

**Particulars of detailed litholog of the boreholes drilled by MECL in Deulha Block, Tehsil- Majhgawan, District-Satna, Madhya Pradesh**

**Borehole No.MDLH-01**

Northing (m) : 2755094.912  
 Easting (m): 479477.891  
 R.L(m): 336.812

Date of Commencement: 24.05.2025  
 Date of Closure: 27.05.2025  
 Total Depth(m): 55.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	0.50	73.33	0.50	0.00	Soil (Clay & sand)	Brown			
			2.20	2.50		3.00		Fine to Medium grained, brown coloured sandstone intercalated with green shale	Greenish Brown			Weathered
3.00	4.00	1.00	0.30	1.00	30.00	4.00	0.00	Fine to Medium grained, brown coloured sandstone intercalated with green shale	Greenish Brown	Broken		Weathered
4.00	7.00	3.00	0.50	2.14	23.33	6.14	0.00	Fine to Medium grained, brown coloured sandstone intercalated with green shale	Greenish Brown	Broken		Weathered
			0.20	0.86		7.00		Fine to Medium grained, creamish white coloured sandstone	Creamish White	Broken		Weathered
7.00	10.00	3.00	1.10	3.00	36.67	10.00	12.33	Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown	Broken		
10.00	13.00	3.00	1.05	3.00	35.00	13.00	0.00	Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown	Broken		
13.00	16.00	3.00	1.12	3.00	37.33	16.00	0.00	Grey coloured, laminated shale with interbeds of Chocolate coloured shale.	Grey	Broken		
16.00	19.00	3.00	1.05	1.05	100.00	17.05	0.00	Grey coloured, thin bedded to laminated shale	Grey			
			1.95	1.95		19.00		Grey calcareous shale with siltstone bands	Grey			Micaceous
19.00	22.00	3.00	1.20	1.20	100.00	20.20	33.26	Grey calcareous shale with siltstone bands with pyrite stringers	Grey	Vertical fractures	Pyrite stringers	
			1.80	1.80		22.00		Fine grained, light grey, compact limestone with pyrite stringers	Light grey	Fractured	Pyrite stringers	
22.00	25.00	3.00	3.00	3.00	100.00	25.00	53.33	Greyish green, fine grained, slightly ferruginous, glauconitic sandstone	Greyish green			Micaceous
25.00	28.00	3.00	2.90	3.00	96.67	28.00	62.14	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone	Reddish green			
28.00	31.00	3.00	3.00	3.00	100.00	31.00	72.18	Dark green, fine to medium grained, glauconitic sandstone	Dark green			
31.00	34.00	3.00	3.00	3.00	100.00	34.00	62.00	Dark green, fine to medium grained, glauconitic sandstone with thin chert bands	Green to dark green			
34.00	37.00	3.00	3.00	3.00	100.00	37.00	56.12	Dark green, fine to medium grained, glauconitic sandstone with thin chert bands and microcross beddings at few places	Green to dark green			
37.00	40.00	3.00	3.00	3.00	100.00	40.00	61.20	Dark green, fine to medium grained, glauconitic sandstone	Green to dark green			
40.00	43.00	3.00	3.00	3.00	100.00	43.00	72.27	Dark green, fine to medium grained, glauconitic sandstone with thin shale bands	Green to dark green			
43.00	46.00	3.00	2.00	2.00	100.00	45.00	38.20	Dark green, fine to medium grained, glauconitic sandstone with thin shale bands	Green to dark green			
			1.00	1.00		46.00		Grey to greyish black compact calcareous shale	Grey	Fractured		
46.00	49.00	3.00	3.00	3.00	100.00	49.00	12.22	Grey to greyish black compact shale	Grey			
49.00	52.00	3.00	3.00	3.00	100.00	52.00	0.00	Grey and red coloured compact shale	Grey and Red			
52.00	55.00	3.00	3.00	3.00	100.00	55.00	0.00	Grey and red coloured compact shale	Grey and Red			

**Borehole No.MDLH-02**

Northing (m) : 2755107.848  
 Easting (m): 476651.492  
 R.L(m): 318.009

Date of Commencement: 25.05.2025  
 Date of Closure: 28.05.2025  
 Total Depth(m): 45.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	3.00	0.00	3.00	0.00	Soil (Clay & Sand)	Brown			
3.00	4.00	1.00	0.45	1.00	45.00	4.00	0.00	Fine grained, creamish white coloured sandstone	Creamish White	Broken		Weathered
4.00	7.00	3.00	0.98	1.40	70.00	5.40	0.00	Green colored shale with Fine to Medium grained with thin sandstone bands	Greenish Brown	Broken		Weathered
			1.12	1.60		7.00		Fine grained, creamish white coloured sandstone/quartz arenite	Creamish White	Broken/Fractured		Weathered
7.00	10.00	3.00	2.48	2.58	96.00	9.58	14.14	Fine grained, creamish white coloured sandstone/quartz arenite	Creamish White	Broken		
			0.40	0.42		10.00		Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown			
10.00	13.00	3.00	1.38	1.51	91.33	11.51	0.00	Chocolate coloured, laminated shale with interbeds of grey shale	Chocolate Brown			
			1.36	1.49		13.00		Grey coloured, laminated, interbedded shale	Grey	Fractured		
13.00	16.00	3.00	2.00	2.00	100.00	15.00	24.22	Grey coloured, laminated, interbedded shale	Grey to dark grey	Fractured		
			1.00	1.00		16.00		Fine grained, light grey, compact limestone with pyrite stringers	Light grey		Pyrite stringers	
16.00	19.00	3.00	0.60	0.60	100.00	16.60	48.40	Fine grained, light grey, compact limestone with pyrite stringers	Light grey	Fracture @ 20° wrt CA	Pyrite stringers	
			2.40	2.40		19.00		Green to dark green, fine to medium grained, glauconitic sandstone	Green to Dark green			Micaceous
19.00	22.00	3.00	3.00	3.00	100.00	22.00	56.72	Green to dark green, fine to medium grained, glauconitic sandstone	Green to Dark green	Vertical fractures	Pyrite stringers	
22.00	25.00	3.00	1.50	1.50	100.00	23.50	44.90	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone with thin chert bands	Reddish green		Glauconite	Micaceous
			1.50	1.50		25.00		Green coloured, fine grained, slightly ferruginous, glauconitic sandstone with thin chert bands and pyrite stringers	Green		Glauconite	
25.00	28.00	3.00	3.00	3.00	100.00	28.00	67.34	Green coloured, fine grained glauconitic sandstone with thin chert bands	Green		Glauconite	
28.00	31.00	3.00	3.00	3.00	100.00	31.00	74.58	Green coloured, fine to medium grained glauconitic sandstone	Green		Glauconite	
31.00	34.00	3.00	3.00	3.00	100.00	34.00	58.78	Green coloured, fine to medium grained glauconitic sandstone	Green		Glauconite	
34.00	37.00	3.00	3.00	3.00	100.00	37.00	78.90	Green coloured, fine to medium grained glauconitic sandstone with shale bands towards bottom	Green		Glauconite	
37.00	40.00	3.00	0.30	0.30	100.00	37.30	46.60	Green coloured, fine to medium grained glauconitic sandstone	Green		Glauconite	
			1.20	1.20		38.50		Greyish green coloured, compact, massive, calcareous shale with pyrite stringers	Greyish green		Pyrite stringers	
			1.50	1.50		40.00		Grey and red coloured compact shale	Grey and red			
40.00	43.00	3.00	3.00	3.00	100.00	43.00	11.10	Grey and red coloured compact shale	Grey and red			
43.00	45.00	2.00	2.00	2.00	100.00	45.00	0.00	Grey and red coloured compact shale	Grey and red			

**Borehole No.MDLH-03**

 Northing (m) : 2755341.537  
 Easting (m): 477455.965  
 R.L(m): 333.006

 Date of Commencement: 28.05.2025  
 Date of Closure: 31.05.2025  
 Total Depth(m): 57.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	3.00	0.00	3.00	0.00	Soil (Clay & sand)	Brown			
3.00	4.00	1.00	0.58	1.00	58.00	4.00	0.00	Fine grained, compact, greyish white sandstone	Greyish White	Broken		Weathered
4.00	7.00	3.00	0.90	3.00	30.00	7.00	0.00	Green coloured shale	Greenish Brown	Broken	Glauconite	Weathered
7.00	10.00	3.00	0.55	1.15	47.67	8.15	0.00	Fine to medium grained, compact, creamish white coloured sandstone	Creamish White	Massive	Glauconite	Weathered
			0.88	1.85		10.00		Green and grey coloured, interbedded shale	Greenish grey		Glauconite	
10.00	13.00	3.00	2.93	3.00	97.67	13.00	0.00	Green and grey coloured, interbedded shale	Greenish grey			
13.00	16.00	3.00	3.00	3.00	100.00	16.00	0.00	Greyish green and red coloured, interbedded shale	Greyish green			
16.00	19.00	3.00	3.00	3.00	100.00	19.00	22.12	Greyish green coloured, interbedded shale with thin siltstone bands	Greyish green			
19.00	22.00	3.00	1.00	1.00	100.00	20.00	13.39	Greyish green coloured, interbedded shale with thin siltstone bands	Greyish green			
			1.60	1.60		21.60		Greyish white to cream coloured fine grained sandstone	Creamish White	Vertical fractures		
			0.40	0.40		22.00		Green coloured shale interbedded with sandstone	Green			
22.00	25.00	3.00	1.00	1.00	100.00	23.00	8.58	Fine grained, compact, creamish white sandstone with green shale bands	Creamish White			
			0.30	0.30		23.30		Conglomerate zone, pebbles in green shale	Green			
			0.30	0.30		23.60		Greenish grey coloured shale	Greenish grey			
			1.40	1.40		25.00		Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate brown			
25.00	28.00	3.00	2.00	2.00	100.00	27.00	0.00	Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate brown			
			1.00	1.00		28.00		Grey coloured, laminated, interbedded shale	Grey			
28.00	31.00	3.00	2.20	2.20	100.00	30.20	32.10	Grey coloured, laminated, interbedded shale	Grey			
			0.80	0.80		31.00		Fine grained, light grey, compact limestone with pyrite stringers	Light grey		Pyrite stringers	
31.00	34.00	3.00	0.50	0.50	100.00	31.50	48.90	Fine grained, light grey, compact limestone with pyrite stringers	Light grey		Pyrite stringers	
			2.50	2.50		34.00		Green to dark green, fine to medium grained, glauconitic sandstone	Green to dark green		Glauconite	Micaceous
34.00	37.00	3.00	3.00	3.00	100.00	37.00	65.59	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone with thin chert bands	Reddish green		Glauconite	
37.00	40.00	3.00	3.00	3.00	100.00	40.00	67.76	Green to dark green, fine to medium grained, glauconitic sandstone	Green to dark green	Microcross beddings	Glauconite	
40.00	43.00	3.00	3.00	3.00	100.00	43.00	74.40	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
43.00	46.00	3.00	3.00	3.00	100.00	46.00	59.14	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
46.00	49.00	3.00	3.00	3.00	100.00	49.00	78.12	Green coloured, fine to medium grained, glauconitic sandstone	Green	Microcross beddings	Glauconite	

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
49.00	52.00	3.00	3.00	3.00	100.00	52.00	48.88	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
52.00	55.00	3.00	0.60	0.60	100.00	52.60	23.12	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
			1.20	1.20		53.80		Grey to greyish black compact calcareous shale	Grey			
			1.20	1.20		55.00		Grey and red coloured compact shale	Grey and red			
55.00	57.00	2.00	2.00	2.00	100.00	57.00	0.00	Grey and red coloured compact shale	Grey and red			

**Borehole No.MDLH-04**

 Northing (m) : 2755561.872  
 Easting (m): 478250.552  
 R.L(m): 320.552

 Date of Commencement: 29.05.2025  
 Date of Closure: 02.06.2025  
 Total Depth(m): 45.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	2.50	13.33	2.50	0.00	Soil (Clay & sand)	Brown			
			0.40	0.50		3.00		Reddish green, weathered shale	Reddish green			
3.00	4.00	1.00	0.30	1.00	30.00	4.00	0.00	Reddish green, weathered shale	Reddish green	Broken		Weathered
4.00	7.00	3.00	1.00	1.25	80.00	5.25	0.00	Green coloured shale	Greenish Brown	Broken	Glauconitic	Weathered
			1.40	1.75		7.00		Green and grey coloured, interbedded shale	Greenish grey		Glauconitic	
7.00	10.00	3.00	1.50	1.50	100.00	8.50	0.00	Green and grey coloured shale interbedded with thin sandstone bands	Greenish grey		Glauconitic	Weathered
			1.50	1.50		10.00		Greyish white to cream coloured fine grained sandstone	Greyish white			
10.00	13.00	3.00	0.65	0.74	88.33	10.74	9.12	Greyish white to cream coloured fine grained sandstone	Greyish white			
			0.90	1.02		11.75		Fine grained sandstone with shale band				
			0.60	0.68		12.43		Grey coloured interbedded, laminated shale				
			0.50	0.57		13.00		Chocolate coloured, laminated, interbedded shale	Chocolate brown			
13.00	16.00	3.00	3.00	3.00	100.00	16.00	0.00	Chocolate coloured, laminated, interbedded shale	Chocolate brown			
16.00	19.00	3.00	0.50	0.50	100.00	16.50	0.00	Chocolate coloured, laminated, interbedded shale	Chocolate brown			
			2.50	2.50		19.00		Grey coloured, laminated, interbedded shale	Grey			
19.00	22.00	3.00	0.90	0.90	100.00	19.90	27.82	Grey coloured, laminated, interbedded shale	Grey			
			1.10	1.10		21.00		Fine grained, light grey, compact limestone with pyrite stringers	Light grey		Pyrite stringers	
			1.00	1.00		22.00		Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
22.00	25.00	3.00	3.00	3.00	100.00	25.00	58.12	Green to dark green, fine to medium grained, glauconitic sandstone	Green to dark green	Microcross beddings	Glauconite	
25.00	28.00	3.00	3.00	3.00	100.00	28.00	84.56	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
28.00	31.00	3.00	3.00	3.00	100.00	31.00	75.40	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
31.00	34.00	3.00	3.00	3.00	100.00	34.00	48.87	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
34.00	37.00	3.00	3.00	3.00	100.00	37.00	65.48	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
37.00	40.00	3.00	3.00	3.00	100.00	40.00	59.10	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
40.00	43.00	3.00	1.50	3.00	50.00	43.00	38.14	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
			1.50					Grey to greyish black compact calcareous shale				
43.00	45.00	2.00	2.00	2.00	100.00	45.00	0.00	Grey to greyish black compact calcareous shale	Grey		Glauconite	

**Borehole No.MDLH-05**

 Northing (m) : 2754874.127  
 Easting (m): 478673.464  
 R.L(m): 344.090

 Date of Commencement: 01.06.2025  
 Date of Closure: 03.06.2025  
 Total Depth(m): 56.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	2.70	8.33	2.70	0.00	Soil (Clay & sand)	Brown			
			0.25	0.30		3.00		Greyish brown coloured fine grained sandstone	Greenish Brown			
3.00	4.00	1.00	0.40	1.00	40.00	4.00	0.00	Greyish brown coloured fine grained sandstone	Greenish Brown	Broken		Weathered
4.00	7.00	3.00	0.80	3.00	26.67	7.00	0.00	Greyish brown coloured fine grained sandstone	Greenish Brown	Broken		Weathered
7.00	10.00	3.00	1.65	3.00	55.00	10.00	0.00	Green and grey coloured, interbedded, ferruginous shale	Greenish grey		Glauconitic	Weathered
10.00	13.00	3.00	2.00	3.00	66.67	13.00	8.78	Greyish white to cream coloured fine grained sandstone interbedded with grey shale	Greyish white		Glauconitic	Ferruginous
13.00	16.00	3.00	2.70	3.00	90.00	16.00	12.28	Green and grey coloured shale interbedded with thin sandstone bands	Greenish grey			Ferruginous
16.00	19.00	3.00	0.70	0.78	90.00	16.78	0.00	Green and grey coloured shale interbedded with thin sandstone bands	Greenish grey			Ferruginous
			2.00	2.22		19.00		Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown			
19.00	22.00	3.00	1.10	3.00	36.67	22.00	0.00	Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown			
22.00	25.00	3.00	0.30	0.95	31.67	22.95	0.00	Calcareous grey colored sandy shale	Grey	Compact		
			0.65	2.05		25.00		Calcareous grey colored sandy shale/siltstone	Grey	Compact		
25.00	28.00	3.00	0.50	0.71	70.00	25.71	18.76	Calcareous grey colored sandy shale/siltstone	Grey	Compact		
			1.60	2.29		28.00		Fine grained, light grey, compact limestone with pyrite stringers	Light grey	Broken	Pyrite stringers	
28.00	31.00	3.00	0.80	2.00	40.00	30.00	14.49	Fine grained, light grey, compact limestone with pyrite stringers	Light grey	Broken		
			0.80	1.00	80.00	31.00		Green to dark green, fine to medium grained, glauconitic sandstone	Green	Broken	Glauconite	
31.00	34.00	3.00	2.60	3.00	86.67	34.00	47.66	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone with thin chert bands	Reddish green		Glauconite	
34.00	37.00	3.00	3.00	3.00	100.00	37.00	63.28	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone with thin shalebands	Reddish green	Cross bedding	Glauconite	
37.00	40.00	3.00	2.00	2.00	100.00	39.00	49.90	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone with thin chert bands	Reddish green		Glauconite	
			1.00	1.00		40.00		Green to dark green, fine to medium grained, glauconitic sandstone	Green		Glauconite	
40.00	43.00	3.00	3.00	3.00	100.00	43.00	58.67	Green to dark green, fine to medium grained, glauconitic sandstone	Green	Vertical fractures	Glauconite	
43.00	46.00	3.00	3.00	3.00	100.00	46.00	71.25	Green to dark green, fine to medium grained, glauconitic sandstone	Green	Fracture @ 50° wrt CA	Glauconite	
46.00	49.00	3.00	3.00	3.00	100.00	49.00	66.83	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
49.00	52.00	3.00	3.00	3.00	100.00	52.00	53.74	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
52.00	55.00	3.00	1.50	1.50	100.00	53.50	33.25	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
			1.00	1.50		55.00		Grey to greyish black compact calcareous shale	Grey	Highly broken/Fractured		
55.00	56.00	1.00	1.00	1.00	100.00	56.00	0.00	Grey to greyish black compact calcareous shale	Grey		Glauconite	

**Borehole No.MDLH-06**

Northing (m) : 2756235.239  
 Easting (m): 479694.906  
 R.L(m): 334.348

Date of Commencement: 03.06.2025  
 Date of Closure: 06.06.2025  
 Total Depth(m): 58.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	3.00	0.00	3.00	0.00	Soil (Clay & sand)	Brown			
3.00	4.00	1.00	0.30	1.00	30.00	4.00	0.00	Greyish white, fine grained sandstone / Quartz arenite	Greyish white	Broken		Weathered
4.00	7.00	3.00	0.90	3.00	26.67	7.00	0.00	Light greenish grey, fine grained sandstone	Greenish grey	Highly Broken, Fractured @ 30° wrt CA	Mild Glauconitic?	Weathered
7.00	10.00	3.00	2.00	3.00	66.67	10.00		Light greenish grey, fine grained sandstone with green shale bands	Greenish grey		Mild Glauconitic?	Weathered
10.00	13.00	3.00	0.60	0.64	93.33	10.64	0.00	Light greenish grey, fine grained sandstone with green shale bands	Greenish grey			
			2.20	2.36		13.00		Green and grey coloured laminated interbedded shale	Greenish grey			
13.00	16.00	3.00	1.80	3.00	60.00	16.00	3.33	Green and red coloured laminated interbedded shale	Greenish red			
16.00	19.00	3.00	2.80	3.00	90.00	19.00	0.00	Green and grey coloured laminated interbedded shale with pyrite stringers	Greenish grey		Pyrite stringers	
19.00	22.00	3.00	1.70	2.22	56.67	21.22	0.00	Green and grey coloured laminated interbedded shale with pyrite stringers	Greenish grey		Pyrite stringers	
			0.60	0.78		22.00		Greyish white, fine grained sandstone	Greyish white	Broken/Fractured		
22.00	25.00	3.00	1.90	2.59	73.33	24.59	0.00	Greyish white, fine grained sandstone	Greyish white			
			0.30	0.41		25.00		Light grey coloured, interbedded shale	Grey			
25.00	28.00	3.00	0.35	0.40	88.33	25.40	0.00	Light grey coloured, interbedded shale	Grey	Compact		
			2.30	2.60		28.00		Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown	Broken	Pyrite stringers	
28.00	31.00	3.00	3.00	3.00	100.00	31.00	0.00	Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown	Broken		
31.00	34.00	3.00	0.30	0.30	100.00	31.30	0.00	Chocolate coloured, laminated shale with interbeds of grey shale.	Chocolate Brown			
			2.70	2.70		34.00		Grey shale with pyrite stringers	Chocolate Brown			
34.00	37.00	3.00	1.00	1.00	100.00	35.00	38.33	Grey to dark grey shale	Grey			
			1.00	1.00		36.00		Fine grained, light grey, compact limestone with pyrite stringers				
			1.00	1.00		37.00		Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
37.00	40.00	3.00	2.50	2.50	100.00	39.50	66.00	Reddish green, fine grained, slightly ferruginous, glauconitic sandstone with thin shale bands	Reddish green		Glauconite	
			0.50	0.50		40.00		Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
40.00	43.00	3.00	3.00	3.00	100.00	43.00	39.00	Green coloured, fine to medium grained, glauconitic sandstone	Green		Glauconite	
43.00	46.00	3.00	1.00	1.00	100.00	44.00	50.00	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
			2.00	2.00		46.00		Green coloured, fine to medium grained, glauconitic sandstone with thin shale bands	Green		Glauconite	

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
46.00	49.00	3.00	3.00	3.00	100.00	49.00	75.00	Green coloured, fine to medium grained, glauconitic sandstone with thin shale bands	Green		Glauconite	
49.00	52.00	3.00	3.00	3.00	100.00	52.00	74.67	Green coloured, fine to medium grained, glauconitic sandstone	Green		Glauconite	
52.00	55.00	3.00	3.00	3.00	100.00	55.00	60.67	Green coloured, fine to medium grained, glauconitic sandstone	Green		Glauconite	
55.00	58.00	3.00	1.70	1.70	100.00	56.70	49.33	Green coloured, fine to medium grained, glauconitic sandstone	Green		Glauconite	
			1.30	1.30		58.00		Grey and red coloured compact shale	Grey & red			

**Borehole No.MDLH-07**

 Northing (m) : 2754616.950  
 Easting (m): 476008.537  
 R.L(m): 369.241

 Date of Commencement: 22.06.2025  
 Date of Closure: 25.06.2025  
 Total Depth(m): 40.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	2.40	17.33	2.40	0.00	Soil (Clay & sand)	Brown			
			0.52	0.60		3.00		Brownish white, fine grained sandstone interbedded with red and green shale	Brownish white			
3.00	4.00	1.00	0.55	1.00	55.00	4.00	0.00	Brownish white, fine grained sandstone interbedded with red and green shale	Brownish white			Weathered
4.00	7.00	3.00	0.30	0.53	56.67	4.53	4.67	Brownish white, fine grained sandstone interbedded with red and green shale	Brownish white	Broken		Weathered
			1.40	2.47		7.00		Fine to medium grained, compact, greyish white sandstone	Greyish white			Ferruginous
7.00	10.00	3.00	0.25	0.33	76.67	7.33	0.00	Fine to medium grained, compact, greyish white sandstone	Greyish white			Ferruginous
			0.65	0.85		8.17		Grey coloured, fine grained sandstone interbedded with green shale	Grey			
			0.90	1.17		9.35		Green shale with grey shale bands	Greenish grey			
			0.50	0.65		10.00		Grey shale	Grey			
10.00	13.00	3.00	1.30	1.77	94.00	11.77	11.00	Greenish grey coloured, sandy shale	Greenish grey			
			0.90	1.23		13.00		Dark grey, laminated shale	Dark grey			
13.00	16.00	3.00	1.80	1.80	100.00	14.80	6.67	Dark grey, laminated shale	Dark grey	Fracture		
			1.20	1.20		16.00		Fine grained, light grey, compact limestone	Light grey			
16.00	19.00	3.00	3.00	3.00	100.00	19.00	32.00	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green	Cross beddings	Glauconite	
19.00	22.00	3.00	3.00	3.00	100.00	22.00	28.00	Green coloured, fine to medium grained, glauconitic sandstone	Green	Fracture @ 15° wrt CA at 20.20m	Glauconite	
22.00	25.00	3.00	3.00	3.00	100.00	25.00	44.67	Green to dark green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green		Glauconite	
25.00	28.00	3.00	3.00	3.00	100.00	28.00	84.33	Greyish green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green	Fracture @ 30° wrt CA at 25.40m	Glauconite	
28.00	31.00	3.00	3.00	3.00	100.00	31.00	61.67	Green to dark green coloured, fine to medium grained, glauconitic sandstone	Green		Glauconite	
31.00	34.00	3.00	3.00	3.00	100.00	34.00	35.67	Green to dark green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green	Fracture @ 30° wrt CA at 31.30m	Glauconite	
34.00	37.00	3.00	2.80	3.00	93.33	37.00	50.67	Green to dark green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green	Fracture @ 35° wrt CA at 35.40m	Glauconite	
37.00	40.00	3.00	1.00	1.00	100.00	38.00	23.33	Green to dark green coloured, fine to medium grained, glauconitic sandstone with thin shale bands	Green	Fracture @ 40° wrt CA at 37.20m	Glauconite	
			2.00	2.00		40.00		Grey to greyish black compact calcareous shale	Grey			

**Borehole No.MDLH-08**

Northing (m) : 2754398.282  
 Easting (m): 477079.035  
 R.L(m): 326.399

Date of Commencement: 25.06.2025  
 Date of Closure: 28.06.2025  
 Total Depth(m): 37.00

Run (m)			Core Reco- very (m)	Extra- polated Thick- ness (m)	Core Reco- very (%)	Floor Depth (m)	RQD (%)	Lithology	Colour	Structural Features	Mineralization Details	Remarks
From	To	Thick- ness										
0.00	3.00	0.50	-	1.00	50.00	1.00	0.00	Soil (Clay )	Brown			
			1.50	2.00		3.00		Brownish white, fine to medium grained sandstone interbedded with red and green shale	Brownish white			Ferruginous
3.00	4.00	1.00	0.30	1.00	30.00	4.00	0.00	Green and red coloured laminated interbedded shale	Red and green			Weathered
4.00	7.00	3.00	0.63	1.09	57.67	5.09	0.00	Green colored shale	Brownish white	Broken		Micaceous
			1.10	1.91		7.00		Greyish white, fine grained, compact calcareous shale	Greyish white			Ferruginous
7.00	10.00	3.00	1.35	3.00	45.00	10.00	4.00	Greyish white, fine grained, compact calcareous shale	Greyish white	Fracture @ 15° wrt CA		Ferruginous, W.M
10.00	13.00	3.00	0.80	0.90	88.89	10.90	8.67	Greenish grey coloured, laminated, interbedded calcareous shale	Greenish grey			
			1.00	1.10	90.91	12.00		Fine grained, light grey, cherty, compact limestone	Light grey			
			1.00	1.00	100.00	13.00		Dark green coloured, fine to medium grained, glauconitic sandstone	Dark green	Fracture @ 28° wrt CA at 12.80m	Glauconite	
13.00	16.00	3.00	3.00	3.00	100.00	16.00	26.00	Dark green coloured, fine to medium grained, glauconitic sandstone	Dark green			
16.00	19.00	3.00	3.00	3.00	100.00	19.00	15.67	Dark green coloured, fine to medium grained, glauconitic sandstone with chert bands	Dark green	Cross beddings	Glauconite	
19.00	22.00	3.00	2.70	3.00	90.00	22.00	8.33	Dark green coloured, fine to medium grained, glauconitic sandstone	Dark green	Cross beddings	Glauconite	
22.00	25.00	3.00	3.00	3.00	100.00	25.00	30.67	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green	Fracture @ 28° at 22.60 & @ 30° at 23.30wrt CA	Glauconite	
25.00	28.00	3.00	3.00	3.00	100.00	28.00	78.33	Green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Green	Fracture @ 30° wrt CA at 25.40m	Glauconite	
28.00	31.00	3.00	3.00	3.00	100.00	31.00	70.00	Greyish green coloured, fine to medium grained, glauconitic sandstone	Green		Glauconite	
31.00	34.00	3.00	3.00	3.00	100.00	34.00	35.33	Greyish green coloured, fine to medium grained, glauconitic sandstone with thin chert bands	Greyish green	Fractured	Glauconite	
34.00	37.00	3.00	1.60	3.00	53.33	37.00	0.00	Grey coloured compact calcareous shale	Grey		Glauconite	