

**Statement Showing run-wise lithologs of boreholes MKML-09, 10 and 11 drilled by MECL, Malkhed - 2 North Block,
Kalaburagi District, Karnataka.
BOREHOLE NO MKML-09**

Northing 1900653.946
 Easting 736055.542
 R.L.(m): 422.127

Date of Commencement: 19.03.2025
 Date of Closure: 20.03.2025
 Angle of Borehole: Vertical
 Core size: NQ

Run (m)			Rec. Thick (m)	Rec. (%)	Floor Depth Rl (m)	Lithology	Colour	Structural/ Nature Details	Remarks
From	To	Run (m)							
0.00	3.00	3.00	1.00	33.33	3.00	Sticky Soil	Brownish grey	Loose	
3.00	4.00	1.00	0.50	50.00	4.00	Sticky Soil	Brownish grey	Loose	
4.00	5.00	1.00	0.90	90.00	5.00	Limestone	Greyish white	Medium hard & fractured	Horizontal weak planes with silica
5.00	8.00	3.00	3.00	100.00	8.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
8.00	11.00	3.00	2.80	93.33	11.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
11.00	14.00	3.00	3.00	100.00	14.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
14.00	17.00	3.00	2.60	86.67	17.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
17.00	20.00	3.00	2.80	93.33	20.00	Limestone	Greyish white	Very hard & fractured	More horizontal weak planes with little more silica
20.00	23.00	3.00	3.00	100.00	23.00	Limestone	Greyish white	Very hard & fractured	More horizontal weak planes with little more silica
23.00	26.00	3.00	3.00	100.00	26.00	Limestone	Greyish white	Very hard & fractured	More horizontal weak planes with little more silica
26.00	29.00	3.00	2.90	96.67	29.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
29.00	32.00	3.00	3.00	100.00	32.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica

Run (m)			Rec. Thick (m)	Rec. (%)	Floor Depth Rl (m)	Lithology	Colour	Structural/ Nature Details	Remarks
From	To	Run (m)							
32.00	35.00	3.00	3.00	100.00	35.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
35.00	38.00	3.00	3.00	100.00	38.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
38.00	41.00	3.00	3.00	100.00	41.00	Limestone	Greyish white	Medium hard & fractured	More horizontal weak planes with little more silica
41.00	44.00	3.00	3.00	100.00	44.00	Limestone	Grey	Very hard & fractured	Horizontal weak planes with little silica
44.00	47.00	3.00	3.00	100.00	47.00	Limestone	Grey	Very hard & fractured	Horizontal weak planes with little silica
47.00	50.00	3.00	3.00	100.00	50.00	Limestone	Grey	Very hard & fractured	Horizontal weak planes with little silica

BOREHOLE NO MKML-10

Northing 1899969.335
 Easting 737708.208
 R.L.(m): 421.366

Date of Commencement: 22.03.2025
 Date of Closure: 30.03.2025
 Angle of Borehole: Vertical
 Core size: NQ

Run (m)			Rec. Thick (m)	Rec. (%)	Floor Depth Rl (m)	Lithology	Colour	Structural/ Nature Details	Remarks
From	To	Run (m)							
0.00	1.00	1.00	1.00	100.00	1.00	Sticky Soil	Brownish grey	Loose	
1.00	3.00	2.00	1.00	50.00	3.00	Sticky Sil Clay	Brownish white	Loose	
3.00	5.00	2.00	2.00	100.00	5.00	Sticky Sil Clay	Brownish white	Loose	Medium grained sandy
5.00	6.00	1.00	1.00	100.00	6.00	Sticky Sil Clay	Brownish white	Loose	Medium grained sandy
6.00	7.00	1.00	1.00	100.00	7.00	Sticky Sil Clay	Brownish white	Loose	Medium grained sandy
7.00	8.00	1.00	0.85	85.00	8.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica
8.00	10.00	2.00	2.00	100.00	10.00	Siliceous clay	Brownish white	Clayee and compact	
10.00	11.00	1.00	1.00	100.00	11.00	Limestone	Whitish brown	Medium hard & broken	More horizontal weak planes with little more silica
11.00	12.60	1.60	1.50	93.75	12.60	Limestone	Whitish brown	Medium hard & broken	More horizontal weak planes with little more silica
12.60	14.00	1.40	1.35	96.43	14.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
14.00	17.00	3.00	2.80	93.33	17.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica
17.00	18.00	1.00	1.00	100.00	18.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica
18.00	19.00	1.00	0.80	80.00	19.00	Siliceous clay	Brownish white	Clayee and compact	
19.00	20.00	1.00	0.80	80.00	20.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
20.00	21.50	1.50	0.80	53.33	21.50	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
21.50	23.00	1.50	1.40	93.33	23.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica

Run (m)			Rec. Thick (m)	Rec. (%)	Floor Depth RI (m)	Lithology	Colour	Structural/ Nature Details	Remarks
From	To	Run (m)							
23.00	25.00	2.00	2.00	100.00	25.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
25.00	26.00	1.00	0.90	90.00	26.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
26.00	27.00	1.00	0.75	75.00	27.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
27.00	28.00	1.00	0.95	95.00	28.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
28.00	29.00	1.00	0.90	90.00	29.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
29.00	30.00	1.00	0.80	80.00	30.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
30.00	31.00	1.00	0.90	90.00	31.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
31.00	32.00	1.00	1.00	100.00	32.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
32.00	35.00	3.00	2.60	86.67	35.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
35.00	38.00	3.00	2.10	70.00	38.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little more silica
38.00	41.00	3.00	2.70	90.00	41.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica
41.00	44.00	3.00	2.50	83.33	44.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica
44.00	47.00	3.00	1.80	60.00	47.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica
47.00	50.00	3.00	2.50	83.33	50.00	Limestone	Pale white	Medium hard & broken	More horizontal weak planes with little silica

BOREHOLE NO MKML-11

Northing 1899913.387
 Easting 736111.646
 R.L.(m): 424.970

Date of Commencement: 01.04.2025
 Date of Closure: 03.04.2025
 Angle of Borehole: Vertical
 Core size: NQ

Run (m)			Rec. Thick (m)	Rec. (%)	Floor Depth RI (m)	Lithology	Colour	Structural/ Nature Details	Remarks
From	To	Run (m)							
0.00	2.00	2.00	2.00	100.00	2.00	Sticky Soil	Blackish brown	Loose and sticky	
2.00	5.00	3.00	3.00	100.00	5.00	Sandy clay	Brown	Loose and sandy	
5.00	6.00	1.00	1.00	100.00	6.00	Sandy clay	Brown	Loose and sandy	
6.00	6.70	0.70	0.60	85.71	6.70	Pale Whitish brown compact core of clay.	Pale brown	Compact	
6.70	7.40	0.70	0.65	92.86	7.40	Pale Whitish brown compact core of clay.	Pale brown	Compact	
7.40	9.00	1.60	1.60	100.00	9.00	Pale Whitish brown compact core of clay.	Pale brown	Compact	
9.00	10.00	1.00	1.00	100.00	10.00	Sandy clay	Brown	Loose and sandy	
10.00	10.65	0.65	0.55	84.62	10.65	Pale Whitish brown compact core of clay.	Pale brown	Compact	
10.65	11.30	0.65	0.55	84.62	11.30	Pale brownish compact core of clay.	Pale brown	Compact	
11.30	13.60	2.30	2.00	86.96	13.60	Sandy clay	Brown	Loose and sandy	
13.60	14.40	0.80	0.70	87.50	14.40	Pale Whitish brown compact core of clay.	Pale brown	Compact	
14.40	16.70	2.30	2.00	86.96	16.70	Sandy clay	Brown	Loose and sandy	
16.70	17.35	0.65	0.50	76.92	17.35	Pale Whitish brown compact core of clay.	Pale brown	Compact	
17.35	19.40	2.05	2.00	97.56	19.40	Sandy clay	Brown	Loose and sandy	
19.40	20.40	1.00	1.00	100.00	20.40	Pale Whitish brown compact core of marl with clay.	Whitish brown	Compact	
20.40	22.40	2.00	1.80	90.00	22.40	Sandy clay	Brown	Loose and sandy	
22.40	23.20	0.80	0.80	100.00	23.20	Pale Whitish brown compact core of clay.	Pale brown	Compact	
23.20	24.60	1.40	1.30	92.86	24.60	Pale Whitish brown compact core of clay.	Pale brown	Compact	

Run (m)			Rec. Thick (m)	Rec. (%)	Floor Depth RI (m)	Lithology	Colour	Structural/ Nature Details	Remarks
From	To	Run (m)							
24.60	26.00	1.40	0.90	64.29	26.00	Pale brownish white compact core of clay.	Pale brown	Compact	
26.00	27.00	1.00	1.00	100.00	27.00	Sandy clay	Brown	Loose and sandy	
27.00	28.50	1.50	1.00	66.67	28.50	Pale brownish white compact core of clay.	Brown	Compact	
28.50	30.00	1.50	1.00	66.67	30.00	Pale brownish white compact core of clay.	Brown	Compact	
30.00	31.50	1.50	0.50	33.33	31.50	Pale brownish white compact core of clay.	Brown	Compact	
31.50	32.30	0.80	0.65	81.25	32.30	Pale brownish compact core of clay.	Brown	Compact	
32.30	34.60	2.30	2.00	86.96	34.60	Sandy clay	Brown	Loose and sandy	
34.60	35.40	0.80	0.75	93.75	35.40	Pale brownish compact core of clay.	Brown	Compact	
35.40	37.50	2.10	2.00	95.24	37.50	Sandy clay	Brown	Loose and sandy	
37.50	39.30	1.80	1.60	88.89	39.30	Pale brownish compact core of clay.	Brown	Compact	
39.30	40.30	1.00	0.95	95.00	40.30	Limestone	White	Hard & Compact, fractured	Horizontal weak planes.
40.30	41.30	1.00	0.95	95.00	41.30	Limestone	White	Hard & Compact, fractured	Horizontal weak planes.
41.30	43.00	1.70	1.60	94.12	43.00	Sandy clay	Brown	Loose and sandy	
43.00	45.00	2.00	2.00	100.00	45.00	Sandy clay	Brown	Loose and sandy	
45.00	45.40	0.40	0.40	100.00	45.40	Limestone with clay	White	Compact, fractured	Horizontal weak planes.
45.40	45.90	0.50	0.50	100.00	45.90	Sandy clay	Brown	Loose and sandy	
45.90	47.00	1.10	1.10	100.00	47.00	Limestone	White	Hard & Compact, fractured	Horizontal weak planes.
47.00	48.00	1.00	0.50	50.00	48.00	Sandy clay	Brown	Loose and sandy	
48.00	49.00	1.00	1.00	100.00	49.00	Sandy clay	Brown	Loose and sandy	
49.00	50.00	1.00	1.00	100.00	50.00	Sandy clay	Brown	Loose and sandy	