

**DETAILED RUN-WISE LITHOLOGS OF BOREHOLES DRILLED BY MECL,DHRANG BLOCK, DISTRICT - KACHCHH, GUJARAT**

**Bore hole No. MBD-01**

**Northing- 2603114.148**

**Easting-490104.099**

**R.L.(m): 10118.54**

**Date of Commencement: 01.11.2025**

**Date of Closure: 07.11.2025**

**Total Depth (m) :24.00**

Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
0.00	0.50	0.50	0.50	100%	Brownish Pink	Bauxite	
0.50	1.00	0.50	0.50	100%	Reddish Brown	Bauxite	
1.00	1.50	0.50	0.50	100%	Reddish Brown	Bauxite	
1.50	2.00	0.50	0.50	100%	Reddish	Bauxite	
2.00	2.50	0.50	0.50	100%	Reddish	Bauxite	
2.50	3.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
3.00	3.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
3.50	4.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
4.00	4.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
4.50	5.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
5.00	5.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
5.50	6.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
6.00	6.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
6.50	7.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
7.00	7.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
7.50	8.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
8.00	8.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
8.50	9.00	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
9.00	9.50	0.50	0.50	100%	Reddish	Ferruginous Bauxite/Laterite	
9.50	9.70	0.20	0.25	125%	Cherry Red	Aluminous Laterite/Laterite	
9.70	10.00	0.30	0.32	107%	Cherry Red	Aluminous Laterite/Laterite	
10.00	10.30	0.30	0.30	100%	Cherry Red	Aluminous Laterite/Laterite	
10.30	10.50	0.20	0.22	110%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
10.50	10.75	0.25	0.25	100%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
10.75	11.00	0.25	0.25	100%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
11.00	11.25	0.25	0.25	100%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
11.25	11.50	0.25	0.25	100%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
11.50	11.70	0.20	0.20	100%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
11.70	12.00	0.30	0.30	100%	Reddish Brown/Pinkish Brown	Aluminous Laterite/Laterite	
12.00	12.30	0.30	0.28	93%	Cherry Red	Aluminous Laterite/Laterite	
12.30	12.60	0.30	0.27	90%	Cherry Red	Aluminous Laterite/Laterite	
12.60	12.80	0.20	0.20	100%	Cherry Red	Aluminous Laterite/Laterite	
12.80	13.00	0.20	0.20	100%	Cherry Red	Aluminous Laterite/Laterite	

**DETAILED RUN-WISE LITHOLOGS OF BOREHOLES DRILLED BY MECL,DHRANG BLOCK, DISTRICT - KACHCHH, GUJARAT**

Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
13.00	13.25	0.25	0.24	96%	Reddish Brown	Aluminous Laterite/Laterite	
13.25	13.50	0.25	0.26	104%	Reddish Brown	Aluminous Laterite/Laterite	
13.50	13.75	0.25	0.23	92%	Reddish Brown	Aluminous Laterite/Laterite	
13.75	14.00	0.25	0.24	96%	Reddish Brown	Aluminous Laterite/Laterite	
14.00	14.25	0.25	0.24	96%	Reddish Brown	Lateritic Clay	
14.25	14.50	0.25	0.24	96%	Reddish Brown	Lateritic Clay	
14.50	15.00	0.50	0.44	88%	Reddish Brown	Lateritic Clay	
15.00	15.20	0.20	0.20	100%	Varigated	Varigated Clay	
15.20	15.50	0.30	0.28	93%	Varigated	Varigated Clay	
15.50	15.80	0.30	0.28	93%	Varigated	Varigated Clay	
15.80	16.10	0.30	0.30	100%	Varigated	Varigated Clay	
16.10	16.60	0.50	0.48	96%	Varigated	Varigated Clay	
16.60	17.00	0.40	0.40	100%	Varigated	Varigated Clay	
17.00	17.50	0.50	0.48	96%	Varigated	Varigated Clay	
17.50	18.00	0.50	0.47	94%	Varigated	Varigated Clay	
18.00	18.50	0.50	0.46	92%	Varigated	Varigated Clay	
18.50	19.00	0.50	0.49	98%	Varigated	Varigated Clay	
19.00	19.50	0.50	0.45	90%	Varigated	Varigated Clay	
19.50	20.00	0.50	0.50	100%	Varigated	Varigated Clay	
20.00	20.30	0.30	0.29	97%	Varigated	Varigated Clay	
20.30	20.60	0.30	0.31	103%	Varigated	Varigated Clay	
20.60	21.10	0.50	0.48	96%	Varigated	Varigated Clay	
21.10	21.50	0.40	0.40	100%	Varigated	Varigated Clay	
21.50	22.00	0.50	0.50	100%	Varigated	Varigated Clay	
22.00	22.50	0.50	0.48	96%	Varigated	Varigated Clay	
22.50	23.00	0.50	0.44	88%	Varigated/Purple	Saprolite	
23.00	23.40	0.40	0.38	95%	Varigated/Purple	Saprolite	
23.40	24.00	0.60	0.59	98%	Black	Basalt	

**DETAILED RUN-WISE LITHOLOGS OF BOREHOLES DRILLED BY MECL,DHRANG BLOCK, DISTRICT - KACHCHH, GUJARAT**

**Bore hole No. MBD-02**

**Date of Commencement: 25.10.2025**

**Date of Closure: 27.10.2025**

**Total Depth (m) :14.00**

**Northing- 2602694.366**  
**Easting- 490044.776**  
**R.L.(m): 1105.13**

Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
0.00	0.50	0.50	0.49	98%	Reddish	Laterite	Streak is yellow. Contain some black portion may be Goethite/Hematite. Some part is weathered.
0.50	1.00	0.50	0.47	94%	Reddish	Aluminous Laterite	Streak is brownish Yellow. Hard, dust is 80%
1.00	1.50	0.50	0.48	96%	Reddish	Aluminous Laterite	Dust is 90%
1.50	2.00	0.50	0.49	98%	Reddish	Laterite	Yellow brown streak with black portion. Silica with white patches.
2.00	2.50	0.50	0.49	98%	Reddish	Laterite	
2.50	3.00	0.50	0.46	92%	Reddish	Laterite	
3.00	3.50	0.50	0.50	100%	Reddish	Laterite	Limonite patch with yellow brown streak.
3.50	4.00	0.50	0.44	88%	Reddish	Laterite	Dust is 90%
4.00	4.50	0.50	0.42	84%	Reddish	Laterite	Streak of Reddish Brown and Yellow colour
4.50	5.00	0.50	0.55	110%	Reddish	Laterite	
5.00	5.50	0.50	0.42	84%	Reddish	Laterite	
5.50	5.70	0.20	0.20	100%	Brownish Red	Aluminous Laterite	
5.70	6.00	0.30	0.34	113%	Reddish Brown	Aluminous Laterite	
6.00	6.20	0.20	0.20	100%	Brownish Pink	Aluminous Laterite/Laterite	
6.20	6.50	0.30	0.33	110%	Brown	Laterite	
6.50	7.00	0.50	0.39	78%	Brownish Pink	Laterite	
7.00	7.50	0.50	0.46	92%	Brownish	Laterite	
7.50	8.00	0.50	0.50	100%	Varigated	Limonitic Clay	
8.00	8.50	0.50	0.40	80%	Yellow	Limonitic Clay	
8.50	9.00	0.50	0.55	110%	Varigated	Varigated Clay	
9.00	9.50	0.50	0.51	102%	Varigated	Varigated Clay	
9.50	10.00	0.50	0.53	106%	Varigated	Varigated Clay	
10.00	10.50	0.50	0.45	90%	Varigated	Varigated Clay	
10.50	11.00	0.50	0.48	96%	Varigated	Varigated Clay	
11.00	11.50	0.50	0.35	70%	Light Yellow to Purple Stain	Varigated Clay	
11.50	12.00	0.50	0.4	80%	Varigated	Varigated Clay	
12.00	12.50	0.50	0.46	92%	Varigated	Varigated Clay	
12.50	13.00	0.50	0.46	92%	Varigated	Varigated Clay	
13.00	13.50	0.50	0.45	90%	Varigated	Varigated Clay	
13.50	14.00	0.50	0.47	94%	Black	Basalt	

**DETAILED RUN-WISE LITHOLOGS OF BOREHOLES DRILLED BY MECL,DHRANG BLOCK, DISTRICT - KACHCHH, GUJARAT**

**Bore hole No. MBD-03**

**Date of Commencement: 22.10.2025**

**Date of Closure: 24.10.2025**

**Total Depth (m) :11.00**

**Northing-2602306.105**

**Easting- 490212.852**

**R.L.(m)- 1195.118**

Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
0.00	0.50	0.50	0.42	84%	Buff/Greyish Brown	Clayey Bauxite	Pinkish Colour and Silica . Dark mineral Grain. Dust 90%
0.50	1.00	0.50	0.52	104%	Buff/Greyish Brown	Clayey Bauxite	Pinkish Colour and Silica . Dark mineral Grain. Dust 90%
1.00	1.50	0.50	0.50	100%	Buff/Greyish Brown	Clayey Bauxite	Pinkish Colour and Silica . Dark mineral Grain. Dust 90%
1.50	2.00	0.50	0.48	96%	Pinkish Brown	Clayey Bauxite	Pebbles with green colour and silica matrix
2.00	2.50	0.50	0.41	82%	Pinkish Brown	Clayey Bauxite	white patches of silica
2.50	3.00	0.50	0.48	96%	Reddish Pink	Clayey Bauxite	Silica with Limonite and white patches. 80% dust
3.00	3.50	0.50	0.37	74%	Reddish Pink	Clayey Bauxite	Silica with Limonite and white patches. 98% dust
3.50	4.00	0.50	0.33	66%	Reddish Pink	Clayey Bauxite	Silica with Limonite and white patches. 98% dust
4.00	4.50	0.50	0.35	70%	Reddish	Laterite	Grey colour patches with some residual of basalt? Yellow colour limonite. To Check Bauxite Value?
4.50	5.00	0.50	0.45	90%	Reddish	Laterite	
5.00	5.50	0.50	0.47	94%	Reddish	Laterite	
5.50	6.00	0.50	0.47	94%	Reddish	Laterite	
6.00	6.50	0.50	0.45	90%	Reddish	Laterite	
6.50	7.00	0.50	0.48	96%	Reddish	Laterite	
7.00	7.50	0.50	0.40	80%	Reddish	Lateritic Clay/Aluminous Clay	Limonite and Patches of Silica as infilling
7.50	8.00	0.50	0.45	90%	Yellow	Lateritic Clay/Aluminous Clay	Residue of laterite in patches
8.00	8.50	0.50	0.46	92%	Yellow Grey	Lateritic Clay/Aluminous Clay	Silica rich with Limonite Patches
8.50	9.00	0.50	0.51	102%	Greenish	Lateritic Clay/Aluminous Clay	Silica rich with Limonite Patches
9.00	9.50	0.50	0.43	86%	Black	Lithomerge	Silica rich with Limonite Patches
9.50	9.80	0.30	0.30	100%	Black	Lithomerge	Basalt with Limonite Patch
9.80	10.00	0.20	0.28	140%	Black	Lithomerge	
10.00	10.50	0.50	0.38	76%	Black	Basalt	
10.50	11.00	0.50	0.50	100%	Black	Basalt	

# DETAILED RUN-WISE LITHOLOGS OF BOREHOLES DRILLED BY MECL,DHRANG BLOCK, DISTRICT - KACHCHH, GUJARAT

**Borehole No. MBD-04**

**Date of Commencement: 14.10.2025**

**Date of Closure: 20.10.2025**

**Total Depth (m) :22.00**

**Northing- 2602502.510**  
**Easting- 491285.401**  
**R.L.(m)- 1188.391**

Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
0.00	0.40	0.40	0.36	90%	Grey	Clayey bauxite	Grey Colour Dust. Altered basalt. 96% dust Mata na Madh Formation
0.40	1.00	0.60	0.53	88%	Grey	Clayey bauxite	Grey Colour Dust. Altered basalt. Mata na Madh Formation
1.00	1.50	0.50	0.48	96%	Grey to Reddish Brown	Clayey bauxite	patches of clay and Laterite. Limonite partial infilling intermixed with laterite and basalt.
1.50	2.00	0.50	0.47	94%	Grey to Reddish Brown	Clayey bauxite	patches of clay and Laterite. Limonite partial infilling intermixed with laterite and basalt.
2.00	2.50	0.50	0.65	130%	Dark Grey	Clayey bauxite	Pebbles are friable like clay
2.50	2.60	0.10	0.32	320%	Dark Grey	Clayey bauxite	Pebbles are friable like clay
2.60	2.80	0.20	0.40	200%	Reddish Brown	Clayey bauxite	Clay (off White) intermixed with laterite
2.80	3.20	0.40	0.40	100%	Grey	Clayey bauxite	Yellow White. Pinkish colour small pebbles
3.20	3.50	0.30	0.34	113%	Reddish Brown to Grey	Aluminous Laterite	Alternating bands of laterite and clay
3.50	4.00	0.50	0.48	96%	Reddish Brown to Grey	Aluminous Laterite	Alternating bands of laterite and clay
4.00	4.30	0.30	0.28	93%	Reddish Brown to Grey	Aluminous Laterite	Alternating bands of laterite and clay
4.30	4.70	0.40	0.40	100%	Reddish Brown to Grey	Aluminous Laterite	Alternating bands of laterite and clay
4.70	5.00	0.30	0.30	100%	Reddish Brown to Grey	Aluminous Laterite	Alternating bands of laterite and clay
5.00	5.50	0.50	0.50	100%	Reddish Brown	Aluminous Laterite	Intercalated layer of laterite and Clay
5.50	6.00	0.50	0.46	92%	Reddish Brown to off white	Aluminous Laterite	Intercalated layer of laterite and Clay
6.00	6.50	0.50	0.42	84%	Reddish Brown to off white	Aluminous Laterite	Intercalated layer of laterite and Clay
6.50	7.00	0.50	0.50	100%	Yellow	Ferruginous Clay	
7.00	7.50	0.50	0.63	126%	Cherry Red	Ferruginous Clay	Clay intermixed with Laterite and patchy Limonite
7.50	8.00	0.50	0.55	110%	Light Purple/Varigated	Varigated Clay	Core is Purple with White and Yellow Patches.
8.00	8.50	0.50	0.46	92%	Purple Grey/Varigated	Varigated Clay	
8.50	9.00	0.50	0.47	94%	Purple Grey/Varigated	Varigated Clay	White and Grey colour infilling. Light in weight and compact
9.00	9.50	0.50	0.49	98%	Varigated	Varigated Clay	Alternate Bands of Pink and Yellow
9.50	10.00	0.50	0.44	88%	Varigated	Varigated Clay	Bands of White and Yellow
10.00	10.50	0.50	0.49	98%	Varigated	Varigated Clay	Limonitic Patches with silica enrichment
10.50	11.00	0.50	0.49	98%	Varigated	Varigated Clay	Yellow Colour Patches and Infilling of Silica and Pebbles or Stain of Altered Basalt.
11.00	11.50	0.50	0.47	94%	Varigated	Varigated Clay	Clay intermixed with lateriteand partial infilling
11.50	12.00	0.50	0.48	96%	Varigated	Varigated Clay	Intermixed with band of Limonite and Laterite.
12.00	12.50	0.50	0.53	106%	Varigated	Varigated Clay	Violet to Reddish Dark
12.50	12.90	0.40	0.32	80%	Varigated	Varigated Clay	Hard, not scratched by nail. Silica rich
12.90	13.00	0.10	0.80	800%	Reddish Brown	Varigated Clay	Hard, not scratched by nail. Silica rich and Iron Rich

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Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
13.00	13.50	0.50	0.55	110%	Reddish Brown	Varigated Clay	Reddish colour
13.50	13.67	0.17	0.17	100%	Pinkish	Varigated Clay	Iron Rich
13.67	14.00	0.33	0.33	100%	Pinkish	Varigated Clay	Clay with Laterite Pebbles
14.00	14.50	0.50	0.49	98%	Reddish Green	Bentonitic Clay?	Bentinitic Clay? with Laterite Layer
14.50	15.00	0.50	0.41	82%	Earthy	Bentonitic Clay?	Grey colour with Green mineral. Basaltic Origin
15.00	15.40	0.40	0.35	87%	Reddish Grey to Dark Grey	Clay	Inner part Greenish Grey with outer coating reddish
15.40	15.50	0.10	0.80	800%	Dark Grey	Clay	
15.50	15.75	0.25	0.25	100%	Greenish	Clay	
15.75	16.00	0.25	0.25	100%	Greenish	Clay	
16.00	16.50	0.50	0.45	90%	Greenish	Clay	
16.50	17.00	0.50	0.47	94%	Greenish	Clay	Dark Green Colour Grain
17.00	17.50	0.50	0.40	80%	Greenish	Clay	Dark Green Colour Grain
17.50	17.78	0.28	0.28	100%	Greenish	Clay	Altered Green Mineral grain
17.78	18.00	0.22	0.35	159%	Dark Green	Clay	Green Colour Mineral. Soft touch like clay
18.00	18.50	0.50	0.51	102%	Black	Saprolite	Carbon Contain with green colour.
18.50	19.00	0.50	0.45	90%	Greenish	Saprolite	Carbon Contain with green colour.
19.00	19.50	0.50	0.40	80%	Greenish	Saprolite	Fragmented, Friable
19.50	20.00	0.50	0.42	84%	Blakish Green	Saprolite	Fragmented, Friable
20.00	20.50	0.50	0.39	78%	Black	Saprolite	Carbon Contain with Alteration and green colour.
20.50	21.00	0.50	0.45	90%	Greenish	Saprolite	Greenish black grain and some altered grain silica rich, hard, not scratched
21.00	21.50	0.50	0.40	80%	Greenish	Basalt	Green mineral Grains and shiny mineral grain
21.50	22.00	0.50	0.50	100%	Light Green	Basalt	

**DETAILED RUN-WISE LITHOLOGS OF BOREHOLES DRILLED BY MECL,DHRANG BLOCK, DISTRICT - KACHCHH, GUJARAT**

**Borehole No. MBD-05**

**Date of Commencement: 29.10.2025**

**Date of Closure: 30.10.2025**

**Total Depth (m) :06.00**

**Northing- 2601658.022**  
**Easting- 490497.140**  
**R.L.(m)- 1184.305**

Depth (m)		Run (m)	Recovery (m)	Recovery %	Colour	Lithology	Remarks
From	To						
0.00	0.50	0.50	0.50	100%	Buff/ Greyish Brown	Bauxite	Dust is 100 %
0.50	1.00	0.50	0.46	92%	Buff/ Greyish Brown	Bauxite	Pebbles of Blackish Colour
1.00	1.50	0.50	0.47	94%	Greyish Brown	Bauxite	Matrix of Grey Colour with Laterite Pebbles. Hard, not scratched by nail.
1.50	2.00	0.50	0.43	86%	Greyish Brown	Bauxite	Compact Hard with Silica rich matrix aand some infilling
2.00	2.50	0.50	0.48	96%	Greyish Brown	Bauxite	
2.50	2.55	0.05	0.05	100%	Greyish Brown	Bauxite	
2.55	3.00	0.45	0.40	89%	Pinkish	Aluminous Clay	Infilling of silica. Hard and Compact.
3.00	3.15	0.15	0.15	100%	Pinkish	Aluminous Clay	Infilling of silica. Hard and Compact.
3.15	3.50	0.35	0.35	100%	Yellow	Limonite	
3.50	3.78	0.28	0.28	100%	Yellow	Ferruginous Clay	Limonite and Silica infilling
3.78	4.00	0.22	0.22	100%	Reddish	Ferruginous Clay	Limonite and Silica infilling
4.00	4.50	0.50	0.42	84%	Reddish	Ferruginous Clay	
4.50	4.71	0.21	0.21	100%	Yellow	Limonitic Clay	Off White colour silica Patches
4.71	5.00	0.29	0.29	100%	Light Grey	Lithomerge	
5.00	5.50	0.50	0.47	94%	Black	Lithomerge	Friable, weathered
5.50	5.80	0.30	0.20	67%	Black	Basalt	
5.80	6.00	0.20	0.20	100%	Black	Basalt	