3	2.95
							LPA/G3/02-32	35.80	36.80	1.00	2.35	7.1	87.2	3.35
35.80	37.30	1.50	1.40	93	-	Highly fractured granite gneiss	LPA/G3/02-33	36.80	37.80	1.00	3.23	6.65	86.9	3.22
							LPA/G3/02-34	37.80	38.80	1.00	6.74	5.24	85.9	2.12
37.30	38.80	1.50	1.42	95	-	Inclusions of graphite within fractured granite gneiss								
							LPA/G3/02-35	38.80	39.80	1.00	6.48	5.39	86.9	1.23
38.80	39.30	0.50	0.49	98	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-36	39.80	40.80	1.00	7.45	5.35	85.2	2
39.30	40.30	1.00	0.95	95	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-37	40.80	41.80	1.00	6.95	5.87	85.1	2.08
40.30	41.30	1.00	0.98	98	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-38	41.80	42.80	1.00	6.36	6.34	85.8	1.5
41.30	42.00	0.70	0.69	99	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-39	42.80	43.80	1.00	6.42	5.39	86.3	1.89
42.00	43.50	1.50	1.49	99	84	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-40	43.80	44.60	0.80	4.51	4.03	89.5	1.96
43.50	44.60	1.10	1.08	98	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-41	44.60	45.60	1.00	0.96	6.38	88.7	3.96
44.60	45.60	1.00	0.97	97	-	Hard massive fractured granite gneiss								
							LPA/G3/02-42	45.60	46.60	1.00	4.1	4.33	90.1	1.47
45.60	46.60	1.00	0.99	99	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/02-43	46.60	47.60	1.00	3.1	5.13	89.9	1.87
46.60	47.60	1.00	0.95	95	-	Inclusions of graphite within hard massive fractured granite gneiss								

47.60	48.60	1.00	0.96	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/02-44	47.60	50.00	2.40	3.64	3.61	91.5	1.25
48.60	49.50	0.90	0.81	90	-	Inclusions of graphite within hard massive fractured granite gneiss								
49.50	50.00	0.50	0.48	96	85	Inclusions of graphite within hard massive fractured granite gneiss								
Borehole closed at 50.00 m														

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17.45	18.90	1.45	1.44	99	-	Hard massive and fractured granite gneiss with silica intrusion	LPA/G3/03-07	18.00	21.00	3.00	0.12	0.42	99.40	0.06
18.90	20.30	1.40	1.39	99	-	Hard massive and fractured granite gneiss with silica intrusion								
20.30	21.80	1.50	1.49	99	-	Hard massive and fractured granite gneiss								
21.80	22.40	0.60	0.59	98	-	Hard massive and fractured granite gneiss	LPA/G3/03-08	21.00	24.00	3.00	0.03	0.05	99.90	0.02
22.40	23.90	1.50	1.49	99	80	Hard massive and fractured granite gneiss								
23.90	25.40	1.50	1.47	98	-	Hard massive and fractured granite gneiss								
25.40	26.90	1.50	1.49	99	-	Hard massive and fractured granite gneiss	LPA/G3/03-09	24.00	27.00	3.00	0.02	0.15	99.80	0.03
26.90	28.40	1.50	1.45	97	-	Hard massive and fractured granite gneiss								
28.40	29.20	0.80	0.78	97	-	Hard massive and fractured granite gneiss								
29.20	30.70	1.50	1.48	99	-	Hard massive and fractured granite gneiss with inclusion of mica	LPA/G3/03-10	27.00	30.00	3.00	0.12	0.94	98.32	0.62
30.70	32.20	1.50	1.48	99	-	Hard massive and fractured granite gneiss with inclusion of mica								
32.20	33.70	1.50	1.48	99	80	Hard massive granite gneiss,								
33.70	35.00	1.30	1.29	99	-	Hard massive granite gneiss	LPA/G3/03-11	30.00	33.00	3.00	0.26	0.93	98.80	0.01
							LPA/G3/03-12	33.00	35.00	2.00	0.59	0.77	98.60	0.04
Borehole closed at 35.00 m														

Logged by: Bhupati Kumar Nayak





15.40	15.90	0.50	0.49	98	-	Hard massive fractured granite gneiss	LPA/G3/04-06		15.00	18.00	3.00	0.21	1.05	98.25	0.49
15.90	16.10	0.20	0.18	90	-	Hard massive fractured granite gneiss									
16.10	17.40	1.30	1.26	97	-	Hard massive fractured granite gneiss									
17.40	18.80	1.40	1.38	99	-	Hard massive fractured granite gneiss	LPA/G3/04-07		18.00	21.00	3.00	0.25	0.53	99.17	0.06
18.80	20.30	1.50	1.47	98	-	Hard massive fractured granite gneiss									
20.30	21.80	1.50	1.47	98	-	Hard massive fractured granite gneiss									
21.80	23.30	1.50	1.49	99	-	Hard massive fractured granite gneiss	LPA/G3/04-08		21.00	24.00	3.00	0.02	0.10	99.80	0.08
23.30	24.70	1.40	1.38	99	-	Hard massive fractured granite gneiss									
24.70	26.20	1.50	1.47	98	-	Hard massive fractured granite gneiss									
26.20	27.70	1.50	1.45	97	-	Hard massive fractured granite gneiss	LPA/G3/04-09		24.00	27.00	3.00	0.10	0.83	99.00	0.07
27.70	29.20	1.50	1.48	99	85	Hard massive fractured granite gneiss									
29.20	29.70	0.50	0.43	86	-	Hard massive fractured granite gneiss									
29.70	30.90	1.20	1.17	98	-	Hard massive fractured granite gneiss	LPA/G3/04-10		27.00	30.00	3.00	0.07	0.17	99.56	0.20
30.90	32.40	1.50	1.47	98	-	Hard massive fractured granite gneiss									
32.40	33.40	1.00	0.96	96	-	Hard massive fractured granite gneiss									
33.40	34.50	1.10	1.07	97	-	Hard massive fractured granite gneiss	LPA/G3/04-11		30.00	33.00	3.00	0.02	0.06	99.91	0.01
34.50	35.00	0.50	0.44	88	-	Hard massive fractured granite gneiss									
Borehole closed at 35.00 m															

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK	
<u>Detailed Litholog</u>	
Borehole No. :LPA/G3/05	Date of commencement : 07.02.2024
Latitude : 20°04'35.31"	Date of closing : 06.04.2024
Longitude : 83°29'06.503"	Azimuth : 310°
RL of collar (m) : 306.985	Rig No. : DYNA-35-01
Inclination angle of borehole : 50°	Size of core: HQ3
Total Depth (m) :60.00	Type of drilling: Wet(Tripple tube)
Casing Depth (m) :3.75	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.25	50	-	Pebbles of highly weathered granite gneiss	LPA/G3/05-01	0.00	1.10	1.10	0.9156	4.2586	93.0557	1.7701
0.50	1.10	0.60	0.25	42	-	Pebbles of highly weathered granite gneiss								
1.10	1.60	0.50	0.25	50	-	Inclusions of graphite within highly weathered granite gneiss								
1.60	2.00	0.40	0.30	75	-	Inclusions of graphite within highly weathered granite gneiss	LPA/G3/05-02	1.10	2.10	1.00	9.09	6.56	82.6	1.75
2.00	2.60	0.60	0.50	83	-	Inclusions of graphite within highly weathered granite gneiss								
2.60	3.10	0.50	0.33	66	-	Inclusions of graphite within highly weathered granite gneiss								
3.10	3.60	0.50	0.25	50	-	Highly weathered granite gneiss	LPA/G3/05-03	2.10	3.10	1.00	16.54	3.44	79.4	0.62
3.60	4.10	0.50	0.30	60	-	Inclusions of graphite within highly weathered granite gneiss								
4.10	4.60	0.50	0.20	40	-	Inclusions of graphite within highly weathered granite gneiss								
4.60	5.10	0.50	0.20	40	-	Inclusions of graphite within highly weathered granite gneiss	LPA/G3/05-04	3.10	3.60	0.50	0.64	5.85	91.7	1.81
5.10	5.60	0.50	0.00	0	-	Core Loss								
5.60	6.10	0.50	0.42	84	-	Inclusions of graphite within highly weathered granite gneiss								
6.10	7.10	1.00	0.85	85	-	Inclusions of graphite within highly weathered granite gneiss	LPA/G3/05-05	5.60	6.60	1.00	7.17	5.37	84.7	2.76
7.10	8.10	1.00	0.85	85	-	Inclusions of graphite within highly weathered granite gneiss								
8.10	9.10	1.00	0.85	85	-	Hard fractured granite gneiss								
9.10	10.10	1.00	0.55	55	-	Inclusions of graphite within highly weathered granite gneiss	LPA/G3/05-06	6.60	8.10	1.50	2.2709	3.2875	92.7751	1.6665
10.10	10.60	0.50	0.24	48	-	Inclusions of graphite within highly weathered granite gneiss								
10.60	11.10	0.50	0.25	50	-	Weathered granite gneiss								
11.10	11.60	0.50	0.40	80	-	Weathered granite gneiss	LPA/G3/05-07	8.10	9.10	1.00	2.52	3.12	92.6	1.76
11.60	12.10	0.50	0.45	90	-	Weathered granite gneiss								
12.10	12.60	0.50	0.43	86	-	Inclusions of graphite within highly weathered granite gneiss								
12.60	13.10	0.50	0.48	96	-	Inclusions of graphite within highly weathered granite gneiss	LPA/G3/05-08	9.10	10.60	1.50	2.49	3.7	92.4	1.41
13.10	13.60	0.50	0.41	82	-	Inclusions of graphite within highly weathered granite gneiss								
13.60	14.60	1.00	0.87	87	-	Weathered and fractured granite gneiss								
14.60	15.10	0.50	0.47	94	-	Weathered and fractured granite gneiss	LPA/G3/05-09	10.60	12.10	1.50	0.18	6.38	90.5	2.94
15.10	15.60	0.50	0.37	74	-	Weathered and fractured granite gneiss								
15.60	16.10	0.50	0.35	70	-	Weathered and fractured granite gneiss								
16.10	16.60	0.50	0.42	84	-	Weathered and fractured granite gneiss	LPA/G3/05-10	12.10	13.60	1.50	11.7822	3.5617	83.0549	1.6012
16.60	17.10	0.50	0.41	82	-	0.26-Hard massive fractured granite gneiss 0.15-Inclusions of graphite within weathered granite gneiss								
17.10	17.60	0.50	0.45	90	-	Inclusions of graphite within weathered and fractured granite gneiss								
17.60	18.10	0.50	0.47	94	-	Inclusions of graphite within weathered and fractured granite gneiss	LPA/G3/05-11	13.60	15.60	2.00	1.0449	2.1228	95.2233	1.609
							LPA/G3/05-12	15.60	16.86	1.26	1.6466	2.1623	94.8257	1.3654
							LPA/G3/05-13	16.86	18.10	1.24	9.2173	2.9833	86.1938	1.6056

18.10	18.60	0.50	0.31	62	-	Inclusions of graphite within weathered and fractured granite gneiss	LPA/G3/05-15	18.10	19.10	1.00	6.8497	5.1169	85.997	2.0364
18.60	19.10	0.50	0.35	70	-	Inclusions of graphite within weathered and fractured granite gneiss								
19.10	19.60	0.50	0.38	76	-	Inclusions of graphite within weathered and fractured granite gneiss	LPA/G3/05-16	19.10	20.45	1.35	11.8381	2.8709	83.8752	1.4158
19.60	20.20	0.60	0.46	77	-	Inclusions of graphite within weathered and fractured granite gneiss								
20.20	20.80	0.60	0.45	75	-	0.25-Inclusions of graphite within weathered and fractured granite gneiss 0.20-Fractured granite gneiss	LPA/G3/05-17	20.45	21.10	0.65	1.4395	3.7232	93.5244	1.3129
20.80	21.40	0.60	0.46	77	-	0.30 - Hard massive fractured granite gneiss 0.16- Minor graphite Inclusions in granite gneiss	LPA/G3/05-18	21.10	21.70	0.60	2.228	4.4422	90.9995	2.3303
21.40	22.10	0.70	0.66	94	-	0.30-Inclusions of graphite within weathered and fractured granite gneiss 0.36-Fractured granite gneiss	LPA/G3/05-19	21.70	22.60	0.90	0.4596	1.8638	96.2114	1.4652
22.10	22.60	0.50	0.49	98	-	Hard massive fractured granite gneiss								
22.60	23.10	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-20	22.60	23.60	1.00	16.2138	2.307	80.9198	0.5594
23.10	24.10	1.00	0.93	93	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-21	23.60	24.60	1.00	14.8922	1.0469	83.751	0.3099
24.10	25.10	1.00	0.80	80	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-22	24.60	25.60	1.00	11.6073	3.2129	84.027	1.1528
25.10	25.60	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-23	25.60	26.60	1.00	13.9706	2.1306	82.9333	0.9655
25.60	26.60	1.00	0.95	95	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-24	26.60	27.60	1.00	10.8199	3.562	84.1309	1.4872
26.60	27.10	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-25	27.60	28.60	1.00	11.5018	3.2152	83.4628	1.8202
27.10	28.10	1.00	0.96	96	80	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-26	28.60	29.60	1.00	12.5304	3.3281	81.864	2.2775
28.10	29.10	1.00	0.98	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-27	29.60	30.60	1.00	16.6512	2.2168	80.171	0.961
29.10	30.10	1.00	0.96	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-28	30.60	31.60	1.00	14.8506	2.9772	80.5998	1.5724
30.10	31.10	1.00	0.92	92	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-29	31.60	32.60	1.00	16.8855	2.3513	80.5729	0.1903
31.10	32.10	1.00	0.96	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-30	32.60	33.60	1.00	17.0782	2.344	79.8504	0.7274
32.10	33.10	1.00	0.96	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-31	33.60	34.60	1.00	15.1855	3.2976	80.4887	1.0282
33.10	34.10	1.00	0.76	76	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-32	34.60	35.60	1.00	15.1188	4.2246	79.927	0.7296
34.10	35.60	1.50	1.35	90	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-33	35.60	36.60	1.00	9.6911	4.8809	84.0876	1.3404
35.60	36.60	1.00	0.96	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-34	36.60	37.10	0.50	11.4465	4.5064	82.989	1.0581
36.60	37.10	0.50	0.44	88	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/05-35	37.10	38.10	1.00	9.9894	4.5246	84.5027	0.9833
37.10	38.10	1.00	0.99	99	-	Hard massive fractured granite gneiss	LPA/G3/05-36	38.10	39.30	1.20	11.7507	3.4038	84.165	0.6805
38.10	39.10	1.00	0.96	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-37	39.30	41.00	1.70	1.3398	1.1766	97.1147	0.3689
39.10	40.00	0.90	0.88	98	-	0.20-Inclusions of graphite within hard massive fractured granite gneiss 0.68- Hard massive fractured granite gneiss								
40.00	41.00	1.00	0.95	95	-	Hard massive fractured granite gneiss								
41.00	42.00	1.00	0.94	94	79	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-38	41.00	42.00	1.00	8.9779	2.2055	88.5284	0.2882
42.00	43.00	1.00	0.94	94	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-39	42.00	43.00	1.00	16.4445	2.6267	80.4341	0.4947
43.00	44.00	1.00	0.97	97	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-40	43.00	44.00	1.00	10.4091	2.2174	87.0506	0.3229
44.00	45.00	1.00	0.97	97	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-41	44.00	45.00	1.00	8.3009	3.0043	88.0218	0.673

45.00	46.00	1.00	0.96	96	-	Inclusions of graphite within hard massive fractured granite gneiss with sulphide	LPA/G3/05-42	45.00	46.00	1.00	13.6009	2.4375	83.1493	0.8123
46.00	47.00	1.00	0.98	98	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-43	46.00	47.00	1.00	9.2119	2.4308	87.7712	0.5861
47.00	48.00	1.00	0.99	99	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-44	47.00	48.00	1.00	12.0146	2.8576	84.519	0.6088
48.00	49.00	1.00	0.98	98	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-45	48.00	49.00	1.00	13.8862	2.8038	82.1421	1.1679
49.00	50.00	1.00	0.96	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-46	49.00	50.00	1.00	13.0272	2.1321	84.2754	0.5653
50.00	51.00	1.00	0.95	95	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-47	50.00	51.00	1.00	12.7214	2.0895	84.5853	0.6038
51.00	52.50	1.50	1.47	98	80	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-48	51.00	52.00	1.00	8.5878	2.786	87.5093	1.1169
52.50	54.00	1.50	1.38	92	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-49	52.00	53.00	1.00	8.9246	2.6157	87.611	0.8487
54.00	55.00	1.00	0.99	99	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-50	53.00	54.00	1.00	8.6561	3.8985	86.1259	1.3195
55.00	56.00	1.00	0.98	98	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-51	54.00	55.00	1.00	10.0573	3.659	84.9638	1.3199
56.00	57.00	1.00	0.99	99	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-52	55.00	56.00	1.00	9.2623	2.8267	86.8206	1.0904
57.00	58.00	1.00	0.97	97	80	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-53	56.00	57.00	1.00	9.5052	3.2153	86.3544	0.9251
58.00	59.00	1.00	0.98	98	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-54	57.00	58.00	1.00	8.854	3.9854	85.962	1.1986
59.00	60.00	1.00	0.97	97	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-55	58.00	59.00	1.00	8.6598	4.1167	86.1964	1.0271
59.00	60.00	1.00	0.97	97	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/05-56	59.00	60.00	1.00	10.6104	2.2736	86.3699	0.7461
Borehole closed at 60.00 m														



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16.10	17.10	1.00	0.94	94	-	0.74 Hard massiveFractured granite gneiss 0.20 Inclusions of graphite withen frctured granite gneiss	LPA/G3/06-08	16.84	18.10	1.26	1.6274	2.8946	93.9998	1.4782
17.10	18.10	1.00	0.99	99	-	Inclusions of graphite withen fractured granite gneiss								
18.10	19.10	1.00	0.99	99	80	0.69- fractured granite gneiss 0.30- Inclusions of graphite	LPA/G3/06-09	18.10	18.79	0.69	0.5509	1.8906	96.8158	0.7427
19.10	20.10	1.00	0.95	95	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-10	18.79	20.10	1.31	3.36	4.7375	89.9179	1.9846
20.10	21.10	1.00	0.98	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-11	20.10	21.10	1.00	3.4579	6.516	87.0125	3.0136
21.10	22.10	1.00	0.94	94	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-12	21.10	22.10	1.00	2.6744	8.0542	86.4984	2.773
22.10	23.15	1.05	1.00	95	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-13	22.10	23.10	1.00	2.2477	6.2553	89.2581	2.2389
23.15	24.15	1.00	0.56	56	-	Inclusions of graphite within fractured and altered granite gneiss	LPA/G3/06-14	23.10	24.10	1.00	4.3028	6.4041	87.2672	2.0259
24.15	24.55	0.40	0.3	75	-	0.25 Highly fractured and altered granite gneiss 0.20 Inclusions of graphite within fractured granite gneiss	LPA/G3/06-15	24.10	25.10	1.00	0.2366	2.7414	95.2283	1.7937
24.55	25.05	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss								
25.05	25.55	0.50	0.4	80	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/06-16	25.10	26.05	0.95	3.4498	3.2559	91.1489	2.1454
25.55	26.05	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-17	26.05	27.85	1.80	0.0786	1.6973	97.2385	0.9856
26.05	26.55	0.50	0.49	98	-	Highly fractured and altered granite gneiss								
26.55	27.10	0.55	0.54	98	-	Highly fractured and altered granite gneiss								
27.10	27.85	0.75	0.44	59	-	Highly fractured and altered granite gneiss								
27.85	28.30	0.45	0.42	93	-	Inclusions of graphite within highly fractured and altered granite gneiss	LPA/G3/06-18	27.85	28.80	0.95	2.6762	2.3707	93.1734	1.7797
28.30	28.80	0.50	0.36	72	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-19	28.80	30.00	1.20	1.7247	3.8529	91.7956	2.6268
28.80	29.40	0.60	0.54	90	-	Inclusions of graphite within fractured granite gneiss								
29.40	30.00	0.60	0.53	88	-	Inclusions of graphite within fractured granite gneiss								
30.00	30.60	0.60	0.59	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-20	30.00	31.00	1.00	3.1839	3.8215	91.4553	1.5393
30.60	31.60	1.00	0.82	82	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-21	31.00	32.00	1.00	1.8108	3.9291	92.2108	2.0493
31.60	32.20	0.60	0.49	82	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-22	32.00	33.00	1.00	3.6997	3.7974	90.8994	1.6035
32.20	33.00	0.80	0.65	81	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-23	33.00	33.40	0.40	2.0041	2.9183	93.717	1.3606
33.00	33.40	0.40	0.37	93	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-24	33.40	34.00	0.60	0.29	1.51	97.7	0.5
33.40	34.00	0.60	0.38	63	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-25	34.00	35.00	1.00	5.732	4.0548	88.4037	1.8095
34.00	34.50	0.50	0.43	86	-	Inclusions of graphite within fractured granite gneiss								
34.50	35.00	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss								

35.00	35.55	0.55	0.54	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-26	35.00	36.00	1.00	4.3949	3.9333	89.7445	1.9273
35.55	36.05	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss								
36.05	36.55	0.50	0.43	86	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/06-27	36.00	37.00	1.00	4.3405	4.2444	89.2285	2.1866
36.55	37.05	0.50	0.49	98	-	Inclusions of graphite within hard massive fractured granite gneiss								
37.05	38.00	0.95	0.64	67	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/06-28	37.00	38.00	1.00	4.44	4.48	89.6	1.48
38.00	38.50	0.50	0.49	98	-	Inclusions of graphite within hard massive fractured granite gneiss								
38.50	39.00	0.50	0.48	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/06-29	38.00	39.00	1.00	3.6411	3.0806	92.3776	0.9007
39.00	39.50	0.50	0.47	94	-	0.17-Inclusions of graphite within fractured granite gneiss 0.30-Highly fractured granite gneiss								
39.50	40.00	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-30	39.00	40.00	1.00	2.7128	3.4844	92.6776	1.1252
40.00	40.95	0.95	0.90	95	80	0.40-Inclusions of graphite within fractured granite gneiss 0.20-Highly fractured granite gneiss 0.30-Inclusions of graphite within fractured granite gneiss								
40.95	41.60	0.65	0.59	91	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/06-31	40.00	41.00	1.00	3.71	2.66	92.9	0.73
41.60	42.50	0.90	0.8	89	-	Inclusions of graphite within fractured granite gneiss								
42.50	43.10	0.60	0.54	90	-	0.34-Inclusions of graphite within fractured granite gneiss 0.20-Highly fractured granite gneiss	LPA/G3/06-32	41.00	42.00	1.00	2.61	5.44	90.1	1.85
43.10	43.60	0.50	0.45	90	-	Hard massive fractured granite gneiss	LPA/G3/06-33	42.00	42.85	0.85	1.86	5.63	91.3	1.21
43.60	44.15	0.55	0.5	91	-	Inclusions of graphite within hard massive fractured granite gneiss								
44.15	44.65	0.50	0.4	80	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/06-34	42.85	43.60	0.75	5.88	4.19	88.7	1.23
44.65	45.00	0.35	0.2	57	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/06-35	43.60	44.30	0.70	5.77	4.24	87.9	2.09
							LPA/G3/06-36	44.30	45.00	0.70	5.22	4.52	88.1	2.16
Borehole closed at 45.00 m														

Logged by: Bhupati Kumar Nayak



BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK <u>Detailed Litholog</u>	
Borehole No. :LPA/G3/07	Date of commencement : 09.04.2024
Latitude : 20°05'32.538"	Date of closing : 16.04.2024
Longitude : 83°28'58.792"	Azimuth : 310°
RL of collar (m) : 305.257	Rig No. : DYNA-50-CR-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) : 35.00	Type of drilling: Wet(Tripple tube)
Casing Depth (m) : 8.50	Drilling Agency : Mining Associates Private Limited

DRILL RUN DETAILS						Rock Description	SAMPLE DETAILS				CHEMICAL ANALYSIS RESULTS			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	1.00	1.00	0.00	0	-	sludge	LPA/G3/07-01	1.50	5.50	4.00	1.47	4.02	92.45	2.07
1.00	1.50	0.50	0.00	0	-	sludge								
1.50	2.00	0.50	0.36	72	-	Highly weathered granite gneiss								
2.00	2.50	0.50	0.28	56	-	Highly weathered granite gneiss								
2.50	3.00	0.50	0.25	50	-	Highly weathered granite gneiss								
3.00	3.50	0.50	0.43	86	-	Highly weathered granite gneiss								
3.50	4.00	0.50	0.45	90	-	Highly weathered granite gneiss								
4.00	4.50	0.50	0.46	92	-	Highly weathered granite gneiss								
4.50	5.00	0.50	0.42	84	-	Highly weathered and fractured granite gneiss								
5.00	5.50	0.50	0.47	94	-	Highly fractured granite gneiss								
5.50	6.50	1.00	0.93	93	85	Highly fractured granite gneiss	LPA/G3/07-02	5.50	7.00	1.50	0.43	3.11	94.90	1.56
6.50	7.00	0.50	0.44	88	-	Highly weathered granite gneiss	LPA/G3/07-03	7.00	8.00	1.00	0.35	3.75	93.74	2.16
7.00	7.50	0.50	0.43	86	-	Weathered granite gneiss								
7.50	8.00	0.50	0.44	88	-	Weathered granite gneiss	LPA/G3/07-04	8.00	9.00	1.00	1.93	3.89	90.27	3.91
8.00	8.50	0.50	0.45	90	-	Inclusion of graphite in weathered granite gneiss								
8.50	9.00	0.50	0.39	78	-	Inclusion of graphite in weathered granite gneiss	LPA/G3/07-05	9.00	10.10	1.10	0.85	2.29	96.06	0.80
9.00	9.60	0.60	0.56	93	-	Hard massive fractured granite gneiss								
9.60	10.10	0.50	0.45	90	-	Hard massive highly fractured granite gneiss	LPA/G3/07-06	10.10	10.60	0.50	2.39	5.03	89.31	3.27
10.10	10.60	0.50	0.45	90	-	Inclusion of graphite within fracture granite gneiss								
10.60	11.10	0.50	0.43	86	-	Hard massive fractured granite gneiss	LPA/G3/07-07	10.60	11.10	0.50	0.52	1.70	96.83	0.95

11.10	11.60	0.50	0.43	86	-	Inclusion of graphite within fracture granite gneiss	LPA/G3/07-08	11.10	12.10	1.00	1.93	2.32	94.32	1.42
11.60	12.10	0.50	0.45	90	-	Inclusion of graphite within fracture granite gneiss								
12.10	12.60	0.50	0.45	90	-	Inclusion of graphite within fractured granite gneiss	LPA/G3/07-09	12.10	13.10	1.00	6.91	3.08	87.75	2.26
12.60	13.10	0.50	0.45	90	-	Inclusion of graphite within fractured granite gneiss								
13.10	13.60	0.50	0.43	86	-	Inclusion of graphite within fractured granite gneiss	LPA/G3/07-10	13.10	14.10	1.00	9.27	3.18	85.85	1.69
13.60	14.10	0.50	0.40	80	-	Inclusion of graphite within fractured granite gneiss								
14.10	14.60	0.50	0.45	90	-	Inclusion of graphite within fractured granite gneiss	LPA/G3/07-11	14.10	15.20	1.10	4.54	5.07	87.60	2.79
14.60	15.10	0.50	0.30	60	-	Inclusion of graphite within fractured granite gneiss								
15.10	15.60	0.50	0.30	60	-	0.10-Inclusion of graphite within fractured granite gneiss 0.20-Fractured granite gneiss	LPA/G3/07-12	15.20	16.10	0.90	0.35	2.55	96.10	1.00
15.60	16.10	0.50	0.25	50	-	Hard massive weathered and fractured granite gneiss								
16.10	16.60	0.50	0.45	90	-	Fractured granite gneiss	LPA/G3/07-13	16.10	17.10		0.50	3.93	94.40	1.17
16.60	17.10	0.50	0.40	80	-	Hard massive fractured granite gneiss				1.00				
17.10	17.60	0.50	0.48	96	-	Inclusion of graphite within fractured granite gneiss	LPA/G3/07-14	17.10	17.60	0.50	1.57	5.80	90.60	2.03
17.60	18.10	0.50	0.49	98	-	Hard massive fractured granite gneiss	LPA/G3/07-15	17.60	18.10	0.50	1.86	4.42	91.40	2.32
18.10	18.60	0.50	0.42	84	-	Inclusion of graphite within fractured granite gneiss	LPA/G3/07-16	18.10	18.80	0.70	4.39	5.08	88.60	1.93
18.60	18.80	0.20	0.16	80	-	Inclusion of graphite within fractured granite gneiss								
18.80	19.30	0.50	0.29	58	-	Highly fractured granite gneiss	LPA/G3/07-17	18.80	19.80	1.00	0.17	1.09	98.00	0.74
19.30	19.80	0.50	0.40	80	-	Hard massive fractured granite gneiss								
19.80	20.40	0.60	0.43	72	-	Hard massive fractured granite gneiss	LPA/G3/07-18	19.80	23.20	3.40	0.01	0.21	99.60	0.18
20.40	20.90	0.50	0.43	86	-	Hard massive fractured granite gneiss								
20.90	21.40	0.50	0.32	64	-	Hard massive fractured granite gneiss								
21.40	22.30	0.90	0.85	94	-	Hard massive fractured granite gneiss								
22.30	22.80	0.50	0.48	96	-	Hard massive fractured granite gneiss								
22.80	23.20	0.40	0.39	98	-	Highly fractured granite gneiss								
23.20	24.20	1.00	0.97	97	-	Hard massive fractured granite gneiss	LPA/G3/07-19	23.20	27.20	4.00	0.01	0.84	98.60	0.55
24.20	25.20	1.00	0.78	78	-	Hard massive granite gneiss								
25.20	25.70	0.50	0.30	60	-	Highly fractured pebbles granite gneiss								
25.70	26.20	0.50	0.20	40	-	Highly fractured granite gneiss								
26.20	27.20	1.00	0.62	62	-	Hard massive highly fractured granite gneiss								
27.20	27.60	0.40	0.30	75	-	Highly fractured granite gneiss	LPA/G3/07-20	27.20	29.50	2.30	0.22	1.33	98.00	0.45
27.60	28.30	0.70	0.68	97	-	Highly fractured granite gneiss								
28.30	29.00	0.70	0.68	97	-	Hard massive fractured granite gneiss								
29.00	30.00	1.00	0.92	92	85	Hard massive fractured granite gneiss								
30.00	31.00	1.00	0.94	94	-	0.50-Hard massive fractured granite gneiss 0.44-Inclusion of graphite within fracture granite gneiss	LPA/G3/07-21	29.50	30.50	1.00	1.06	3.56	94.36	1.02
							LPA/G3/07-22	30.50	31.00	0.50	0.75	4.58	92.75	1.93

31.00	32.00	1.00	0.94	94	-	Inclusion of graphite in hard massive fractured granite gneiss	LPA/G3/07-23	31.00	32.00	1.00	0.73	3.99	93.55	1.73
32.00	33.00	1.00	0.60	60	-	Hard massive fractured granite gneiss	LPA/G3/07-24	32.00	33.00	1.00	1.07	3.70	93.76	1.47
33.00	34.00	1.00	0.50	50	-	Hard massive fractured granite gneiss	LPA/G3/07-25	33.00	35.00	2.00	0.69	4.24	92.85	2.22
34.00	35.00	1.00	0.97	97	-	Hard massive fractured granite gneiss								
Borehole closed at 35.00 m														



**Logged by: Bhupati Kumar Nayak**

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK <u>Detailed Litholog</u>	
Borehole No. :LPA/G3/08	Date of commencement : 05.04.2024
Latitude : 20°05'27.376"	Date of closing : 11.04.2024
Longitude : 83°28'53.65"	Azimuth : 310°
RL of collar (m) : 284.657	Rig No. : DYNA-35-02
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :35.00	Type of drilling: Wet(Tripple tube)
Casing Depth (m) :5.90	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.30	0.30	0.24	80	-	Soil with fractured rock fragments of granite gneiss	LPA/G3/08-01	0.00	1.20	1.20	0.44	6.33	90.00	3.23
0.30	0.70	0.40	0.31	78	-	Soil with fractured rock fragments of granite gneiss								
0.70	1.20	0.50	0.30	60	-	Soil with fractured rock fragments of granite gneiss								
1.20	2.40	1.20	1.07	89	-	Highly weathered granite gneiss	LPA/G3/08-02	1.20	5.20	4.00	0.08	4.91	92.60	2.41
2.40	3.40	1.00	0.68	68	-	Highly weathered granite gneiss								
3.40	4.20	0.80	0.43	54	-	Highly weathered granite gneiss								
4.20	5.20	1.00	0.10	10	-	Weathered granite gneiss								
5.20	5.70	0.50	0.40	80	-	Highly weathered granite gneiss	LPA/G3/08-03	5.20	9.10	3.90	0.06	4.66	93.60	1.68
5.70	6.00	0.30	0.26	87	-	Hard massive fractured granite gneiss								
6.00	6.20	0.20	0.12	60	-	Hard massive fractured granite gneiss								
6.20	7.20	1.00	0.99	99	-	Altered granite gneiss								
7.20	7.80	0.60	0.54	90	-	Altered granite gneiss								
7.80	8.20	0.40	0.33	83	-	Altered granite gneiss								
8.20	8.70	0.50	0.46	92	-	Altered granite gneiss								
8.70	9.10	0.40	0.39	97	-	Altered granite gneiss								
9.10	9.30	0.20	0.14	70	-	Altered granite gneiss	LPA/G3/08-04	9.10	12.90	3.80	0.11	2.81	95.40	1.68
9.30	9.90	0.60	0.48	80	-	Altered granite gneiss								
9.90	10.35	0.45	0.44	98	-	Altered granite gneiss								
10.35	10.85	0.50	0.48	96	-	Altered granite gneiss								
10.85	11.40	0.55	0.54	98	-	Altered granite gneiss								
11.40	11.90	0.50	0.42	84	-	Altered granite gneiss								
11.90	12.90	1.00	0.99	99	-	Hard massive fractured granite gneiss								
12.90	13.90	1.00	0.74	74	-	Hard massive fractured granite gneiss								
13.90	14.40	0.50	0.42	84	-	Hard massive fractured granite gneiss	LPA/G3/08-05	12.90	16.80	3.90	0.03	3.59	93.50	2.88
14.40	15.25	0.85	0.84	99	-	Altered granite gneiss								
15.25	16.20	0.95	0.79	83	-	Hard massive fractured granite gneiss								
16.20	16.80	0.60	0.52	87	-	Hard massive fractured granite gneiss								

16.80	17.80	1.00	0.89	89	-	Altered granite gneiss	LPA/G3/08-06	16.80	20.70	3.90	0.13	2.67	95.40	1.80
17.80	18.80	1.00	0.89	89	-	Hard massive highly fractured granite gneiss								
18.80	19.80	1.00	0.99	99	-	Hard massive highly fractured granite gneiss								
19.80	20.40	0.60	0.40	67	-	Hard massive highly fractured granite gneiss								
20.40	20.70	0.30	0.25	83	-	Hard massive highly fractured granite gneiss								
20.70	21.20	0.50	0.43	86	84	Hard massive highly fractured granite gneiss	LPA/G3/08-07	20.70	24.00	3.30	0.12	2.45	96.00	1.43
21.20	22.20	1.00	0.70	70	-	Altered granite gneiss								
22.20	22.60	0.40	0.39	97	-	Hard massive highly fractured granite gneiss								
22.60	23.10	0.50	0.47	94	-	Hard massive highly fractured granite gneiss								
23.10	24.00	0.90	0.56	62	-	Highly altered granite gneiss								
24.00	24.50	0.50	0	0	-	Core Loss	LPA/G3/08-08	24.00	28.10	4.10	0.12	3.26	94.70	1.92
24.50	24.90	0.40	0.26	65	-	Highly altered granite gneiss								
24.90	25.20	0.30	0.29	97	-	Altered granite gneiss								
25.20	25.80	0.60	0.46	77	-	Highly fractured granite gneiss								
25.80	26.40	0.60	0.49	82	-	Altered granite gneiss								
26.40	26.60	0.20	0.16	80	-	Hard massive highly fractured granite gneiss								
26.60	27.10	0.50	0.29	58	-	Altered granite gneiss								
27.10	27.60	0.50	0.40	80	-	Altered granite gneiss								
27.60	28.10	0.50	0.46	92	-	Highly fractured hard massive granite gneiss								
28.10	29.00	0.90	0.82	91	-	Hard massive highly fractured granite gneiss	LPA/G3/08-09	28.10	32.00	3.90	0.11	3.33	94.20	2.36
29.00	30.00	1.00	0.99	99	-	Altered granite gneiss								
30.00	31.00	1.00	0.80	80	-	Altered granite gneiss								
31.00	32.00	1.00	0.99	99	-	Hard massive highly fractured granite gneiss								
32.00	32.90	0.90	0.58	64	-	Hard massive highly fractured granite gneiss	LPA/G3/08-10	32.00	35.00	3.00	0.35	2.26	95.90	1.49
32.90	34.00	1.10	0.96	87	-	Hard massive highly fractured granite gneiss								
34.00	35.00	1.00	0.97	97	85	Hard massive highly fractured granite gneiss								
Borehole closed at 35.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK	
<u>Detailed Litholog</u>	
Borehole No. :LPA/G3/09	Date of commencement : 08.04.2024
Latitude : 20°05'37.292"	Date of closing : 13.04.2024
Longitude : 83°29'2.782"	Azimuth : 310°
RL of collar (m) : 323.254	Rig No. : DYNA-35-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :35.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) : 6.30	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.23	46	-	Soil with fracture rock fragments of granite gneiss	LPA/G3/09-01	0.00	1.60	1.60	0.99	5.17	91.88	1.96
0.50	1.00	0.50	0.32	64	-	Soil with fracture rock fragments of granite gneiss								
1.00	1.60	0.60	0.59	98	-	Soil with fracture rock fragments of granite gneiss								
1.60	2.10	0.50	0.44	88	-	Highly weathered granite gneiss	LPA/G3/09-02	1.60	5.50	3.90	0.31	4.28	93.66	1.75
2.10	2.60	0.50	0.40	80	-	Highly weathered granite gneiss								
2.60	3.10	0.50	0.43	86	-	Highly weathered granite gneiss								
3.10	3.50	0.40	0.29	73	-	Highly weathered granite gneiss								
3.50	4.00	0.50	0.47	94	-	Highly weathered granite gneiss								
4.00	4.50	0.50	0.49	98	-	Highly weathered granite gneiss								
4.50	5.00	0.50	0.47	94	-	Moderately weathered highly fractured hard massive granite gneiss								
5.00	5.50	0.50	0.46	92	-	Moderately weathered highly fractured hard massive granite gneiss								
5.50	6.50	1.00	0.95	95	-	Moderately weathered highly fractured hard massive granite gneiss	LPA/G3/09-03	5.50	9.50	4.00	0.15	2.09	96.04	1.72
6.50	7.20	0.70	0.64	91	-	Highly fractured hard massive granite gneiss								
7.20	7.70	0.50	0.46	92	-	Highly fractured hard massive granite gneiss								
7.70	8.40	0.70	0.68	97	-	Highly fractured hard massive granite gneiss								
8.40	9.00	0.60	0.42	70	-	Highly fractured hard massive granite gneiss with Inclusions of charnockite								
9.00	9.70	0.70	0.52	74	-	Highly fractured hard massive granite gneiss	LPA/G3/09-04	9.50	13.40	3.90	0.07	1.68	97.48	0.77
9.70	10.00	0.30	0.29	97	-	Hard massive fractured granite gneiss								
10.00	10.30	0.30	0.28	93	-	Hard massive fractured granite gneiss								
10.30	10.70	0.40	0.39	98	-	Hard massive highly fractured granite gneiss								
10.70	11.30	0.60	0.52	87	-	Hard massive fractured granite gneiss								
11.30	11.80	0.50	0.48	96	-	Highly fractured hard massive granite gneiss								
11.80	12.90	1.10	0.99	90	-	Hard massive highly fractured granite gneiss								
12.90	14.40	1.50	1.47	98	85	Moderately weathered granite gneiss	LPA/G3/09-05	13.40	14.40	1.00	0.76	3.94	93.20	2.10

14.40	15.40	1.00	0.87	87	-	Inclusions of graphite within granite gneiss	LPA/G3/09-06	14.40	15.40	1.00	0.65	2.53	95.78	1.04
15.40	16.00	0.60	0.47	78	-	Hard massive fractured granite gneiss	LPA/G3/09-07	15.40	16.50	1.10	0.53	2.69	94.50	2.28
16.00	16.50	0.50	0.42	84	-	Hard massive fractured granite gneiss								
16.50	16.90	0.40	0.20	50	-	Highly fractured hard massive granite gneiss	LPA/G3/09-08	16.50	17.40	0.90	0.50	3.06	93.52	2.92
16.90	17.40	0.50	0.42	84	-	Highly fractured hard massive granite gneiss								
17.40	17.90	0.50	0.48	96	-	Inclusions of graphite within fracture and altered granite gneiss	LPA/G3/09-09	17.40	18.40	1.00	1.30	5.43	88.24	5.02
17.90	18.40	0.50	0.49	98	-	Inclusions of graphite within altered granite gneiss								
18.40	19.00	0.60	0.52	87	-	Inclusions of graphite within granite gneiss with quartz vein.	LPA/G3/09-10	18.40	19.40	1.00	5.00	7.83	84.07	3.10
19.00	19.50	0.50	0.49	98	-	Inclusions of graphite within fracture granite gneiss								
19.50	20.00	0.50	0.48	96	-	Inclusions of graphite within granite gneiss	LPA/G3/09-11	19.40	20.40	1.00	1.19	3.63	92.56	2.62
20.00	21.00	1.00	0.97	97	-	Inclusions of graphite within fracture granite gneiss	LPA/G3/09-12	20.40	21.40	1.00	1.63	4.93	90.48	2.96
21.00	21.90	0.90	0.82	91	-	Inclusions of graphite within fracture and altered granite gneiss	LPA/G3/09-13	21.40	22.40	1.00	1.89	5.85	87.65	4.62
21.90	22.90	1.00	0.99	99	-	0.50-Inclusions of graphite within granite gneiss, 0.49-Hard massive fractured granite gneiss	LPA/G3/09-14	22.40	23.40	1.00	0.09	0.66	98.81	0.44
22.90	23.40	0.50	0.49	98	-	Hard massive granite gneiss								
23.40	24.10	0.70	0.69	99	-	Hard massive fractured granite gneiss								
24.10	24.80	0.70	0.67	96	-	Hard massive fractured granite gneiss	LPA/G3/09-15	23.40	27.00	3.60	0.06	0.02	99.75	0.17
24.80	26.30	1.50	1.47	98	85	Hard massive fractured granite gneiss								
26.30	27.70	1.40	1.38	99	-	Hard massive fractured granite gneiss								
27.70	29.20	1.50	1.47	98	-	Hard massive granite gneiss	LPA/G3/09-16	27.00	31.00	4.00	0.09	0.13	99.70	0.08
29.20	30.00	0.80	0.79	99	-	Hard massive granite gneiss								
30.00	31.50	1.50	1.40	93	-	Hard massive granite gneiss								
31.50	33.00	1.50	1.48	99	-	Hard massive granite gneiss	LPA/G3/09-17	31.00	35.00	4.00	0.04	1.08	98.59	0.28
33.00	34.00	1.00	0.99	99	84	Hard massive granite gneiss								
34.00	35.00	1.00	0.99	99	-	Hard massive granite gneiss								
Borehole closed at 35.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK	
<u>Detailed Litholog</u>	
Borehole No. :LPA/G3/10	Date of commencement : 21.02.2024
Latitude : 20°04'54.364"	Date of closing : 05.04.2024
Longitude : 83°29'22.780"	Azimuth : 310°
RL of collar (m) : 316.993	Rig No. : DYNA-50H-01
Inclination angle of borehole : 50°	Size of core: HQ3
Total Depth (m) :115.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) : 3.00	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.21	42	-	Brown to black soil with rock fragments of granite gneiss	LPA/G3/10-01	0.00	1.30	1.30	0.57	8.14	88.40	2.89
0.50	0.80	0.30	0.28	93	-	Brown to black soil								
0.80	1.30	0.50	0.46	92	-	Brown to black soil with rock fragments of granite gneiss								
1.30	1.80	0.50	0.46	92	-	Brown soil	LPA/G3/10-02	1.30	2.30	1.00	0.40	8.15	86.00	5.45
1.80	2.30	0.50	0.47	94	-	Brown soil with rock fragments of granite gneiss								
2.30	2.80	0.50	0.46	92	-	Highly weathered granite gneiss with graphite inclusions	LPA/G3/10-03	2.30	3.20	0.90	3.77	5.34	89.40	1.49
2.80	3.80	1.00	0.92	92	-	0.40- Graphite inclusions within moderately hard granite gneiss 0.42- Highly fractutre charnockite	LPA/G3/10-04	3.20	4.30	1.10	0.14	3.90	92.80	3.16
3.80	4.30	0.50	0.48	96	-	Hard massive fractured charnockite								
4.30	5.30	1.00	0.74	74	-	Hard massive fractured charnockite	LPA/G3/10-05	4.30	5.55	1.25	0.05	0.15	99.20	0.60
5.30	6.30	1.00	0.81	81	80	0.25-Hard massive fractured charnockite 0.56-Hard massive fractured granite gneiss with minor graphite inclusions								
6.30	6.80	0.50	0.43	86	-	Hard massive highly fractured charnockite	LPA/G3/10-07	6.30	7.20	0.90	0.05	2.93	94.90	2.12
6.80	7.30	0.50	0.49	98	-	0.39-Hard massive highly fractured charnockite 0.10-Granite gneiss with inclusions of graphite								
7.30	7.80	0.50	0.48	96	-	Graphite inclusions in hard massive granite gneiss	LPA/G3/10-08	7.20	8.20	1.00	7.36	4.14	86.20	2.30
7.80	8.30	0.50	0.47	94	-	Graphite inclusions in hard massive granite gneiss								
8.30	8.80	0.50	0.46	92	-	Graphite mineralisation within hard massive fracture granite gneiss	LPA/G3/10-09	8.20	9.20	1.00	5.61	6.72	84.50	3.17
8.80	9.80	1.00	0.98	98	-	Graphite mineralisation within hard massive granite gneiss								
9.80	10.80	1.00	0.98	98	-	Graphite mineralisation within hard massive granite gneiss	LPA/G3/10-10	9.20	10.20	1.00	4.52	5.43	87.20	2.85
10.80	11.80	1.00	0.98	98	-	Hard massive fractured granite gneiss								
11.80	12.30	0.50	0.48	96	-	Hard massive fractured granite gneiss	LPA/G3/10-12	10.80	11.80	1.00	2.02	2.70	94.10	1.18
12.30	12.80	0.50	0.37	74	-	Hard massive fractured granite gneiss	LPA/G3/10-13	11.80	13.30	1.50	1.45	2.73	94.70	1.12



12.80	13.80	1.00	0.86	86	-	0.46-Hard massive fractured granite gneiss 0.40-Graphite inclusions within hard massive granite gneiss								
							LPA/G3/10-14	13.30	14.30	1.00	4.42	5.16	87.70	2.72
13.80	14.70	0.90	0.89	99	-	Graphite inclusions within hard massive granite gneiss								
							LPA/G3/10-15	14.30	15.30	1.00	3.98	5.76	87.20	3.06
14.70	15.80	1.10	1.05	95	-	Graphite inclusions within hard massive granite gneiss								
							LPA/G3/10-16	15.30	15.80	0.50	2.68	4.51	91.00	1.81
15.80	16.50	0.70	0.68	97	-	Hard massive fractured charnockite								
							LPA/G3/10-17	15.80	16.80	1.00	2.33	2.72	93.90	1.05
16.50	18.00	1.50	1.48	99	-	Hard massive fractured charnockite								
							LPA/G3/10-18	16.80	19.80	3.00	0.43	0.73	98.40	0.44
18.00	19.50	1.50	1.49	99	79	Hard massive fractured charnockite								
19.50	21.00	1.50	1.47	98	-	Hard massive fractured charnockite								
							LPA/G3/10-19	19.80	22.80	3.00	1.10	1.96	96.20	0.74
21.00	22.50	1.50	1.48	99	-	Hard massive fractured charnockite								
							LPA/G3/10-20	22.80	23.80	1.00	2.43	2.79	93.46	1.32
22.50	23.50	1.00	0.98	98	-	Hard massive fractured charnockite								
							LPA/G3/10-21	23.80	24.80	1.00	3.10	3.57	91.46	1.87
23.50	24.50	1.00	0.99	99	-	0.30-Altered charnockite 0.69-Graphite mineralisation within hard massive granite gneiss								
							LPA/G3/10-22	24.80	25.80	1.00	4.47	3.18	91.22	1.13
24.50	25.50	1.00	0.98	98	-	Inclusions of graphite within hard massive highly fractured granite gneiss and partially altered bottom part								
							LPA/G3/10-23	25.80	26.50	0.70	7.40	3.36	88.02	1.21
25.50	26.50	1.00	0.95	95	-	Inclusions of graphite within hard massive highly fractured granite gneiss								
							LPA/G3/10-24	26.50	27.50	1.00	5.81	3.34	89.62	1.22
26.50	27.50	1.00	0.98	98	-	Hard massive highly fractured granite gneiss								
							LPA/G3/10-25	27.50	28.50	1.00	1.89	2.72	94.70	0.70
27.50	28.70	1.20	1.12	93	-	Inclusions of graphite within hard massive highly fractured granite gneiss								
							LPA/G3/10-26	28.50	29.50	1.00	5.19	3.61	90.01	1.19
28.70	30.00	1.30	1.26	97	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/10-27	29.50	30.50	1.00	1.95	2.90	94.37	0.78
30.00	30.50	0.50	0.48	96	-	Inclusions of graphite within hard massive highly fractured granite gneiss								
							LPA/G3/10-28	30.50	31.50	1.00	3.78	3.41	90.82	1.99
30.50	31.60	1.10	1.08	98	-	Inclusions of graphite within hard massive fractured granite gneiss								
							LPA/G3/10-29	31.50	32.50	1.00	1.66	7.00	89.07	2.27
31.60	32.60	1.00	0.97	97	-	Inclusions of graphite within hard massive highly fractured granite gneiss								
							LPA/G3/10-30	32.50	33.50	1.00	2.99	3.71	92.15	1.15
32.60	33.50	0.90	0.85	94	-	Inclusions of graphite within hard massive highly fractured granite gneiss								
							LPA/G3/10-31	33.50	34.50	1.00	1.58	1.87	95.96	0.60
33.50	34.50	1.00	0.98	98	80	0.68-Inclusions of graphite within hard massive granite gneiss 0.30- Hard massive fracture granite gneiss								
							LPA/G3/10-32	34.50	35.50	1.00	0.23	0.72	98.58	0.46
34.50	35.50	1.00	0.97	97	-	Hard massive granite gneiss								
							LPA/G3/10-33	35.50	36.50	1.00	6.32	3.34	89.52	0.82
35.50	36.50	1.00	0.85	85	-	Inclusions of graphite within hard massive granite gneiss								
							LPA/G3/10-34	36.50	37.10	0.60	4.36	2.63	92.24	0.77
36.50	37.50	1.00	0.97	97	-	0.60-Inclusions of graphite within hard massive granite gneiss 0.57-Hard massive granite gneiss								
							LPA/G3/10-35	37.10	38.10	1.00	0.31	0.13	99.42	0.14
37.50	38.10	0.60	0.55	92	-	Hard massive granite gneiss								

38.10	39.10	1.00	0.98	98	-	Hard massive granite gneiss	LPA/G3/10-36	38.10	39.10	1.00	0.67	0.46	98.72	0.15
39.10	40.00	0.90	0.87	97	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch	LPA/G3/10-37	39.10	40.10	1.00	6.74	3.44	89.34	0.48
40.00	41.00	1.00	0.96	96	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch	LPA/G3/10-38	40.10	41.10	1.00	8.28	2.71	88.52	0.50
41.00	42.00	1.00	0.95	95	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch	LPA/G3/10-39	41.10	42.10	1.00	8.94	2.43	88.28	0.35
42.00	42.30	0.30	0.28	93	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch	LPA/G3/10-40	42.10	43.10	1.00	7.41	2.49	89.72	0.39
42.30	43.30	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-41	43.10	44.10	1.00	8.99	2.50	88.02	0.50
43.30	43.80	0.50	0.47	94	-	Inclusions of graphite within hard massive granite gneiss								
43.80	45.00	1.20	1.17	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-42	44.10	45.10	1.00	8.12	3.15	88.26	0.48
45.00	46.00	1.00	0.99	99	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-43	45.10	46.10	1.00	6.76	2.84	89.98	0.41
46.00	46.50	0.50	0.44	88	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-44	46.10	47.10	1.00	7.44	2.79	89.13	0.64
46.50	47.10	0.60	0.55	92	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-45	47.10	48.10	1.00	4.74	2.26	92.46	0.54
47.10	48.10	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss								
48.10	49.10	1.00	0.98	98	80	0.50-Inclusions of graphite within hard massive granite gneiss, 0.48-Altered granite gneiss in the fracture zone	LPA/G3/10-46	48.10	49.10	1.00	3.20	7.17	88.25	1.38
49.10	50.00	0.90	0.87	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-47	49.10	50.10	1.00	6.94	5.00	87.21	0.85
50.00	51.00	1.00	0.99	99	-	0.89-Inclusions of graphite within hard massive granite gneiss 0.10- Hard massive granite gneiss	LPA/G3/10-48	50.10	51.10	1.00	7.70	2.44	89.31	0.55
51.00	52.00	1.00	0.99	99	-	0.50- Hard massive granite gneiss 0.49-Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-49	51.10	52.10	1.00	4.53	1.80	93.14	0.52
52.00	53.00	1.00	0.99	99	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-50	52.10	53.10	1.00	8.77	3.44	86.89	0.90
53.00	54.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-51	53.10	54.10	1.00	7.13	5.13	85.70	2.04
54.00	55.00	1.00	0.99	99	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-52	54.10	55.10	1.00	6.67	4.77	86.80	1.76
55.00	56.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-53	55.10	56.10	1.00	2.76	3.21	92.90	1.13
56.00	57.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-54	56.10	57.10	1.00	5.89	5.15	87.10	1.86
57.00	58.00	1.00	0.96	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-55	57.10	58.10	1.00	6.42	5.13	86.40	2.05
58.00	59.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss								

59.00	60.00	1.00	0.98	98	79	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-56	58.10	59.10	1.00	6.59	4.16	87.60	1.65
60.00	61.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-57	59.10	60.10	1.00	4.55	2.90	91.70	0.85
61.00	62.00	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-58	60.10	61.10	1.00	6.04	2.86	90.30	0.80
62.00	63.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-59	61.10	62.10	1.00	7.95	3.66	87.30	1.09
63.00	64.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-60	62.10	63.10	1.00	6.43	3.52	89.20	0.85
64.00	65.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-61	63.10	64.10	1.00	6.27	4.41	88.60	0.72
65.00	66.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-62	64.10	65.10	1.00	6.67	4.78	87.20	1.35
66.00	67.00	1.00	0.98	98	80	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-63	65.10	67.10	2.00	7.04	4.55	87.20	1.21
67.00	68.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch	LPA/G3/10-64	67.10	68.10	1.00	7.55	4.56	86.60	1.29
68.00	69.00	1.00	0.99	99	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch	LPA/G3/10-65	68.10	69.20	1.10	6.82	5.03	86.90	1.25
69.00	70.00	1.00	0.97	97	-	0.20-Inclusions of graphite within hard massive granite gneiss 0.70- Hard massive granite gneiss	LPA/G3/10-66	69.20	70.50	1.30	0.95	1.66	97.10	0.29
70.00	70.50	0.50	0.49	98	-	Hard massive granite gneiss	LPA/G3/10-67	70.50	71.50	1.00	4.79	2.19	92.80	0.22
70.50	71.00	0.50	0.49	98	-	0.10-Hard massive granite gneiss 0.39-Inclusions of graphite within hard massive granite gneiss								
71.00	72.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-68	71.50	72.50	1.00	11.47	3.79	84.00	0.74
72.00	73.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-69	72.50	73.50	1.00	7.92	3.13	88.08	0.87
73.00	74.00	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-70	73.50	74.50	1.00	13.10	3.55	81.52	1.83
74.00	75.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-71	74.50	75.50	1.00	10.87	3.30	84.94	0.89
75.00	75.50	0.50	0.47	94	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-72	75.50	76.50	1.00	7.94	3.70	87.22	1.13
75.50	77.00	1.50	1.43	95	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-73	76.50	77.50	1.00	7.70	2.57	89.03	0.70
77.00	78.50	1.50	1.49	99	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-74	77.50	78.50	1.00	8.92	2.18	88.52	0.37
78.50	79.50	1.00	0.99	99	78	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-75	78.50	79.50	1.00	9.66	2.46	87.00	0.88

79.50	80.00	0.50	0.42	84	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-76	79.50	80.50	1.00	8.19	2.36	88.94	0.51
80.00	81.50	1.50	1.49	99	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-77	80.50	81.50	1.00	7.06	2.37	89.87	0.69
81.50	83.00	1.50	1.49	99	-	Inclusions of graphite within hard massive fracture granite gneiss	LPA/G3/10-78	81.50	82.50	1.00	6.70	1.28	91.62	0.39
83.00	84.50	1.50	1.49	99	-	Inclusions of graphite within hard massive fracture granite gneiss with sulphide patch in fracture zone	LPA/G3/10-79	82.50	83.50	1.00	9.66	1.25	88.77	0.32
84.50	85.00	0.50	0.49	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-80	83.50	84.50	1.00	5.63	1.36	92.68	0.34
85.00	86.50	1.50	1.47	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-81	84.50	85.50	1.00	5.92	1.33	92.38	0.37
86.50	87.50	1.00	0.93	93	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-82	85.50	86.50	1.00	7.22	1.08	91.56	0.14
87.50	88.50	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-83	86.50	87.50	1.00	6.12	0.91	92.79	0.18
88.50	89.30	0.80	0.77	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-84	87.50	88.50	1.00	6.48	0.87	92.54	0.11
89.30	90.00	0.70	0.65	93	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-85	88.50	89.50	1.00	6.06	1.07	92.71	0.16
90.00	91.00	1.00	0.95	95	80	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-86	89.50	90.50	1.00	4.68	0.67	94.61	0.04
91.00	92.00	1.00	0.97	97	-	Inclusions of graphite within hard massive fracture granite gneiss	LPA/G3/10-87	90.50	91.50	1.00	5.75	2.15	91.60	0.50
92.00	93.50	1.50	1.44	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-88	91.50	92.50	1.00	5.24	3.87	89.60	1.29
93.50	94.00	0.50	0.44	88	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-89	92.50	93.50	1.00	5.36	2.26	91.80	0.58
94.00	95.00	1.00	0.95	95	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-90	93.50	94.50	1.00	5.67	1.55	92.60	0.18
95.00	96.00	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-91	94.50	95.50	1.00	6.26	1.23	92.40	0.11
96.00	97.00	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-92	95.50	96.50	1.00	6.69	1.62	91.40	0.29
97.00	97.50	0.50	0.45	90	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-93	96.50	97.50	1.00	4.47	3.27	91.50	0.76
97.50	99.00	1.50	1.45	97	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-94	97.50	98.50	1.00	6.03	3.39	89.70	0.88
99.00	99.50	0.50	0.48	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-95	98.50	99.50	1.00	7.46	4.33	86.60	1.61
99.50	100.50	1.00	0.96	96	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-96	99.50	100.50	1.00	12.94	3.23	83.20	0.63
100.50	101.50	1.00	0.96	96	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-97	100.50	101.50	1.00	8.94	3.43	87.00	0.63
101.50	102.50	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-98	101.50	102.50	1.00	9.68	3.13	86.60	0.59

102.50	103.00	0.50	0.44	88	79	Inclusions of graphite within hard massive granite gneiss	LPA/G3/10-99	102.50	103.50	1.00	12.31	3.44	83.60	0.65
103.00	104.00	1.00	0.98	98	-	Inclusions of graphite within hard massive granite gneiss								
104.00	105.00	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss with sulphide patch in fracture zone	LPA/G3/10-100	103.50	104.50	1.00	10.40	3.94	84.90	0.76
105.00	106.00	1.00	0.97	97	-	Graphite Inclusions within hard massive granite gneiss	LPA/G3/10-101	104.50	105.50	1.00	10.60	3.42	85.20	0.78
106.00	107.00	1.00	0.98	98	-	Graphite inclusions within hard massive granite gneiss	LPA/G3/10-102	105.50	106.50	1.00	6.73	2.57	90.30	0.40
107.00	108.00	1.00	0.99	99	-	Graphite inclusions within hard massive fracture granite gneiss also some thin quartz veins present in fracture zones	LPA/G3/10-103	106.50	107.50	1.00	6.63	4.67	87.50	1.20
108.00	109.00	1.00	0.97	97	-	Inclusions of graphite within hard massive granite gneiss with some quartz vein and sulphide patch in fracture zone	LPA/G3/10-104	107.50	108.50	1.00	6.15	4.01	88.50	1.34
109.00	110.00	1.00	0.98	98	-	Hard massive fractured granite gneiss	LPA/G3/10-105	108.50	109.00	0.50	3.06	3.42	92.20	1.32
110.00	111.00	1.00	0.99	99	-	Hard massive fractured granite gneiss	LPA/G3/10-106	109.00	110.00	1.00	0.11	1.13	98.10	0.66
111.00	111.50	0.50	0.47	94	-	Hard massive granite gneiss with sulphide in different part	LPA/G3/10-107	110.00	112.20	2.20	0.16	0.86	98.60	0.38
111.50	112.20	0.70	0.68	97	-	Hard massive fractured granite gneiss with some sulfide and thin quartz vein in the fracture zone								
112.20	113.70	1.50	1.49	99	-	Hard massive highly fractured granite gneiss quartz vein present in fracture zone	LPA/G3/10-108	112.20	115.00	2.80	2.31	3.00	93.80	0.89
113.70	115.00	1.30	1.28	98	80	Hard massive granite gneiss								
Borehole closed at 115.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK	
Detailed Litholog	
Borehole No. :LPA/G3/11	Date of commencement : 15.04.2024
Latitude : 20°05'33.292"	Date of closing : 01.05.2024
Longitude : 83°29'07.649"	Azimuth : 310°
RL of collar (m) : 369.934	Rig No. : DYNA-35-01
Inclination angle of borehole : 55°	Size of core: HQ3 and NQ3
Total Depth (m) :77.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) :22.00	Drilling Agency : Mining Associates Private Limited

DRILL RUN DETAILS						Rock Description	SAMPLE DETAILS				CHEMICAL ANALYSIS RESULTS			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.16	32	-	Soil	LPA/G3/11-01	0.00	3.20	3.20	0.07	6.09	89.96	3.88
0.50	1.00	0.50	0.17	34	-	Soil with rock fragments of granite gneiss								
1.00	1.40	0.40	0.32	80	-	Soil with rock fragments of granite gneiss								
1.40	2.00	0.60	0.20	33	-	Soil with rock fragments of granite gneiss								
2.00	2.60	0.60	0.19	32	-	Soil with fractured rock fragments at bottom part								
2.60	3.20	0.60	0.42	70	-	Soil with rock fragments of granite gneiss								
3.20	3.60	0.40	0.39	98	-	0.10- Fractured rock fragments of granite gneiss 0.29- Altered granite gneiss	LPA/G3/11-02	3.20	6.70	3.50	0.19	1.00	97.87	0.94
3.60	4.30	0.70	0.48	69	-	Hard massive highly fractured granite gneiss								
4.30	4.80	0.50	0.45	90	-	Hard massive highly fractured granite gneiss								
4.80	5.30	0.50	0.44	88	-	Highly fractured and altered granite gneiss								
5.30	5.80	0.50	0.48	96	-	Hard massive fractured granite gneiss with thin quartz vein intrusion along the fractured zone								
5.80	6.30	0.50	0.45	90	-	Hard massive highly fractured granite gneiss								
6.30	6.70	0.40	0.37	92	-	Hard massive highly fractured granite gneiss with thin quartz vein along the fractured zone	LPA/G3/11-03	6.70	10.70	4.00	0.21	4.27	93.34	2.17
6.70	7.30	0.60	0.50	83	-	Hard massive highly fractured granite gneiss								
7.30	7.50	0.20	0.19	95	-	Highly fractured granite gneiss								
7.50	8.50	1.00	0.60	60	-	Altered granite gneiss								
8.50	9.00	0.50	0.44	88	-	Altered granite gneiss								
9.00	9.50	0.50	0.37	74	-	Altered granite gneiss								
9.50	10.20	0.70	0.60	86	-	Hard massive Highly fractured granite gneiss	LPA/G3/11-04	10.70	14.70	4.00	0.05	1.29	96.92	1.74
10.20	10.70	0.50	0.43	86	-	0.30- Altered granite gneiss 0.13- Hard massive fractured granite gneiss								
10.70	11.20	0.50	0.49	98	-	Hard massive fractured granite gneiss								
11.20	11.90	0.70	0.69	99	-	Hard massive fractured granite gneiss								
11.90	12.80	0.90	0.78	87	-	0.30-Altered granite gneiss 0.40-Hard massive fractured granite gneiss 0.08-Altered granite gneiss								
12.80	13.30	0.50	0.48	96	-	Hard massive fractured granite gneiss								
13.30	14.30	1.00	0.88	88	-	Altered and highly fractured granite gneiss								
14.30	14.70	0.40	0.39	98	-	Hard massive highly fractured granite gneiss								



37.40	38.80	1.40	1.35	96	-	Hard massive granite gneiss with thin quartz vein	LPA/G3/11-20	37.40	40.30	2.90	0.25	0.21	99.47	0.07
38.80	40.30	1.50	1.47	98	-	Hard massive fractured micaceous granite gneiss								
40.30	41.60	1.30	1.07	82	-	Hard massive fractured garnetiferous granite gneiss with thin quartz vein in fractured zone	LPA/G3/11-21	40.30	42.10	1.80	0.25	0.97	98.30	0.48
41.60	43.10	1.50	1.48	99	-	Hard massive garnetiferous granite gneiss	LPA/G3/11-22	42.10	43.10	1.00	0.63	0.21	98.93	0.24
43.10	44.50	1.40	1.39	99	75	Graphite inclusions in granite gneiss	LPA/G3/11-23	43.10	44.10	1.00	3.30	0.92	95.62	0.16
44.50	45.00	0.50	0.49	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/11-24	44.10	45.10	1.00	2.66	1.35	95.70	0.29
45.00	46.20	1.20	1.17	97	-	0.62-Graphite inclusions in hard massive granite gneiss 0.55-Hard massive granite gneiss	LPA/G3/11-25	45.10	45.60	0.50	4.11	1.22	94.59	0.08
46.20	47.20	1.00	0.91	91	-	Hard massive highly fractured granite gneiss with some pyrite mineralization	LPA/G3/11-26	45.60	46.70	1.10	0.36	0.31	99.00	0.33
47.20	48.40	1.20	1.18	98	-	0.65- Hrad massive granitiferous granite gneiss 0.53- Minor graphite inclusions in granite gneiss	LPA/G3/11-27	46.70	47.80	1.10	0.67	0.72	98.41	0.20
48.40	49.90	1.50	1.46	97	-	Inclusions of graphite within hard massive garnetiferous granite gneiss also some pyrite in the fractured zone	LPA/G3/11-28	47.80	48.80	1.00	2.09	1.65	96.06	0.20
49.90	51.40	1.50	1.48	99	73	Inclusions of graphite within hard massive granite gneiss	LPA/G3/11-29	48.80	49.80	1.00	0.88	1.16	97.50	0.46
51.40	52.90	1.50	1.48	99	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/11-30	49.80	50.80	1.00	2.30	2.28	94.71	0.71
52.90	53.40	0.50	0.45	90	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-31	50.80	51.80	1.00	1.92	2.02	95.28	0.78
53.40	54.50	1.10	0.99	90	-	Hard massive fractured granite gneiss	LPA/G3/11-32	51.80	52.80	1.00	6.77	2.25	89.63	1.35
54.50	55.00	0.50	0.49	98	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-33	52.80	53.40	0.60	1.45	1.33	96.59	0.62
55.00	56.00	1.00	0.97	97	-	0.30-Inclusions of graphite within hard massive fractured granite gneiss 0.67- hard massive fractured granite gneiss	LPA/G3/11-34	53.40	54.50	1.10	0.93	0.58	98.20	0.29
56.00	56.40	0.40	0.38	95	-	Hard massive fractured granite gneiss	LPA/G3/11-35	54.50	55.30	0.80	4.04	1.93	93.11	0.91
56.40	57.10	0.70	0.59	84	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-36	55.30	56.40	1.10	0.40	0.51	98.86	0.24
57.10	57.60	0.50	0.44	88	-	Inclusions of graphite in hard massive granite gneiss	LPA/G3/11-37	56.40	57.40	1.00	4.92	2.10	91.31	1.67
57.60	58.10	0.50	0.48	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-38	57.40	58.40	1.00	1.67	1.93	95.30	1.10
58.10	58.60	0.50	0.48	96	75	Inclusions of graphite in granite gneiss	LPA/G3/11-39	58.40	59.40	1.00	3.19	1.94	93.90	0.97
58.60	58.90	0.30	0.25	83	-	Inclusions of graphite in hard massive fractured granite gneiss								
58.90	59.50	0.60	0.55	92	-	Inclusions of graphite in hard massive granite gneiss								
59.50	60.00	0.50	0.42	84	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-40	59.40	60.40	1.00	1.67	1.80	95.70	0.83
60.00	61.00	1.00	0.95	95	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-41	60.40	61.40	1.00	1.59	2.07	95.40	0.94



61.00	62.00	1.00	0.98	98	-	Graphite Flakes in hard massive granite gneiss with some pyrite along the foliation	LPA/G3/11-42	61.40	62.40	1.00	0.96	2.65	95.60	0.79
62.00	63.00	1.00	0.95	95	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-43	62.40	63.40	1.00	1.66	1.67	96.00	0.67
63.00	63.50	0.50	0.47	94	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-44	63.40	64.40	1.00	1.12	1.28	97.10	0.50
63.50	64.00	0.50	0.45	90	-	Inclusions of graphite within hard massive fractured granite gneiss								
64.00	64.50	0.50	0.47	94	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-45	64.40	65.40	1.00	3.52	2.50	92.90	1.08
64.50	65.00	0.50	0.44	88	-	Inclusions of graphite in hard massive fractured granite gneiss								
65.00	65.50	0.50	0.48	96	-	Inclusions of graphite in hard massive highly fractured granite gneiss	LPA/G3/11-46	65.40	66.40	1.00	3.77	2.70	91.90	1.63
65.50	66.00	0.50	0.43	86	-	Inclusions of graphite within hard massive fractured granite gneiss								
66.00	66.50	0.50	0.42	84	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-47	66.40	67.40	1.00	3.15	3.40	91.60	1.85
66.50	67.00	0.50	0.45	90	-	Inclusions of graphite within hard massive fractured granite gneiss								
67.00	67.50	0.50	0.43	86	74	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-48	67.40	68.10	0.70	1.36	3.43	93.80	1.41
67.50	68.10	0.60	0.55	92	-	Inclusions of graphite within hard massive highly fractured granite gneiss								
68.10	68.70	0.60	0.55	92	-	Hard massive highly granite gneiss	LPA/G3/11-49	68.10	68.70	0.60	0.08	0.26	99.40	0.26
68.70	69.40	0.70	0.67	96	-	Inclusions of graphite within hard massive highly fractured granite gneiss	LPA/G3/11-50	68.70	69.70	1.00	0.67	2.06	96.30	0.97
69.40	70.00	0.60	0.57	95	-	Inclusions graphite within hard massive granite gneiss	LPA/G3/11-51	69.70	70.70	1.00	1.74	4.38	92.60	1.28
70.00	71.00	1.00	0.98	98	-	Inclusions graphite within hard massive granite gneiss with a few pyrite along foliation	LPA/G3/11-52	70.70	71.70	1.00	1.91	3.92	93.00	1.17
71.00	71.50	0.50	0.45	90	-	Inclusions of graphite in hard massive granite gneiss								
71.50	72.50	1.00	0.95	95	-	Inclusions of graphite within hard massive highly fractured granite gneiss	LPA/G3/11-53	71.70	72.80	1.10	2.53	4.02	92.10	1.35
72.50	73.00	0.50	0.48	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/11-54	72.80	73.90	1.10	3.43	2.78	92.50	1.29
73.00	74.00	1.00	0.93	93	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/11-55	73.90	75.00	1.10	1.43	3.83	93.30	1.44
74.00	74.50	0.50	0.48	96	-	Inclusions of graphite within hard massive granite gneiss								
74.50	75.00	0.50	0.48	96	75	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/11-56	75.00	76.00	1.00	2.04	4.62	91.10	2.24
75.00	76.00	1.00	0.98	98	-	Hard massive fractured granite gneiss								
76.00	77.00	1.00	0.68	68	-	Hard massive fractured granite gneiss with a few pyrite along foliation	LPA/G3/11-57	76.00	77.00	1.00	2.76	5.79	89.50	1.95
Borehole closed at 77.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK Detailed Litholog	
Borehole No. :LPA/G3/12	Date of commencement : 20.04.2024
Latitude : 20°05'30.433"	Date of closing : 02.05.2024
Longitude : 83°29'01.417"	Azimuth : 310°
RL of collar (m) : 353.179	Rig No. : DYNA-35-02
Inclination angle of borehole : 60°	Size of core: HQ3
Total Depth (m) :62.00	Type of drilling: Wet(Tripplle tube)
Casing Depth (m) :3.00	Drilling Agency : Mining Associates Private Limited

DRILL RUN DETAILS						Rock Description	SAMPLE DETAILS				CHEMICAL ANALYSIS RESULTS			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.70	0.70	0.28	40	-	Top soil with debris of granite gneiss	LPA/G3/12-01	0.00	2.70	2.70	0.24	3.92	93.84	2.00
0.70	1.20	0.50	0.35	70	-	Soil with debris of granite gneiss								
1.20	1.70	0.50	0.40	80	-	Soil with debris of granite gneiss								
1.70	2.20	0.50	0.31	62	-	Soil with debris of granite gneiss								
2.20	2.70	0.50	0.48	96	-	Soil with debris of granite gneiss								
2.70	3.20	0.50	0.31	62	-	Weathered granite gneiss	LPA/G3/12-02	2.70	5.10	2.40	0.25	2.44	95.25	2.06
3.20	3.70	0.50	0.36	72	-	Weathered granite gneiss								
3.70	4.00	0.30	0.27	90	-	Debris of granite gneiss								
4.00	4.60	0.60	0.58	97	-	Debris of granite gneiss								
4.60	5.10	0.50	0.44	88	-	Weathered granite gneiss								
5.10	5.60	0.50	0.48	96	-	Hard massive fractured granite gneiss	LPA/G3/12-03	5.10	7.70	2.60	0.40	0.93	97.88	0.79
5.60	6.20	0.60	0.56	93	-	Hard massive fractured granite gneiss								
6.20	7.00	0.80	0.60	75	-	Hard massive fractured granite gneiss with quartz vein								
7.00	7.50	0.50	0.44	88	-	Hard massive fractured granite gneiss								
7.50	8.00	0.50	0.49	98	-	0.20-Hard massive fractured granite gneiss, 0.29-charnockite	LPA/G3/12-04	7.70	8.10	0.40	0.24	0.30	99.15	0.31
8.00	8.50	0.50	0.42	84	-	0.10-Hard massive charnockite, 0.32-Hard massive fractured granite gneiss	LPA/G3/12-05	8.10	10.50	2.40	0.11	1.46	98.00	0.43
8.50	9.00	0.50	0.49	98	-	Hard massive fractured granite gneiss								
9.00	9.90	0.90	0.84	93	-	Hard massive fractured granite gneiss								
9.90	10.20	0.30	0.27	90	-	Hard massive fractured granite gneiss								
10.20	10.70	0.50	0.47	94	-	Hard massive fractured granite gneiss	LPA/G3/12-06	10.50	11.50	1.00	0.02	0.67	98.60	0.71
10.70	11.50	0.80	0.77	96	70	Hard massive fractured granite gneiss								
11.50	12.50	1.00	0.93	93	-	Inclusion of graphite Hard massive fractured granite gneiss	LPA/G3/12-07	11.50	12.50	1.00	13.29	2.40	83.20	1.11

12.50	13.00	0.50	0.49	98	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-08	12.50	13.50	1.00	5.16	3.65	89.30	1.89
13.00	14.00	1.00	0.94	94	-	Inclusion of graphite within hard massive granite gneiss								
14.00	15.00	1.00	0.92	92	-	Inclusion of graphite within hard massive granite gneiss		13.50	14.50	1.00	6.52	3.27	88.40	1.81
15.00	15.50	0.50	0.49	98	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-10	14.50	15.50	1.00	2.16	4.05	91.70	2.09
15.50	15.90	0.40	0.39	97	-	Highly fractured granite gneiss	LPA/G3/12-11	15.50	15.90	0.40	0.34	5.97	91.30	2.39
15.90	16.90	1.00	0.83	83	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-12	15.90	17.10	1.20	3.87	3.83	90.50	1.80
16.90	17.60	0.70	0.58	83	-	0.20-Inclusion of graphite within hard massive highly fractured granite gneiss. 0.38-Fractured granite gneiss								
17.60	18.10	0.50	0.48	96	-	Highly fractured granite gneiss	LPA/G3/12-13	17.10	18.10	1.00	0.25	1.65	97.10	1.00
18.10	18.60	0.50	0.44	88	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-14	18.10	18.60	0.50	1.09	3.29	94.00	1.62
18.60	19.60	1.00	0.97	97	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-15	18.60	19.60	1.00	5.01	3.98	88.60	2.41
19.60	20.60	1.00	0.95	95	-	Hard massive fractured granite gneiss	LPA/G3/12-16	19.60	21.10	1.50	0.18	1.90	96.90	1.02
20.60	21.90	1.30	1.25	96	-	0.50-Hard massive fractured granite gneiss 0.60- very minor graphite 0.15- Altered granite gneiss		21.10	21.70	0.60	1.87	3.87	92.10	2.16
21.90	23.00	1.10	1.09	99	69	0.30- Hard massive granite gneiss 0.80- Graphite inclusion in hard massive granite gneiss		21.70	22.20	0.50	0.63	3.79	94.00	1.58
23.00	24.10	1.10	1.07	97	-	0.30- Inclusion of graphite 0.67- Hard massive fractured charnokite 0.10- Inclusion of graphite in quartzite	LPA/G3/12-19	22.20	23.30	1.10	4.60	4.71	88.00	2.69
24.10	25.60	1.50	1.47	98	-	Inclusion of graphite within hard massive highly fractured quartzite	LPA/G3/12-20	23.30	24.00	0.70	0.23	1.33	97.80	0.64
25.60	26.60	1.00	0.94	94	-	Inclusion of graphite within hard massive highly fractured quartzite	LPA/G3/12-21	24.00	24.60	0.60	11.92	3.13	84.00	0.95
26.60	27.60	1.00	0.97	97	-	Inclusion of graphite within hard massive highly fractured quartzite	LPA/G3/12-22	24.60	25.60	1.00	5.80	3.54	88.80	1.86
27.60	28.60	1.00	0.94	94	-	Inclusion of graphite within hard massive highly fractured quartzite	LPA/G3/12-23	25.60	26.60	1.00	5.48	4.27	88.10	2.15
28.60	29.60	1.00	0.95	95	-	Inclusion of graphite within hard massive highly fractured quartzite	LPA/G3/12-24	26.60	27.60	1.00	3.88	4.37	89.29	2.46
29.60	30.60	1.00	0.96	96	-	Inclusion of graphite within hard massive highly fractured quartzite	LPA/G3/12-25	27.60	28.60	1.00	9.58	3.86	85.36	1.20
30.60	31.60	1.00	0.97	97	-	Hard massive highly fractured granite gneiss	LPA/G3/12-26	28.60	29.60	1.00	5.70	3.70	89.53	1.07
							LPA/G3/12-27	29.60	30.60	1.00	3.72	3.72	90.98	1.58
							LPA/G3/12-28	30.60	31.60	1.00	0.03	0.93	98.58	0.46

31.60	32.50	0.90	0.86	96	-	Hard massive highly fractured granite gneiss	LPA/G3/12-29	31.60	33.00	1.40	0.67	4.26	91.84	3.23
32.50	33.30	0.80	0.74	93	-	0.50-Hard massive fractured granite gneiss 0.24- Inclusion of graphite within hard massive highly fractured granite gneiss								
33.30	33.80	0.50	0.45	90	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-30	33.00	34.00	1.00	3.99	6.08	87.31	2.62
33.80	34.30	0.50	0.48	96	-	Inclusion of graphite within hard massive highly fractured granite gneiss								
34.30	35.30	1.00	0.98	98	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-31	34.00	35.00	1.00	3.30	4.16	90.72	1.82
35.30	36.30	1.00	0.92	92	70	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-32	35.00	36.00	1.00	16.36	3.85	78.45	1.34
36.30	37.30	1.00	0.84	84	-	0.20- Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-33	36.00	36.50	0.50	10.24	4.81	83.23	1.72
						0.54- hard massive highly fractured granite gneiss	LPA/G3/12-34	36.50	37.00	0.50	0.84	5.13	92.86	1.17
						0.10-Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-35	37.00	37.60	0.60	4.30	5.19	88.60	1.91
37.30	38.30	1.00	0.87	87	-	0.30-Inclusion of graphite within hard massive highly fractured granite gneiss 0.57- Hard massive fractured granite gneiss	LPA/G3/12-36	37.60	38.30	0.70	0.50	5.17	92.25	2.08
38.30	38.80	0.50	0.48	96	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-37	38.30	40.00	1.70	1.10	3.78	92.81	2.31
38.80	39.30	0.50	0.46	92	-	Inclusion of graphite within hard massive highly fractured granite gneiss								
39.30	40.00	0.70	0.50	71	-	Inclusion of graphite within hard massive highly fractured granite gneiss								
40.00	40.20	0.20	0.16	80	-	Hard massive fractured granite gneiss	LPA/G3/12-38	40.00	40.80	0.80	0.88	3.33	93.56	2.23
40.20	41.20	1.00	0.95	95	-	Hard massive highly fractured granite gneiss								
41.20	41.80	0.60	0.58	97	-	Hard massive granite gneiss	LPA/G3/12-39	40.80	41.80	1.00	1.17	6.43	89.16	3.24
41.80	42.30	0.50	0.48	96	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-40	41.80	42.80	1.00	3.21	5.91	88.07	2.81
42.30	43.30	1.00	0.94	94	-	Inclusion of graphite within hard massive granite gneiss								
43.30	44.30	1.00	0.97	97	70	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-41	42.80	43.80	1.00	4.05	5.45	87.32	3.18
44.30	45.00	0.70	0.62	89	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-42	43.80	44.80	1.00	4.42	4.92	86.89	3.77
45.00	46.00	1.00	0.93	93	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-43	44.80	45.80	1.00	4.49	4.07	88.62	2.82
46.00	47.00	1.00	0.98	98	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-44	45.80	46.80	1.00	1.93	2.54	93.59	1.94
							LPA/G3/12-45	46.80	47.80	1.00	1.57	3.68	91.97	2.78

47.00	48.00	1.00	0.92	92	-	Inclusion of graphite within hard massive fractured granite gneiss	LPA/G3/12-46		47.80	48.80	1.00	2.18	6.67	87.28	3.86
48.00	48.60	0.60	0.58	97	-	Inclusion of graphite within hard massive fractured granite gneiss									
48.60	49.30	0.70	0.66	94	-	Inclusion of graphite within hard massive granite gneiss									
49.30	50.00	0.70	0.66	94	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-47		48.80	49.80	1.00	2.73	5.94	88.23	3.10
50.00	51.00	1.00	0.98	98	-	Inclusion of graphite within hard massive granite gneiss	LPA/G3/12-48		49.80	51.00	1.20	1.40	4.06	91.70	2.84
51.00	51.60	0.60	0.53	88	-	Hard massive altered granite gneiss	LPA/G3/12-49		51.00	51.60	0.60	0.14	1.62	95.87	2.37
51.60	52.00	0.40	0.33	83	-	Hard massive fractured charnockite	LPA/G3/12-50		51.60	53.00	1.40	0.10	0.13	99.33	0.45
52.00	53.00	1.00	0.98	98	-	Hard massive fractured charnockite with thin quartz vein intrusion in different part									
53.00	54.00	1.00	0.96	96	-	Hard massive fractured charnockite with thin quartz vein intrusion in different part									
54.00	54.40	0.40	0.39	98	-	Hard massive fractured charnockite	LPA/G3/12-52		54.00	54.40	0.40	0.04	0.26	99.27	0.44
54.40	55.10	0.70	0.47	67	-	Hard massive fractured granite gneiss	LPA/G3/12-53		54.40	56.00	1.60	0.04	1.86	95.79	2.31
55.10	55.80	0.70	0.65	93	-	Hard massive fractured granite gneiss									
55.80	56.50	0.70	0.60	86	-	Hard massive fractured granite gneiss									
56.50	57.00	0.50	0.38	76	-	Hard massive fractured granite gneiss	LPA/G3/12-54		56.00	57.00	1.00	0.04	0.42	98.92	0.62
57.00	57.80	0.80	0.69	86	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-55		57.00	58.00	1.00	1.53	4.37	92.60	1.51
57.80	58.30	0.50	0.48	96	-	Inclusion of graphite within hard massive highly fractured granite gneiss									
58.30	58.80	0.50	0.49	98	-	Inclusion of graphite within hard massive highly fractured granite gneiss									
58.80	59.40	0.60	0.54	90	-	Inclusion of graphite within hard massive highly fractured granite gneiss	LPA/G3/12-57		59.00	60.00	1.00	1.76	4.82	91.25	2.17
59.40	60.00	0.60	0.58	97	70	Inclusion of graphite within hard massive highly fractured granite gneiss									
60.00	60.60	0.60	0.55	92	-	Hard massive highly fractured granite gneiss									
60.60	61.60	1.00	0.97	97	-	Hard massive highly fractured granite gneiss	LPA/G3/12-58		60.00	61.00	1.00	1.60	3.07	93.65	1.67
61.60	62.00	0.40	0.37	93	-	Hard massive highly fractured granite gneiss	LPA/G3/12-59		61.00	62.00	1.00	0.09	0.33	98.68	0.91
Borehole closed at 62.00 m															

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK	
<u>Detailed Litholog</u>	
Borehole No. :LPA/G3/13	Date of commencement : 12.04.2024
Latitude : 20°05'25.33"	Date of closing : 04.05.2024
Longitude : 83°28'56.878"	Azimuth : 310°
RL of collar (m) : 333.327	Rig No. : DYNA-50-CR-07
Inclination angle of borehole : 55°	Size of core: HQ3
Total Depth (m) :71.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) :4.00	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.40	0.40	0.15	38	-	Brown top soil	LPA/G3/13-01	0.00	3.90	3.90	0.12	3.64	94.30	1.94
0.40	1.10	0.70	0.25	36	-	Brown top soil								
1.10	1.60	0.50	0.20	40	-	Brownish soil with broken rock fragments of garnetiferous garnite gneiss								
1.60	2.10	0.50	0.41	82	-	Brownish soil with broken rock fragments of garnetiferous garnite gneiss								
2.10	2.90	0.80	0.65	81	-	Brownish soil with broken rock fragments of garnetiferous garnite gneiss								
2.90	3.40	0.50	0.24	48	-	Brownish to grey soil with broken rock fragments of garnetiferous garnite gneiss								
3.40	3.90	0.50	0.47	94	-	Brownish to grey soil with broken rock fragments of garnetiferous garnite gneiss								
3.90	4.40	0.50	0.40	80	-	Altered garnetiferous garnite gneiss	LPA/G3/13-02	3.90	7.50	3.60	0.12	2.84	95.50	1.54
4.40	5.00	0.60	0.59	98	-	Hard massive garnetiferous garnite gneiss								
5.00	5.50	0.50	0.45	90	-	Altered garnetiferous garnite gneiss								
5.50	6.00	0.50	0.47	94	-	Altered garnetiferous garnite gneiss								
6.00	6.50	0.50	0.42	84	-	Altered highly fractured garnetiferous garnite gneiss								
6.50	7.00	0.50	0.46	92	-	Altered garnetiferous garnite gneiss								
7.00	7.50	0.50	0.47	94	-	Altered garnetiferous garnite gneiss								
7.50	8.00	0.50	0.19	38	-	Altered garnetiferous garnite gneiss	LPA/G3/13-03	7.50	11.10	3.60	0.17	5.46	91.70	2.67
8.00	8.50	0.50	0.39	78	-	Altered garnetiferous garnite gneiss								
8.50	9.00	0.50	0.45	90	-	Hard massive fractured garnetiferous garnite gneiss								
9.00	9.50	0.50	0.47	94	-	Hard massive fractured garnetiferous garnite gneiss								
9.50	10.10	0.60	0.53	88	-	Altered garnetiferous garnite gneiss								
10.10	10.60	0.50	0.46	92	-	Altered garnetiferous garnite gneiss								
10.60	11.10	0.50	0.48	96	-	Altered garnetiferous garnite gneiss								
11.10	12.10	1.00	0.94	94	-	0.40-Altered garnetiferous garnite gneiss 0.54-Hard masssive highly fractured garnetiferous garnite gneiss	LPA/G3/13-04	11.10	14.30	3.20	0.07	4.24	93.70	1.99
12.10	13.00	0.90	0.68	76	-	Altered garnetiferous garnite gneiss								
13.00	13.30	0.30	0.26	87	-	Altered garnetiferous garnite gneiss								
13.30	14.30	1.00	0.93	93	-	Altered garnetiferous garnite gneiss								

14.30	15.30	1.00	0.99	99	-	Hard massive fractured garnetiferous garnite gneiss with quartz vein intrusion	LPA/G3/13-05	14.30	17.80	3.50	0.10	2.22	96.60	1.08
15.30	16.20	0.90	0.89	99	-	Hard massive highly fractured garnetiferous garnite gneiss								
16.20	17.10	0.90	0.82	91	-	Altered garnetiferous garnite gneiss								
17.10	18.10	1.00	0.98	98	-	Altered garnetiferous garnite gneiss								
18.10	19.30	1.20	1.15	96	-	0.70-Partially weathere garnetiferous garnite gneiss 0.45- Graphite inclusion in garnetiferous garnite gneiss	LPA/G3/13-06	17.80	18.80	1.00	3.56	3.51	91.50	1.43
19.30	20.30	1.00	0.90	90	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-07	18.80	19.80	1.00	5.05	5.72	87.50	1.73
20.30	21.30	1.00	0.97	97	75	0.50-Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss 0.47- Hard massive fracture garnetiferous garnite gneiss	LPA/G3/13-08	19.80	20.80	1.00	5.10	6.47	85.90	2.53
21.30	22.30	1.00	0.97	97	-	Hard massive garnetiferous garnite gneiss	LPA/G3/13-09	20.80	21.80	1.00	0.46	2.37	96.00	1.17
22.30	23.30	1.00	0.93	93	-	Hard massive garnetiferous garnite gneiss	LPA/G3/13-10	21.80	25.30	3.50	0.29	1.61	97.50	0.60
23.30	24.30	1.00	0.96	96	-	Hard massive garnetiferous garnite gneiss								
24.30	25.30	1.00	0.98	98	-	Hard massive garnetiferous garnite gneiss								
25.30	26.30	1.00	0.95	95	-	Hard massive garnetiferous garnite gneiss								
26.30	27.30	1.00	0.97	97	-	Hard massive garnetiferous garnite gneiss	LPA/G3/13-11	25.30	28.80	3.50	0.49	1.88	96.90	0.73
27.30	28.20	0.90	0.87	97	-	Hard massive garnetiferous garnite gneiss								
28.20	29.20	1.00	0.97	97	-	Hard massive garnetiferous garnite gneiss								
29.20	30.20	1.00	0.95	95	73	0.60-Hard massive fractured garnetiferous garnite gneiss 0.35-Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss								
30.20	31.10	0.90	0.88	98	-	Inclusion of graphite within altered garnetiferous garnite gneiss	LPA/G3/13-12	28.80	29.80	1.00	0.54	2.08	96.40	0.98
31.10	32.10	1.00	0.88	88	-	0.60-Hard massive fractured garnetiferous garnite gneiss 0.28-Altered garnetiferous garnite gneiss	LPA/G3/13-13	29.80	31.10	1.30	3.48	5.16	89.30	2.06
32.10	33.10	1.00	0.92	92	-	Altered garnetiferous garnite gneiss	LPA/G3/13-14	31.10	32.10	1.00	0.70	3.98	93.20	2.12
33.10	34.00	0.90	0.88	98	-	Altered fractured garnetiferous garnite gneiss	LPA/G3/13-15	32.10	33.10	1.00	1.44	4.37	91.80	2.39
34.00	35.00	1.00	0.99	99	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-16	33.10	34.00	0.90	0.54	3.22	94.70	1.54
35.00	36.00	1.00	0.88	88	-	Hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-17	34.00	35.00	1.00	2.02	5.95	89.10	2.93
36.00	37.00	1.00	0.80	80	-	Inclusion of graphite within altered garnetiferous garnite gneiss	LPA/G3/13-18	35.00	36.00	1.00	0.22	1.81	97.00	0.97
37.00	38.00	1.00	0.93	93	-	Inclusion of graphite within altered garnetiferous garnite gneiss	LPA/G3/13-19	36.00	37.00	1.00	3.75	4.76	88.60	2.89
38.00	39.00	1.00	0.93	93	-	Altered garnetiferous garnite gneiss	LPA/G3/13-20	37.00	38.00	1.00	1.95	4.75	90.20	3.10
39.00	40.00	1.00	0.76	76	75	0.3-Altered garnetiferous garnite gneiss 0.46-Hard massive garnetiferous garnite gneiss	LPA/G3/13-21	38.00	39.00	1.00	1.09	3.62	93.50	1.79
40.00	40.50	0.50	0.49	98	-	Hard massive garnetiferous garnite gneiss	LPA/G3/13-22	39.00	41.60	2.60	1.49	2.44	94.90	1.17
40.50	41.00	0.50	0.47	94	-	Hard massive garnetiferous garnite gneiss								
41.00	41.50	0.50	0.48	96	-	Hard massive garnetiferous garnite gneiss								
41.50	42.00	0.50	0.46	92	-	Hard massive garnetiferous garnite gneiss								
42.00	42.60	0.60	0.54	90	-	Hard massive garnetiferous garnite gneiss	LPA/G3/13-23	41.60	42.60	1.00	1.27	2.19	95.40	1.14

42.60	43.10	0.50	0.46	92	-	Inclusion of graphite within altered garnetiferous garnite gneiss	LPA/G3/13-24	42.60	43.60	1.00	1.55	3.99	92.60	1.86
43.10	43.60	0.50	0.47	94	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss								
43.60	44.10	0.50	0.42	84	-	Inclusion of graphite within hard massive garnetiferous garnite gneiss	LPA/G3/13-25	43.60	44.60	1.00	1.71	5.63	90.30	2.36
44.10	44.60	0.50	0.48	96	-	Inclusion of graphite within hard massive garnetiferous garnite gneiss								
44.60	45.50	0.90	0.85	94	-	Inclusion of graphite within hard massive garnetiferous garnite gneiss	LPA/G3/13-26	44.60	45.60	1.00	2.28	6.18	89.50	2.04
45.50	46.50	1.00	0.95	95	-	Inclusion of graphite within hard massive garnetiferous garnite gneiss	LPA/G3/13-27							
46.50	47.50	1.00	0.90	90	75	Inclusion of graphite within hard massive garnetiferous garnite gneiss		45.60	46.60	1.00	1.72	5.07	91.70	1.51
47.50	48.40	0.90	0.88	98	-	Altered and fractured garnetiferous garnite gneiss	LPA/G3/13-28	46.60	47.50	0.90	2.16	4.86	91.80	1.18
48.40	49.40	1.00	0.94	94	-	Altered and fractured garnetiferous garnite gneiss	LPA/G3/13-29	47.50	48.40	0.90	0.90	4.19	91.90	3.01
49.40	50.00	0.60	0.56	93	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-30	48.40	49.40	1.00	1.09	7.52	87.40	3.99
50.00	51.20	1.20	1.15	96	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-31	49.40	50.40	1.00	10.12	4.07	83.80	2.01
51.20	52.20	1.00	0.97	97	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss								
52.20	53.20	1.00	0.97	97	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-32	50.40	51.40	1.00	5.94	6.69	85.00	2.37
53.20	54.20	1.00	0.97	97	-	0.60-Inclusion of graphite within hard massive garnetiferous garnite gneiss 0.37-Hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-33	51.40	52.40	1.00	6.06	7.11	84.10	2.73
							LPA/G3/13-34	52.40	53.40	1.00	8.03	5.84	83.90	2.23
							LPA/G3/13-35	53.40	53.80	0.40	3.42	5.95	88.30	2.33
							LPA/G3/13-36	53.80	55.00	1.20	0.75	5.47	90.80	2.98
54.20	55.00	0.80	0.70	88	-	Hard massive highly fractured garnetiferous garnite gneiss	LPA/G3/13-37							
55.00	56.00	1.00	0.95	95	74	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss		55.00	56.00	1.00	4.84	5.51	87.50	2.15
56.00	57.20	1.20	1.10	92	-	Inclusion of graphite within hard massive altered and fractured garnetiferous garnite gneiss	LPA/G3/13-38	56.00	57.00	1.00	6.50	5.93	84.90	2.67
57.20	58.20	1.00	0.95	95	-	0.80-Graphite inclusion in altered garnetiferous garnite gneiss 0.15-Altered garnetiferous garnite gneiss	LPA/G3/13-39	57.00	58.00	1.00	5.60	6.16	85.80	2.44
58.20	59.20	1.00	0.95	95	-	0.40-Hard massive fractured garnetiferous garnite gneiss 0.55- Inclusion of graphite within hard massive fractured garnetiferous quartzite	LPA/G3/13-40	58.00	58.60	0.60	0.54	4.42	92.60	2.44
59.20	60.00	0.80	0.78	98	-	Inclusion of graphite within hard massive fractured garnetiferous quartzite								
60.00	61.00	1.00	0.93	93	-	Inclusion of graphite within hard massive fractured garnetiferous quartzite	LPA/G3/13-41	58.60	59.60	1.00	1.25	4.38	91.30	3.07
61.00	62.00	1.00	0.95	95	-	Inclusion of graphite within hard massive fractured garnetiferous quartzite	LPA/G3/13-42	59.60	60.60	1.00	2.31	5.19	89.90	2.60
62.00	63.00	1.00	0.95	95	-	Partially weathere garnetiferous garnite gneiss								
63.00	64.00	1.00	0.90	90	-	Hard massive highly fractured garnetiferous garnite gneiss	LPA/G3/13-43	60.60	61.60	1.00	5.21	4.79	87.70	2.30
64.00	65.00	1.00	0.95	95	-	Hard massive highly fractured garnetiferous garnite gneiss	LPA/G3/13-44	61.60	62.00	0.40	6.37	5.32	85.90	2.41
							LPA/G3/13-45	62.00	63.00	1.00	1.15	5.64	90.40	2.81
							LPA/G3/13-46	63.00	64.00	1.00	1.47	4.57	91.50	2.46
							LPA/G3/13-47	64.00	65.00	1.00	0.68	5.11	91.80	2.41



65.00	66.00	1.00	0.94	94	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-48	65.00	66.00	1.00	1.86	5.37	89.10	3.67
66.00	67.00	1.00	0.95	95	-	Altered garnetiferous garnite gneiss with thin quartz vein intrusion	LPA/G3/13-49	66.00	67.00	1.00	0.72	4.26	92.20	2.82
67.00	68.00	1.00	0.96	96	-	Inclusion of graphite within hard massive fractured garnetiferous garnite gneiss	LPA/G3/13-50	67.00	68.00	1.00	1.46	5.95	89.50	3.09
68.00	69.00	1.00	0.92	92	-	Altered garnetiferous garnite gneiss with a few pyrite	LPA/G3/13-51	68.00	69.00	1.00	2.51	6.61	88.20	2.68
69.00	70.00	1.00	0.88	88	75	Altered garnetiferous garnite gneiss with a few pyrite	LPA/G3/13-52	69.00	71.00	2.00	2.27	5.81	89.30	2.62
70.00	71.00	1.00	0.93	93	-	Altered garnetiferous garnite gneiss								
Borehole closed at 71.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK	
<u>Detailed Litholog</u>	
Borehole No. :LPA/G3/14	Date of commencement : 08.02.2024
Latitude : 20°05'20.615"	Date of closing : 14.02.2024
Longitude : 83°28'52.244"	Azimuth : 310°
RL of collar (m) : 264.486	Rig No. : DYNA-50H-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :42.00	Type of drilling: Wet(Triple tube)
Casing Depth (m) :5.90	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.30	0.30	0.23	77	-	Brown soil	LPA/G3/14-01	0.00	3.75	3.75	0.24	5.60	91.80	2.36
0.30	0.75	0.45	0.42	93	-	Brown soil								
0.75	1.25	0.50	0.42	84	-	Brown soil								
1.25	1.75	0.50	0.46	92	-	Brown soil with broken rock fragments of granite gneiss and charnockite								
1.75	2.25	0.50	0.46	92	-	Brown soil								
2.25	2.65	0.40	0.35	88	-	Brown soil								
2.65	3.25	0.60	0.58	97	-	Brown soil								
3.25	3.75	0.50	0.27	54	-	Brown soil								
3.75	4.25	0.50	0.48	96	-	Brown soil	LPA/G3/14-02	3.75	7.35	3.60	0.29	6.59	86.90	6.22
4.25	4.85	0.60	0.53	88	-	Brown soil								
4.85	5.35	0.50	0.40	80	-	Brown soil								
5.35	5.65	0.30	0.29	97	-	Brown soil								
5.65	6.15	0.50	0.35	70	-	Brown soil								
6.15	6.75	0.60	0.43	72	-	Brown soil								
6.75	7.35	0.60	0.58	97	-	Brown soil								
7.35	7.85	0.50	0.48	96	-	Brown soil	LPA/G3/14-03	7.35	11.30	3.95	0.09	5.06	89.65	5.20
7.85	8.25	0.40	0.32	80	-	Brown soil								
8.25	8.75	0.50	0.42	84	-	Brown soil								
8.75	9.30	0.55	0.48	87	-	Brown soil								
9.30	9.80	0.50	0.43	86	-	Brown soil								
9.80	10.30	0.50	0.43	86	-	Brown soil								
10.30	10.80	0.50	0.44	88	-	Brown soil								
10.80	11.30	0.50	0.42	84	-	Brown soil								

11.30	11.80	0.50	0.48	96	-	Broken rock fragments of granite gneiss and charnockite	LPA/G3/14-04	11.30	14.80	3.50	0.05	2.48	94.90	2.57
11.80	12.30	0.50	0.45	90	-	Broken rock fragments of granite gneiss and charnockite								
12.30	12.80	0.50	0.47	94	-	Broken rock fragments of granite gneiss and charnockite								
12.80	13.30	0.50	0.40	80	-	Broken rock fragments of granite gneiss and charnockite								
13.30	13.80	0.50	0.35	70	-	Broken rock fragments of granite gneiss and charnockite								
13.80	14.30	0.50	0.30	60	-	Broken rock fragments of granite gneiss								
14.30	14.80	0.50	0.47	94	-	Highly fractured altered granite gneiss	LPA/G3/14-05	14.80	15.80	1.00	0.27	3.31	92.80	3.62
14.80	15.30	0.50	0.40	80	-	Altered granite gneiss								
15.30	15.80	0.50	0.45	90	-	Altered granite gneiss	LPA/G3/14-06	15.80	16.80	1.00	1.65	4.35	89.40	4.60
15.80	16.30	0.50	0.45	90	-	Inclusions of graphite in altered granite gneiss								
16.30	16.80	0.50	0.49	98	-	Inclusions of graphite in altered granite gneiss	LPA/G3/14-07	16.80	17.80	1.00	1.42	5.66	86.90	6.02
16.80	17.30	0.50	0.38	76	-	Inclusions of graphite in altered granite gneiss								
17.30	17.80	0.50	0.48	96	-	Inclusions of graphite in altered granite gneiss	LPA/G3/14-08	17.80	18.80	1.00	3.21	5.14	87.20	4.45
17.80	18.30	0.50	0.47	94	-	Inclusions of graphite in altered granite gneiss								
18.30	18.80	0.50	0.46	92	-	Inclusions of graphite in altered granite gneiss	LPA/G3/14-09	18.80	19.80	1.00	2.89	4.88	87.40	4.83
18.80	19.30	0.50	0.40	80	-	Inclusions of graphite in altered granite gneiss								
19.30	19.80	0.50	0.44	88	-	Inclusions of graphite in altered granite gneiss	LPA/G3/14-10	19.80	21.30	1.50	0.22	5.63	90.50	3.65
19.80	20.30	0.50	0.43	86	-	Altered granite gneiss								
20.30	20.80	0.50	0.35	70	-	Altered granite gneiss								
20.80	21.30	0.50	0.35	70	-	Altered granite gneiss	LPA/G3/14-11	21.30	22.30	1.00	2.17	6.83	88.80	2.20
21.30	21.80	0.50	0.42	84	-	Inclusions of graphite in altered granite gneiss								
21.80	22.30	0.50	0.48	96	-	Inclusions of graphite in altered granite gneiss	LPA/G3/14-12	22.30	22.80	0.50	2.07	6.60	89.40	1.93
22.30	22.80	0.50	0.45	90	-	Inclusions of graphite in altered granite gneiss								
22.80	23.30	0.50	0.40	80	-	Altered granite gneiss	LPA/G3/14-13	22.80	23.80	1.00	1.32	6.25	89.70	2.73
23.30	23.80	0.50	0.45	90	-	Altered granite gneiss								
23.80	24.30	0.50	0.48	96	85	Inclusions of graphite in altered granite gneiss	LPA/G3/14-14	23.80	24.80	1.00	2.62	6.42	88.80	2.16
24.30	24.80	0.50	0.45	90	-	Graphite inclusions in altered granite gneiss								
24.80	25.30	0.50	0.46	92	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-15	24.80	25.80	1.00	1.80	6.21	89.80	2.19
25.30	25.80	0.50	0.48	96	-	Graphite inclusions in altered granite gneiss								
25.80	26.30	0.50	0.47	94	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-16	25.80	26.80	1.00	1.68	5.99	90.30	2.03
26.30	27.30	1.00	0.95	95	-	Altered granite gneiss with inclusions of graphite								
27.30	27.80	0.50	0.42	84	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-17	26.80	27.80	1.00	2.36	5.55	89.67	2.41

27.80	28.30	0.50	0.45	90	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-18	27.80	28.80	1.00	3.17	5.13	89.85	1.85
28.30	29.00	0.70	0.65	93	-	Altered granite gneiss with inclusions of graphite		LPA/G3/14-19	28.80	29.80	1.00	2.44	5.44	90.02
29.00	29.50	0.50	0.47	94	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-20							
29.50	30.00	0.50	0.45	90	-	Altered granite gneiss with inclusions of graphite		LPA/G3/14-21	30.80	31.80	1.00	3.58	5.76	88.77
30.00	30.80	0.80	0.71	89	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-22							
30.80	31.40	0.60	0.54	90	-	Altered granite gneiss with inclusions of graphite		LPA/G3/14-23	32.80	33.80	1.00	1.89	4.67	91.87
31.40	32.00	0.60	0.54	90	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-24							
32.00	33.00	1.00	0.97	97	-	Altered granite gneiss with inclusions of graphite		LPA/G3/14-25	34.80	35.80	1.00	2.92	3.76	91.45
33.00	33.80	0.80	0.70	88	-	Altered granite gneiss with inclusions of graphite	LPA/G3/14-26							
33.80	34.30	0.50	0.48	96	-	Inclusions of graphite within hard massive fractured granite gneiss		LPA/G3/14-27	36.90	38.00	1.10	1.25	2.99	94.41
34.30	35.00	0.70	0.63	90	84	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/14-28							
35.00	36.00	1.00	0.93	93	-	Inclusions of graphite within hard massive fractured granite gneiss		LPA/G3/14-28	38.00	42.00	4.00	0.15	1.20	97.88
36.00	36.90	0.90	0.86	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/14-28							
36.90	37.90	1.00	0.98	98	-	Hard massive granite gneiss with quartz vein		LPA/G3/14-28	38.00	42.00	4.00	0.15	1.20	97.88
37.90	38.40	0.50	0.48	96	-	Hard massive fractured quartzite with quartz vein	LPA/G3/14-28							
38.40	39.40	1.00	0.91	91	85	Hard massive fractured quartzite with quartz vein		LPA/G3/14-28	38.00	42.00	4.00	0.15	1.20	97.88
39.40	40.00	0.60	0.58	97	-	Hard massive fractured quartzite with quartz vein and sulphide minerals	LPA/G3/14-28							
40.00	41.00	1.00	0.99	99	-	Hard massive fractured quartzite with sulphide minerals		LPA/G3/14-28	38.00	42.00	4.00	0.15	1.20	97.88
41.00	42.00	1.00	0.98	98	-	Hard massive fractured quartzite with sulphide minerals	LPA/G3/14-28							
Borehole closed at 42.00 m														

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10.80	11.30	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-07	10.80	11.80	1.00	2.29	4.34	91.45	1.93
11.30	11.80	0.50	0.47	94	-	Inclusions of graphite within altered granite gneiss								
11.80	12.30	0.50	0.49	98	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-08	11.80	12.80	1.00	1.12	6.29	90.46	2.12
12.30	12.80	0.50	0.47	94	-	Inclusions of graphite within altered granite gneiss								
12.80	13.20	0.40	0.32	80	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-09	12.80	13.80	1.00	2.26	6.09	89.48	2.16
13.20	13.70	0.50	0.45	90	-	Inclusions of graphite within altered granite gneiss								
13.70	14.10	0.40	0.37	92	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-10	13.80	14.80	1.00	2.39	5.47	90.65	1.50
14.10	14.60	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss								
14.60	15.10	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-11	14.80	15.80	1.00	2.54	4.76	91.21	1.49
15.10	15.60	0.50	0.49	98	80	Inclusions of graphite within altered granite gneiss								
15.60	16.00	0.40	0.24	60	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-12	15.80	16.80	1.00	3.11	5.41	90.24	1.24
16.00	16.50	0.50	0.42	84	-	Inclusions of graphite within altered granite gneiss								
16.50	17.00	0.50	0.45	90	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-13	16.80	17.80	1.00	1.83	6.29	89.77	2.11
17.00	17.50	0.50	0.47	94	-	Inclusions of graphite within altered granite gneiss								
17.50	18.00	0.50	0.43	86	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-14	17.80	18.80	1.00	2.55	6.66	88.84	1.95
18.00	18.50	0.50	0.49	98	-	Inclusions of graphite within altered granite gneiss								
18.50	19.00	0.50	0.47	94	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-15	18.80	19.80	1.00	2.50	8.46	86.58	2.47
19.00	19.50	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss								
19.50	20.00	0.50	0.49	98	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-16	19.80	20.80	1.00	2.84	7.19	88.05	1.92
20.00	20.50	0.50	0.46	92	-	Inclusions of graphite within altered granite gneiss								
20.50	21.00	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-17	20.80	21.80	1.00	2.74	6.14	88.87	2.25
21.00	21.50	0.50	0.47	94	-	Inclusions of graphite within altered granite gneiss								
21.50	22.00	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-18	21.80	22.80	1.00	2.43	5.57	89.63	2.38
22.00	22.30	0.30	0.23	77	-	Inclusions of graphite within altered granite gneiss								
22.30	22.80	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss								

22.80	23.30	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-19	22.80	23.80	1.00	3.45	5.46	89.39	1.70
23.30	23.80	0.50	0.34	68	-	Inclusions of graphite within fractured granite gneiss								
23.80	24.30	0.50	0.39	78	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-20	23.80	24.80	1.00	1.53	4.09	92.06	2.32
24.30	24.80	0.50	0.48	96	-	0.10-Inclusions of graphite within fractured granite gneiss 0.38-Hard massive fractured granite gneiss								
24.80	25.30	0.50	0.47	94	-	Hard massive fractured granite gneiss	LPA/G3/15-21	24.80	25.80	1.00	0.08	0.27	99.26	0.39
25.30	25.80	0.50	0.47	94	-	Hard massive fractured granite gneiss								
25.80	26.30	0.50	0.48	96	-	Hard massive fractured granite gneiss with thin quartz vein in fracture zone	LPA/G3/15-22	25.80	28.00	2.20	0.06	0.62	98.44	0.87
26.30	26.80	0.50	0.43	86	-	Hard massive highly fractured granite gneiss								
26.80	27.30	0.50	0.46	92	-	Hard massive highly fractured granite gneiss								
27.30	27.60	0.30	0.24	80	-	Hard massive highly fractured granite gneiss								
27.60	28.00	0.40	0.35	88	-	Hard massive highly fractured granite gneiss								
28.00	28.50	0.50	0.48	96	-	Hard massive highly fractured granite gneiss	LPA/G3/15-23	28.00	29.00	1.00	0.05	0.45	98.64	0.87
28.50	29.00	0.50	0.47	94	-	Hard massive highly fractured granite gneiss								
29.00	29.50	0.50	0.45	90	-	0.25-Hard massive highly fractured granite gneiss 0.20- Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/15-24	29.00	30.00	1.00	2.53	2.17	94.36	0.94
29.50	30.00	0.50	0.42	84	-	Inclusions of graphite within fractured granite gneiss								
30.00	30.50	0.50	0.48	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/15-25	30.00	31.00	1.00	5.50	2.89	91.00	0.61
30.50	31.00	0.50	0.49	98	79	Inclusions of graphite within hard massive granite gneiss								
31.00	31.50	0.50	0.46	92	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/15-26	31.00	32.00	1.00	4.47	3.11	91.03	1.38
31.50	32.00	0.50	0.48	96	-	Inclusions of graphite within hard massive granite gneiss								
32.00	32.50	0.50	0.48	96	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/15-27	32.00	33.00	1.00	1.46	1.53	95.82	1.18
32.50	33.00	0.50	0.46	92	-	Inclusions of graphite within hard massive fractured granite gneiss								
33.00	33.50	0.50	0.48	96	-	Inclusions of graphite within hard massive fractured granite gneiss	LPA/G3/15-28	33.00	33.50	0.50	1.47	1.55	96.17	0.81
33.50	34.00	0.50	0.46	92	-	Hard massive highly fractured granite gneiss	LPA/G3/15-29	33.50	34.50	1.00	2.15	3.66	91.50	2.68
34.00	34.50	0.50	0.48	96	-	Hard massive highly fractured granite gneiss								
34.50	35.00	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-30	34.50	35.50	1.00	6.18	5.78	84.89	3.16
35.00	35.50	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss								
35.50	36.00	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-31	35.50	36.50	1.00	3.45	4.65	89.18	2.72
36.00	36.50	0.50	0.47	94	-	Inclusions of graphite within fractured granite gneiss								
36.50	37.00	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-32	36.50	37.00	0.50	3.03	5.55	86.64	4.78
37.00	37.50	0.50	0.44	88	-	Fractured granite gneiss	LPA/G3/15-33	37.00	38.00	1.00	2.04	3.66	90.47	3.84
37.50	38.00	0.50	0.39	78	-	Fractured granite gneiss								

38.00	38.50	0.50	0.48	96	-	Hard massive highly fractured granite gneiss	LPA/G3/15-34	38.00	39.00	1.00	1.70	2.89	93.41	1.99
38.50	39.00	0.50	0.48	96	-	Hard massive fractured granite gneiss								
39.00	39.50	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-35	39.00	40.00	1.00	3.22	3.61	91.44	1.73
39.50	40.00	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss								
40.00	40.50	0.50	0.48	96	78	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-36	40.00	41.00	1.00	5.01	5.71	86.90	2.38
40.50	41.00	0.50	0.42	84	-	Inclusions of graphite within fractured granite gneiss								
41.00	41.50	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-37	41.00	41.50	0.50	3.30	7.56	86.03	3.11
41.50	42.00	0.50	0.48	96	-	Altered granite gneiss	LPA/G3/15-38	41.50	42.00	0.50	4.63	6.02	85.06	4.29
42.00	42.50	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-39	42.00	43.00	1.00	6.46	5.51	85.21	2.81
42.50	43.00	0.50	0.46	92	-	Inclusions of graphite within altered granite gneiss								
43.00	43.50	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-40	43.00	44.00	1.00	7.94	5.16	84.57	2.33
43.50	44.00	0.50	0.47	94	-	Inclusions of graphite within hard massive granite gneiss								
44.00	44.50	0.50	0.46	92	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/15-41	44.00	44.50	0.50	5.36	5.12	87.13	2.39
44.50	45.00	0.50	0.48	96	-	Altered granite gneiss	LPA/G3/15-42	44.50	45.00	0.50	3.09	7.95	85.39	3.57
45.00	45.50	0.50	0.46	92	-	0.36-Altered fractured granite gneiss 0.10-Inclusions of graphite within fractured granite gneiss	LPA/G3/15-43	45.00	46.00	1.00	3.35	6.30	86.40	3.95
45.50	46.00	0.50	0.46	92	-	Inclusions of graphite within granite gneiss with quartz vein intrusion								
46.00	46.50	0.50	0.47	94	-	Inclusions of graphite within granite gneiss	LPA/G3/15-44	46.00	47.00	1.00	5.38	6.43	86.10	2.09
46.50	47.00	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss								
47.00	47.50	0.50	0.46	92	80	Inclusions of graphite within altered granite gneiss	LPA/G3/15-45	47.00	48.00	1.00	5.54	4.36	88.10	2.00
47.50	48.00	0.50	0.46	92	-	Inclusions of graphite within altered granite gneiss								
48.00	48.45	0.45	0.43	96	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-46	48.00	49.00	1.00	7.46	4.32	86.60	1.62
48.45	49.00	0.55	0.53	96	-	Inclusions of graphite within altered granite gneiss								
49.00	49.50	0.50	0.44	88	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-47	49.00	50.00	1.00	6.46	6.31	84.30	2.93
49.50	50.00	0.50	0.48	96	-	Inclusions of graphite within altered granite gneiss								
50.00	50.50	0.50	0.45	90	-	Inclusions of graphite within altered granite gneiss	LPA/G3/15-48	50.00	51.00	1.00	6.29	7.11	84.60	2.00
50.50	51.00	0.50	0.45	90	-	Inclusions of graphite within altered granite gneiss with quartz vein intrusion								
51.00	51.50	0.50	0.49	98	-	Inclusions of graphite within altered granite gneiss with quartz vein intrusion	LPA/G3/15-49	51.00	51.50	0.50	6.44	4.95	86.60	2.01
51.50	52.00	0.50	0.46	92	-	Hard massive granite gneiss	LPA/G3/15-50	51.50	52.50	1.00	2.25	5.74	89.70	2.31
52.00	52.50	0.50	0.43	86	-	Hard massive granite gneiss								
52.50	53.00	0.50	0.49	98	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-51	52.50	53.50	1.00	7.07	3.11	88.20	1.62
53.00	53.50	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss								



53.50	54.00	0.50	0.45	90	80	Inclusions of graphite within fractured granite gneiss	LPA/G3/15-52	53.50	54.00	0.50	2.26	4.13	92.40	1.21
54.00	54.50	0.50	0.45	90	-	Hard massive fractured granite gneiss	LPA/G3/15-53	54.00	55.00	1.00	1.10	5.79	90.80	2.31
54.50	55.00	0.50	0.48	96	-	Hard massive fractured granite gneiss								
55.00	55.50	0.50	0.45	90	-	Hard massive fractured granite gneiss	LPA/G3/15-54	55.00	59.00	4.00	0.12	2.59	95.30	1.99
55.50	56.00	0.50	0.44	88	-	Hard massive fractured granite gneiss								
56.00	56.50	0.50	0.48	96	-	Hard massive highly fractured granite gneiss								
56.50	57.00	0.50	0.47	94	-	Hard massive fractured granite gneiss								
57.00	57.40	0.40	0.35	88	-	Hard massive fractured granite gneiss								
57.40	58.00	0.60	0.57	95	-	Hard massive fractured granite gneiss								
58.00	58.40	0.40	0.37	93	-	Hard massive fractured granite gneiss								
58.40	59.00	0.60	0.07	12	-	Hard massive granite gneiss								
Borehole closed at 59.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK <u>Detailed Litholog</u>	
Borehole No. :LPA/G3/16	Date of commencement : 10.04.2024
Latitude : 20°05'15.575"	Date of closing : 18.04.2024
Longitude : 83°28'47.651"	Azimuth : 310°
RL of collar (m) : 245.134	Rig No. : DYNA-50-H-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :42.00	Type of drilling: Wet(Tripplle tube)
Casing Depth (m) : 3.00	Drilling Agency : Mining Associates Private Limited

DRILL RUN DETAILS						Rock Description	SAMPLE DETAILS				CHEMICAL ANALYSIS RESULTS			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.50	0.50	0.44	88	-	Brown oil	LPA/G3/16-01	0.00	2.00	2.00	0.06	5.88	91.40	2.66
0.50	1.00	0.50	0.30	60	-	Brown oil								
1.00	1.50	0.50	0.33	66	-	Brown oil								
1.50	2.00	0.50	0.27	54	-	Brown oil								
2.00	2.50	0.50	0.38	76	-	Weathered Granite gneiss	LPA/G3/16-02	2.00	3.40	1.40	0.08	3.24	94.99	1.69
2.50	3.00	0.50	0.43	86	-	Weathered Granite gneiss								
3.00	3.30	0.30	0.26	87	-	Weathered Granite gneiss								
3.30	3.80	0.50	0.11	22	-	Weathered Granite gneiss	LPA/G3/16-03	3.40	4.40	1.00	0.05	2.71	95.30	1.94
3.80	4.10	0.30	0.13	43	-	Weathered Granite gneiss								
4.10	4.40	0.30	0.23	77	-	Weathered Granite gneiss	LPA/G3/16-04	4.40	5.40	1.00	2.30	4.28	90.80	2.62
4.40	5.00	0.60	0.54	90	-	Inclusions of graphite in altered granite gneiss								
5.00	5.50	0.50	0.43	86	-	Inclusions of graphite in altered granite gneiss	LPA/G3/16-05	5.40	6.40	1.00	1.21	5.35	89.30	4.14
5.50	6.00	0.50	0.49	98	-	Inclusions of graphite in altered granite gneiss								
6.00	6.50	0.50	0.46	92	-	Inclusions of graphite in altered granite gneiss	LPA/G3/16-06	6.40	7.40	1.00	2.48	4.82	90.50	2.20
6.50	7.10	0.60	0.59	98	-	Inclusions of graphite in altered granite gneiss								
7.10	7.70	0.60	0.58	97	-	Inclusions of graphite in altered granite gneiss	LPA/G3/16-07	7.40	8.40	1.00	4.69	4.02	89.70	1.59
7.70	8.70	1.00	0.98	98	-	Inclusions of graphite in altered granite gneiss								
8.70	9.70	1.00	0.93	93	85	Inclusions of graphite in altered granite gneiss	LPA/G3/16-08	8.40	9.40	1.00	1.78	3.68	92.90	1.64
9.70	10.10	0.40	0.39	97	-	Inclusions of graphite in altered granite gneiss								
10.10	11.10	1.00	0.95	95	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-09	9.40	10.40	1.00	4.40	5.85	87.10	2.65
							LPA/G3/16-10	10.40	11.10	0.70	0.38	3.73	93.60	2.29

11.10	11.90	0.80	0.67	84	-	Hard massive fractured granite gneiss	LPA/G3/16-11	11.10	12.10	1.00	0.17	1.37	98.10	0.36
11.90	12.40	0.50	0.44	88	-	Hard massive fractured granite gneiss	LPA/G3/16-12	12.10	15.40	3.30	0.16	2.34	96.10	1.40
12.40	13.00	0.60	0.55	92	-	Hard massive fractured granite gneiss with thin quartz vein intrusion								
13.00	13.50	0.50	0.44	88	-	Hard massive fractured granite gneiss with thin quartz vein intrusion								
13.50	14.50	1.00	0.93	93	-	Hard massive fractured granite gneiss								
14.50	15.40	0.90	0.88	98	-	Hard massive fractured granite gneiss								
15.40	16.10	0.70	0.59	84	-	Hard massive fractured granite gneiss with thin quartz vein intrusion	LPA/G3/16-13	15.40	19.10	3.70	0.20	2.65	95.90	1.25
16.10	17.10	1.00	0.97	97	-	Hard massive fractured granite gneiss								
17.10	18.10	1.00	0.98	98	-	Hard massive fractured granite gneiss								
18.10	19.10	1.00	0.97	97	83	Hard massive fractured granite gneiss								
19.10	20.10	1.00	0.98	98	-	Hard massive fractured granite gneiss	LPA/G3/16-14	19.10	20.60	1.50	0.57	2.69	96.00	0.74
20.10	21.10	1.00	0.97	97	-	Hard massive fractured granite gneiss								
21.10	21.60	0.50	0.44	88	-	Hard massive fractured granite gneiss	LPA/G3/16-15	20.60	21.60	1.00	0.77	5.71	90.00	3.52
21.60	22.10	0.50	0.48	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-16	21.60	22.60	1.00	1.42	3.94	93.30	1.34
22.10	23.10	1.00	0.97	97	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-17	22.60	23.60	1.00	4.07	4.14	90.40	1.39
23.10	24.10	1.00	0.96	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-18	23.60	24.60	1.00	3.67	5.28	89.50	1.55
24.10	25.00	0.90	0.89	99	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-19	24.60	25.60	1.00	2.79	4.62	90.80	1.79
25.00	25.50	0.50	0.46	92	-	Inclusions of graphite within fractured granite gneiss								
25.50	26.00	0.50	0.42	84	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-20	25.60	26.50	0.90	1.39	3.27	93.90	1.44
26.00	26.50	0.50	0.44	88	-	Inclusions of graphite within fractured granite gneiss								
26.50	27.00	0.50	0.38	76	-	Hard massive fractured granite gneiss	LPA/G3/16-21	26.50	27.50	1.00	1.06	2.49	94.60	1.85
27.00	27.50	0.50	0.45	90	-	Hard massive fractured granite gneiss								
27.50	28.00	0.50	0.47	94	85	Hard massive fractured granite gneiss	LPA/G3/16-22	27.50	29.00	1.50	1.61	3.21	93.50	1.68
28.00	28.50	0.50	0.45	90	-	Hard massive fractured granite gneiss with quartz veins								
28.50	29.00	0.50	0.44	88	-	Hard massive fractured granite gneiss with quartz veins								
29.00	29.50	0.50	0.45	90	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-23	29.00	30.00	1.00	0.42	3.37	95.70	0.51
29.50	30.00	0.50	0.46	92	-	Inclusions of graphite within fractured granite gneiss								
30.00	30.50	0.50	0.48	96	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-24	30.00	31.00	1.00	1.57	5.98	91.60	0.85
30.50	31.00	0.50	0.42	84	-	Inclusions of graphite within fractured granite gneiss								
31.00	31.50	0.50	0.43	86	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-25	31.00	32.00	1.00	3.98	4.89	89.50	1.63
31.50	32.00	0.50	0.46	92	-	Inclusions of graphite within fractured granite gneiss								

32.00	32.50	0.50	0.44	88	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-26	32.00	33.00	1.00	0.88	3.57	94.60	0.95
32.50	33.00	0.50	0.38	76	-	Inclusions of graphite within fractured granite gneiss								
33.00	33.50	0.50	0.48	96	84	Inclusions of graphite within hard massive granite gneiss	LPA/G3/16-27	33.00	34.00	1.00	1.12	2.87	94.70	1.31
33.50	34.00	0.50	0.46	92	-	Inclusions of graphite within hard massive granite gneiss								
34.00	34.50	0.50	0.49	98	-	Inclusions of graphite within hard massive granite gneiss	LPA/G3/16-28	34.00	35.00	1.00	3.41	4.07	91.30	1.22
34.50	35.00	0.50	0.46	92	-	Inclusions of graphite within hard massive granite gneiss								
35.00	35.50	0.50	0.46	92	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-29	35.00	36.00	1.00	4.90	4.56	88.90	1.64
35.50	36.00	0.50	0.48	96	-	Inclusions of graphite within fractured granite gneiss								
36.00	36.50	0.50	0.47	94	-	Inclusions of graphite within fractured granite gneiss	LPA/G3/16-30	36.00	37.00	1.00	4.32	4.89	89.60	1.19
36.50	37.00	0.50	0.48	96	-	Inclusions of graphite within highly fractured granite gneiss								
37.00	37.50	0.50	0.40	80	-	Hard massive fractured granite gneiss	LPA/G3/16-31	37.00	38.00	1.00	0.37	3.88	94.70	1.05
37.50	38.00	0.50	0.48	96	-	Hard massive fractured granite gneiss								
38.00	38.50	0.50	0.42	84	-	Hard massive fractured granite gneiss								
38.50	39.00	0.50	0.48	96	-	Hard massive fractured granite gneiss								
39.00	39.50	0.50	0.47	94	-	Hard massive fractured granite gneiss with quartz veins								
39.50	40.00	0.50	0.48	96	-	Hard massive fractured granite gneiss with altered fracture zone	LPA/G3/16-32	38.00	42.00	4.00	0.29	1.53	97.60	0.58
40.00	40.50	0.50	0.49	98	-	Hard massive granite gneiss								
40.50	41.00	0.50	0.47	94	-	Hard massive granite gneiss								
41.00	41.50	0.50	0.46	92	-	Hard massive highly fractured granite gneiss								
41.50	42.00	0.50	0.47	94	85	Hard massive granite gneiss								
Borehole closed at 42.00 m														

Logged by: Bhupati Kumar Nayak

BLOCK NAME-LAMER-PANGA BLOCK-A (G-3) GRAPHITE BLOCK <u>Detailed Litholog</u>	
Borehole No. :LPA/G3/17	Date of commencement : 22.04.2024
Latitude : 20°05'40.181"	Date of closing : 01.05.2024
Longitude : 83°29'10.319"	Azimuth : 310°
RL of collar (m) : 274.989	Rig No. : DYNA-50-H-01
Inclination angle of borehole : 45°	Size of core: HQ3
Total Depth (m) :35.00	Type of drilling: Wet(Tripplle tube)
Casing Depth (m) :3.00	Drilling Agency : Mining Associates Private Limited

Drill Run Details						Rock Description	Sample Details				Chemical Analysis Results			
From (m)	To (m)	Length (m)	Rec. Length (m)	Rec. (%)	Core axial angle (in degree)		Sample No.	Depth From (m)	Depth To (m)	Length (m)	Fixed Carbon %	Volatile Matter (%)	Ash %	Moisture (%)
0.00	0.40	0.40	0.00	0	-	Core Loss	LPA/G3/17-01	0.40	1.80	1.40	0.19	6.92	90.00	2.89
0.40	0.80	0.40	0.29	73	-	Brown reddish soil								
0.80	1.30	0.50	0.30	60	-	Brown reddish soil								
1.30	1.80	0.50	0.20	40	-	Brown reddish soil								
1.80	2.10	0.30	0.18	60	-	Soil with rock fragments of granite gneiss	LPA/G3/17-02	1.80	4.30	2.50	0.11	7.13	90.30	2.46
2.10	2.60	0.50	0.45	90	-	Soil with fractured rock fragments of granite gneiss								
2.60	3.10	0.50	0.40	80	-	Soil with fractured rock fragments of granite gneiss								
3.10	3.60	0.50	0.45	90	-	Soil with fractured rock fragments of granite gneiss								
3.60	3.80	0.20	0.10	50	-	Red brownish soil with fractured rock fragments of granite gneiss								
3.80	4.30	0.50	0.35	70	-	Red brownish soil with fractured rock fragments of granite gneiss								
4.30	4.80	0.50	0.45	90	-	Soil with fractured rock fragments of granite gneiss	LPA/G3/17-03	4.30	6.80	2.50	0.20	7.07	87.40	5.33
4.80	5.30	0.50	0.46	92	-	Soil with rock fragments of granite gneiss								
5.30	5.80	0.50	0.45	90	-	Soil with fractured rock fragments of granite gneiss								
5.80	6.30	0.50	0.45	90	-	Soil with fractured rock fragments of granite gneiss								
6.30	6.80	0.50	0.47	94	-	Soil with fractured rock fragments of granite gneiss								
6.80	7.30	0.50	0.42	84	-	Altered granite gneiss								
7.30	7.80	0.50	0.40	80	-	Altered granite gneiss	LPA/G3/17-04	6.80	10.80	4.00	0.35	4.48	93.90	1.27
7.80	8.30	0.50	0.40	80	-	Altered granite gneiss								
8.30	8.80	0.50	0.32	64	-	Altered granite gneiss								
8.80	9.30	0.50	0.48	96	-	Altered granite gneiss								
9.30	9.80	0.50	0.46	92	-	Altered granite gneiss								
9.80	10.30	0.50	0.42	84	-	Altered granite gneiss								
10.30	10.80	0.50	0.46	92	-	Altered granite gneiss								

10.80	11.30	0.50	0.48	96	-	Altered granite gneiss	LPA/G3/17-05	10.80	14.80	4.00	1.21	6.41	87.90	4.48
11.30	11.80	0.50	0.46	92	-	Altered granite gneiss								
11.80	12.30	0.50	0.48	96	-	Altered granite gneiss								
12.30	12.80	0.50	0.46	92	-	Altered granite gneiss								
12.80	13.30	0.50	0.47	94	-	Altered granite gneiss								
13.30	13.80	0.50	0.48	96	-	Altered granite gneiss								
13.80	14.30	0.50	0.46	92	-	Altered granite gneiss								
14.30	14.80	0.50	0.45	90	-	Altered granite gneiss								
14.80	15.30	0.50	0.45	90	-	Highly fractured granite gneiss	LPA/G3/17-06	14.80	18.80	4.00	0.20	3.64	94.10	2.06
15.30	15.80	0.50	0.46	92	-	Altered granite gneiss								
15.80	16.30	0.50	0.48	96	-	Altered granite gneiss								
16.30	16.80	0.50	0.48	96	-	Hard massive granite gneiss								
16.80	17.30	0.50	0.37	74	-	Highly fractured granite gneiss								
17.30	17.80	0.50	0.46	92	-	Highly fractured and altered granite gneiss								
17.80	18.30	0.50	0.40	80	-	Altered granite gneiss								
18.30	18.80	0.50	0.47	94	-	Altered granite gneiss								
18.80	19.30	0.50	0.38	76	-	Highly fractured granite gneiss	LPA/G3/17-07	18.80	22.80	4.00	0.29	2.60	95.20	1.91
19.30	19.80	0.50	0.40	80	-	Hard massive fractured granite gneiss								
19.80	20.30	0.50	0.42	84	-	Hard massive fractured granite gneiss								
20.30	20.80	0.50	0.38	76	-	Highly fractured and altered granite gneiss								
20.80	21.30	0.50	0.45	90	-	Highly fractured and altered granite gneiss								
21.30	21.80	0.50	0.45	90	-	Hard massive fractured granite gneiss								
21.80	22.30	0.50	0.43	86	-	Hard massive fractured granite gneiss								
22.30	22.80	0.50	0.48	96	-	Hard massive fractured granite gneiss								
22.80	23.30	0.50	0.48	96	85	Hard massive fractured granite gneiss	LPA/G3/17-08	22.80	26.80	4.00	0.69	5.03	92.10	2.18
23.30	23.80	0.50	0.45	90	-	Hard massive fractured granite gneiss								
23.80	24.30	0.50	0.42	84	-	Hard massive fractured granite gneiss								
24.30	24.80	0.50	0.46	92	-	Fractured granite gneiss								
24.80	25.30	0.50	0.45	90	-	Hard massive fractured granite gneiss								
25.30	25.80	0.50	0.44	88	-	Hard massive granite gneiss								
25.80	26.30	0.50	0.48	96	-	Hard massive fractured granite gneiss								
26.30	26.80	0.50	0.45	90	-	Fractured granite gneiss								
26.80	27.30	0.50	0.48	96	-	Hard massive fractured granite gneiss	LPA/G3/17-09	26.80	29.80	3.00	0.75	5.36	91.50	2.39
27.30	27.80	0.50	0.43	86	-	Hard massive fractured granite gneiss								
27.80	28.30	0.50	0.45	90	-	Hard massive fractured granite gneiss								
28.30	29.30	1.00	0.95	95	-	Hard massive fractured granite gneiss								
29.30	29.80	0.50	0.42	84	-	Hard massive fractured granite gneiss								

29.80	30.30	0.50	0.47	94	-	Hard massive fractured granite gneiss	LPA/G3/17-10	29.80	32.80	3.00	0.52	4.76	91.70	3.02
30.30	30.80	0.50	0.46	92	-	Altered granite gneiss								
30.80	31.30	0.50	0.42	84	-	Hard massive fractured granite gneiss								
31.30	31.80	0.50	0.48	96	85	Hard massive fractured granite gneiss								
31.80	32.30	0.50	0.46	92	-	Hard massive fractured granite gneiss								
32.30	32.80	0.50	0.40	80	-	Altered granite gneiss								
32.80	33.30	0.50	0.45	90	-	Hard massive granite gneiss	LPA/G3/17-11	32.80	35.00	2.20	0.04	2.90	94.75	2.31
33.30	33.80	0.50	0.47	94	-	Hard massive highly fractured granite gneiss with								
33.80	34.30	0.50	0.46	92	-	Highly fractured and altered granite gneiss								
34.30	35.00	0.70	0.68	97	-	Highly fractured granite gneiss								
Borehole closed at 35.00 m														

Logged by: Bhupati Kumar Nayak