

ANNEXURE-I: SUMMARIZED LITHOLOGS OF BOREHOLES DRILLED IN NORTHWEST OF BORO LAKHINDONG							
Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
1	83C11	PBH-01	0	4	4	27	Silty clay residual soil, brownish grey in colour, present as sludge
2	83C11	PBH-01	4	12	8	99	Grey to dark grey, fine to medium grained hard fossiliferous limestone with abundance of Nummulite sp., Discocyclina sp., Assilina sp. Stylolites are prominent. Vertical fractures and mud partings are present.
3	83C11	PBH-01	12	33	21	98.29	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of fossils Assilina sp., Alveolina sp., and Discocyclina sp., Asterocyclina sp.
4	83C11	PBH-01	33	66	33	99	Grey, fine to medium grained hard fossiliferous limestone with fossils of mainly Nummulite sp., Assilina sp., Discocyclina sp. Vertical fractures present at several depths.

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
5	83C11	PBH-01	66	82.7 6	16.76	99.33	Grey to dark grey, fine to medium grained hard & compact fossiliferous limestone with presence of Discocyclus sp., Nummulite sp., and Assilina sp., mixed up with unfossiliferous and calcareous shale. Secondary infilling of calcite is observed.
6	83C11	PBH-01	82.76	84	1.24	93.33	Medium to coarse grained sandstone, greyish in colour, Carb. Streak present.
7	83C11	PBH-01	84	85.2 5	1.25	97.67	Fine grained sandstone mixed up with grey unfossiliferous shale.
8	83C11	PBH-01	85.25	85.7 8	0.53	100	Grey fossiliferous limestone containing fossil of Nummulite sp. In minor quantity.
9	83C11	PBH-01	85.78	89.7 5	3.97	97.5	Grey to dark grey shale, mixed with SSFG at middle
10	83C11	PBH-01	89.75	90.5 3	0.78	98.71	Medium grained sandstone, reddish grey-grey

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			From	To			
							in colour, slightly ferruginous
11	83C11	PBH-01	90.53	92.86	2.33	98.71	Grey shale mixed up with fine to medium grained, greyish sandstone.
12	83C11	PBH-01	92.86	95.16	2.3	97.39	Fine to medium grained sandstone, reddish grey in colour
13	83C11	PBH-01	95.16	97.5	2.34	95.72	Greyish shale mixed with fine grained sandstone.
14	83C11	PBH-01	97.5	100	2.5	99.2	Medium to coarse grained sandstone, greyish in colour, shale and coal patches are observed.
15	83C11	PBH-02	0	2	2	40	Silty clay residual soil, brownish in colour, loose and broken
16	83C11	PBH-02	2	4.4	2.4	65	Grey calcareous shale mixed up with fossiliferous limestone
17	83C11	PBH-02	4.4	18	13.6	88.2	Grey to dark grey, medium grained, hard & compact limestone with dominant fossils of Nummulite sp., Discocyclina sp., along with minor abundance

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
							of Alveolina sp. fossils. Mud parting present at places.
18	83C11	PBH-02	18	31.6 2	13.62	96.73	Grey to dark grey, fine to mediumgrained, hard & compact, fossiliferous limestone with abundance of Nummulite sp., Discocyclina sp. Stylolites are observed at places.
19	83C11	PBH-02	31.62	34.7	3.08	90.58	Dark grey, unfossiliferous, calcareous shale. Loose at bottom parts.
20	83C11	PBH-02	34.7	54	19.3	96.48	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone with high abundance of Nummulite sp., Discocyclina sp., Asterocyclina sp. fossils.
21	83C11	PBH-02	54	96	42	98.74	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulites sp., Assilina sp., Asterocyclina sp.

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
							and Discocyclina sp. fossils. Stylolites & fractures are prominent.
22	83C11	PBH-02	96	100	4	97.17	Grey-dark grey, fine-medium grained, hard & compact fossiliferous limestone mixed with unfossiliferous greyish shale at top. Fossils present in fossiliferous limestone are Alveolina sp. and Discocyclina sp.
23	83C11	PBH-03	0	5.5	5.5	45.56	Silty clay residual soil, brownish-greyish in colour
24	83C11	PBH-03	5.5	15.7 8	10.28	90.33	Unfossiliferous shale, grey-dark grey in colour, calcareous
25	83C11	PBH-03	15.78	42.2 6	26.48	95.93	Grey, medium grained, compact fossiliferous limestone with abundance of Nummulite sp., along with minor Assilina sp. And Alveolina sp., fractures present. Cavityfilling of calcite is observed.

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
26	83C11	PBH-03	42.26	45.5	3.24	95.37	Dark grey, unfossiliferous, calcareous shale
27	83C11	PBH-03	45.5	100	54.5	97.44	Grey, fine-medium grained, hard & compact, fossiliferous limestone with abundance of Nummulite sp., Discocyclina sp., Asterocyclina sp., and less abundance of Assilina sp. Stylolites & fractures are prominent at parts.
28	83C11	PBH-04	0	3	3	30	Silty clay residual soil, brownishyellow-greyish in colour
29	83C11	PBH-04	3	15.8	12.8	93.67	Calcareousshale, unfossiliferous mixed up with fossiliferous limestone. Greyish to brownish in colour. Fractures present.
30	83C11	PBH-04	15.8	24	8.2	96.11	Greyish-Reddish white, fine to medium grained, hard & compact fossiliferous limestone along with major fossils Nummulite sp., Assilina sp.

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
							Slightly ferruginous.
31	83C11	PBH-04	24	42	18	97.22	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Asterocyclina sp., Discocyclina sp., Nummulite sp., Assilina sp. Mixed up with shale. Stylolites & fractures are present.
32	83C11	PBH-04	42	45	3	94	Grey to dark grey, calcareous shale, unfossiliferous
33	83C11	PBH-04	45	100	55	98.25	Grey, fine to medium grained, hard & compact fossiliferous limestone with major fossils of Nummulite sp., Asterocyclina sp., Discocyclina sp., Assilina sp. mainly. Shale partings & stylolites are present at places.
34	83C11	PBH-05	0	3	3	44	Silty clay residual soil, brownish-dark grey in colour

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
35	83C11	PBH-05	3	16.14	13.14	95.8	Grey fossiliferous limestone with abundance of Asterocyclina sp., Discocyclina sp. fossils mixed up with grey Calcareous shale. Fractured and broken.
36	83C11	PBH-05	16.14	42	25.86	99.29	Whitish Grey-Grey, fine to mediumgrained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Assilina sp. fossils. Vertical fractures are observed. Secondary growth of calcite is seen within fractures. Mud partings present.
37	83C11	PBH-05	42	45	3	98.33	Dark grey shale, unfossiliferous and calcareous
38	83C11	PBH-05	45	87	42	99.67	Whitish grey-grey, fine to mediumgrained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Assilina sp., Alveolina sp. Fractures and

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Sr No	Toposheet no	Borehole No	Depth (m)		Thickness (m)	Recovery (%)	Description of lithology
			From	To			
							stylolites are present.
39	83C11	PBH-05	87	100	13	99.4	Whitish grey- grey, fine to medium grained, hard & compact fossiliferous limestone with low abundance of fossil content.

ANNEXURE-I (B): Co-ordinate and RL of drilled boreholes in Northwest of Boro Lakhindong Block

Toposheet No	Borehole No	Latitude	D	M	S	Lat	Longitude	D1	M1	S1	Long	RL of the Collar
83C11	PBH-01	25°28'34.72"N	25	28	34.72	25.48	92°36'6.56"E	92	36	6.56	92.60	731.00m
83C11	PBH-02	25°28'33.56"N	25	28	33.56	25.48	92°36'35.44"E	92	36	35.44	92.61	736.00m
83C11	PBH-03	25°28'32.41"N	25	28	32.41	25.48	92°37'4.06"E	92	37	4.06	92.62	736.00m
83C11	PBH-04	25°28'7.79"N	25	28	7.79	25.47	92°36'19.95"E	92	36	19.95	92.6	741.00m
83C11	PBH-05	25°28'05.2"N	25	28	5.2	25.47	92°36'48.3"E	92	36	48.3	92.61	732.00m

ANNEXURE II									
LITHOLOGS OF BOREHOLES DRILLED IN NW OF BORO LAKHINDONG BLOCK, DIMA HASAO DISTRICT, ASSAM									
BH No.- PBH01							Date of Commencement: 09/12/2024		
Latitude - N 25°28'34.7"							Date of Closing: 11/12/2024		
Longitude - E 92°36'06.6"							Final Depth: 100m		
Azimuth- Vertical							R.L.: 731m		
Depth(m)		Run	DEPTH & THICKNESS AFTER ADJUSTMENT (m)		Recovery(m)	Recovery (%)	RQD%	Rock type	Description of Lithology
			From	Thickness					
From(m)	To(m)								
0.00	0.50	0.50	0.00	0.50	0.15	30.00		Regolith	Regolith, yellowish brown in colour
0.50	1.00	0.50	0.50	0.50	0.18	36.00		Regolith	Regolith, yellowish brown in colour
1.00	2.00	1.00	1.00	1.00	0.25	25.00		Regolith	Regolith, yellowish brown in colour
2.00	3.00	1.00	2.00	1.00	0.20	20.00		Regolith	Regolith, yellowish brown in colour
3.00	4.00	1.00	3.00	1.00	0.24	24.00		Residual soil	Silty clay residual soil, brownish grey in colour, present as sludge

4.00	6.00	2.00	4.00	2.00	1.96	98.00	87.50	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp., and minor abundance of Discocyclina sp. Clay is present at top.
6.00	9.00	3.00	6.00	3.00	2.99	99.67	88.00	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of fossils Nummulite sp., Assilina sp., and Alveolina sp. Stylolite is present at depth of 8.12m.
9.00	12.00	3.00	9.00	3.00	2.98	99.33	86.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard fossiliferous limestone with abundance of Nummulite sp., Discocyclina sp., Assilina sp. Stylolites are prominent. Vertical fractures and mud partings are present.

12.00	15.00	3.00	12.00	3.00	2.97	99.00	90.00	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of fossils Asterocyclina sp., Assilina sp., and Discocyclina sp.
15.00	18.00	3.00	15.00	3.00	2.92	97.33	88.66	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of fossils Asterocyclina sp., Assilina sp., and Discocyclina sp.
18.00	21.00	3.00	18.00	3.00	2.95	98.33	91.00	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of mainly Discocyclina sp., Asterocyclina sp., Assilina sp., along with minor amount of Nummulite sp. fossils.

21.00	24.00	3.00	21.00	3.00	2.95	98.33	86.66	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with major fossils of Discocyclina sp., Asterocyclina sp., Alveolina sp. Shale parting present at top and middle.
24.00	27.00	3.00	24.00	3.00	2.93	97.67	90.66	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of fossils Nummulite sp., Assilina sp., and Discocyclina sp.
27.00	30.00	3.00	27.00	3.00	2.95	98.33	93.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of fossils Nummulite sp., Alveolina sp., and Discocyclina sp.

30.00	33.00	3.00	30.00	3.00	2.97	99.00	96.00	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of fossils Assilina sp., Alveolina sp., and Discocyclus sp.
33.00	36.00	3.00	33.00	3.00	2.93	97.67	79.00	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp. fossils. Fractures present at 34.05m depth.
36.00	39.00	3.00	36.00	3.00	2.95	98.33	86.33	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing less amount of fossils Nummulite sp., Alveolina sp. Vertical fractures present at top and middle.

39.00	42.00	3.00	39.00	3.00	2.96	98.67	90.66	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard fossiliferous limestone with abundance of mainly Nummulite sp., Discocyclina sp.
42.00	45.00	3.00	42.00	3.00	2.99	99.67	97.00	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of fossils Nummulite sp., Assilina sp., and Discocyclina sp.
45.00	48.00	3.00	45.00	3.00	2.95	98.33	97.00	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of fossils Nummulite sp., and Discocyclina sp. Stylolites are prominent at places.
48.00	51.00	3.00	48.00	3.00	2.97	99.00	96.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard fossiliferous limestone with abundance of mainly Nummulite sp.,

									Discocyclina sp., Alveolina sp.
51.00	54.00	3.00	51.00	3.00	2.98	99.33	90.66	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard fossiliferous limestone with high abundance of mainly Nummulite sp., Assilina sp., Discocyclina sp.
54.00	57.00	3.00	54.00	3.00	2.97	99.00	93.67	Fossiliferous Limestone	Grey, fine to medium grained hard fossiliferous limestone with fossils of mainly Nummulite sp., Assilina sp., Discocyclina sp. Vertical fractures present.
57.00	60.00	3.00	57.00	3.00	2.98	99.33	95.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained compact fossiliferous limestone with fossil abundance of Nummulite sp., Assilina sp., Discocyclina sp.

60.00	63.00	3.00	60.00	3.00	3.00	100.00	88.00	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard fossiliferous limestone with presence of Nummulite sp. Stylolites are prominent at some places. Secondary infilling of calcite is present.
63.00	66.00	3.00	63.00	3.00	2.99	99.67	68.00	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard & compact fossiliferous limestone with presence of Discocyclus sp., and Assilina sp. Shale parting present at middle.
66.00	69.00	3.00	66.00	3.00	2.96	98.67	75.67	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard & compact fossiliferous limestone with presence of Discocyclus sp., and Assilina sp., mixed up with unfossiliferous and

									calcareous shale. Secondary infilling of calcite is observed.
69.00	72.00	3.00	69.00	3.00	2.97	99.00	92.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard & compact fossiliferous limestone containing fossils of Discocyclina sp., and Alveolina sp., and mixed up with unfossiliferous and calcareous shale.
72.00	75.00	3.00	72.00	3.00	2.98	99.33	94.67	Fossiliferous Limestone	Dark grey fossiliferous limestone mixed up with dark grey calcareous, unfossiliferous shale, streaks of coal are observed.
75.00	78.00	3.00	75.00	3.00	3.00	100.00	97.13	Fossiliferous Limestone	Grey to dark grey, fine to medium grained hard & compact fossiliferous limestone containing fossils of Discocyclina sp., and Assilina sp., and mixed up with

									unfossiliferous and calcareous shale.
78.00	81.00	3.00	78.00	3.00	2.99	99.67	93.33	Fossiliferous Limestone	Grey, fine to medium grained hard fossiliferous limestone with fossils of mainly Nummulite sp., Assilina sp., Discocyclina sp. Shale parting is present at some part.
81.00	84.00	3.00	81.00	1.76	1.72	93.33	85.22	Fossiliferous Limestone	Grey, fine to medium grained hard and compact fossiliferous limestone with fossils of mainly Assilina sp., Discocyclina sp. Shale parting present at 81.30m depth.
			82.76	1.24	1.08		43.54	SSMGTCG	Medium to coarse grained sandstone, greyish in colour, Carb. Streak present.
84.00	87.00	3.00	84.00	1.25	1.20	97.67	39.20	SSFG	Fine grained sandstone mixed up with grey unfossiliferous shale

			85.25	0.53	0.53		100.00	Fossiliferous Limestone	Grey fossiliferous limestone containing fossil of Nummulite sp. In minor quantity.
			85.78	1.22	1.20		56.67	Shale	Dark grey calcareous shale
87.00	90.00	3.00	87.00	2.75	2.68	97.33	48.56	Shale	Grey to dark grey shale, mixed with SSFG at middle
			89.75	0.25	0.24		76.00	SSMG	Medium grained sandstone, reddish grey in colour
90.00	93.00	3.00	90.00	0.53	0.53	99.00	64.15	SSMG	Medium grained sandstone, reddish grey-grey in colour, slightly ferruginous
			90.53	2.33	2.30		48.56	Shale	Grey shale mixed up with fine to medium grained, greyish sandstone
			92.86	0.14	0.14			SSFGTMG	Fine to medium grained sandstone, reddish grey in colour
93.00	96.00	3.00	93.00	2.16	2.10	96.67	53.70	SSMG	Medium grained sandstone, Greyish white in colour

			95.16	0.84	0.80		86.25	Shale	Greyish shale mixed with fine grained sandstone. Some plants fossils are present.
96.00	99.00	3.00	96.00	1.50	1.44	98.00	52.00	Shale	Grey to dark grey shale, Plant fossil present
			97.50	1.50	1.50		98.67	SSMG	Medium grained sandstone, greyish in colour, shale patch and coal streak present.
99.00	100.00	1.00	99.00	1.00	0.98	98.00	96.63	SSMGTCG	Medium to coarse grained sandstone, greyish in colour, shale and coal patches are observed.
			100.00						
Borehole closed at the depth of 100.00 meters									

ANNEXURE II									
LITHOLOGS OF BOREHOLES DRILLED IN NW OF BORO LAKHINDONG BLOCK, DIMA HASAO DISTRICT, ASSAM									
BH No.- PBH02						Date of Commencement: 04/12/2024			
Latitude - N 25°28'33.6"						Date of Closing: 07/12/2024			
Longitude - E 92°36'35.4"						Final Depth: 100m			
Azimuth- Vertical						R.L.: 736m			
Depth(m)		Run	DEPTH & THICKNESS AFTER ADJUSTMENT (m)		Recovery (m)	Recovery (%)	RQD%	Rock type	Description of Lithology
			From	Thickness					
From (m)	To (m)								
0.00	0.50	0.50	0.00	0.50	0.20	40.00		Regolith	Regolith, Brownish in colour
0.50	2.00	1.50	0.50	1.50	0.60	40.00		Soil	Silty clay residual soil, brownish in colour, loose and broken
2.00	3.00	1.00	2.00	1.00	0.40	40.00		Shale	Grey calcareous shale, unfossiliferous, broken at bootom

3.00	6.00	3.00	3.00	1.40	0.90	70.00		Shale	Grey calcareous shale mixed up with fossiliferous limestone
			4.40	1.60	1.20			Fossiliferous Limestone	Grey, fine to medium grained fossiliferous limestone, broken
6.00	9.00	3.00	6.00	3.00	2.60	86.67	59.33	Fossiliferous Limestone	Grey, fine to medium grained, compact fossiliferous limestone with abundance of Nummulite sp., and Discocyclina sp.
9.00	12.0 0	3.00	9.00	3.00	2.87	95.67	88.34	Fossiliferous Limestone	Grey to dark grey, medium grained, hard & compact limestone with dominant fossils of Nummulite sp., Discocyclina sp., along with minor abundance of Alveolina sp. fossils. Mud parting present at middle.
12.00	15.0 0	3.00	12.00	3.00	2.84	94.67	79.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact limestone with mostly fossils of Nummulite sp., and Discocyclina sp. Stylolites are prominent at places. Fractures and mud partings are observed.
15.00	18.0 0	3.00	15.00	3.00	2.82	94.00	77.32	Fossiliferous Limestone	Grey, medium grained, hard & compact, fossiliferous limestone along with presence of Nummulite sp., Discocyclina sp. fossils. Mud partings present and broken at places.
18.00	21.0 0	3.00	18.00	3.00	2.95	98.33	90.67	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact limestone with mostly fossils of Nummulite sp., Discocyclina sp., and Assilina sp. . Stylolites are prominent at places.
21.00	24.0 0	3.00	21.00	3.00	2.90	96.67	87.34	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact, fossiliferous limestone with abundance of Nummulite sp., Discocyclina sp. Stylolites are observed at places.

24.00	27.0 0	3.00	24.00	3.00	2.91	97.00	92.35	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, fossiliferous limestone with abundance of Nummulite sp. Fossils. Stylolites are present.
27.00	30.0 0	3.00	27.00	3.00	2.96	98.67	90.00	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp. fossils mostly.
30.00	33.0 0	3.00	30.00	1.62	1.54	93.00	87.04	Fossiliferous Limestone	Grey-dark grey, medium grained, hard & compact, fossiliferous limestone containing high fossil abundance of Nummulite sp., Assilina sp., along with minor amount of Asterocyclina sp.
			31.62	1.38	1.25		18.32	shale	Dark grey, unfossiliferous, calcareous shale
33.00	36.0 0	3.00	33.00	1.70	1.54	88.67	16.30	shale	Dark grey, unfossiliferous, calcareous shale. Loose at bottom parts.
			34.70	1.30	1.12		72.30	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard fossiliferous limestone containing fossils of Nummulite sp., Assilina sp. Mixed with shale at middle. Broken at bottom part.
36.00	39.0 0	3.00	36.00	3.00	2.89	96.33	77.67	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone with dominant fossils of Nummulite sp., assilina sp., Discocyclina sp., mixed up with dark grey shale at top.

39.00	42.0 0	3.00	39.00	3.00	2.91	97.00	91.67	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with presence of Nummulite sp., Alveolina sp., Assilina sp. fossils.
42.00	45.0 0	3.00	42.00	3.00	2.89	96.33	87.67	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Discocyclina sp., Alveolina sp. Stylolites are observed at some parts.
45.00	48.0 0	3.00	45.00	3.00	2.97	99.00	96.34	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone with high abundance of Nummulite sp., Discocyclina sp., Asterocyclina sp. fossils.
48.00	51.0 0	3.00	48.00	3.00	2.95	98.33	91.67	Fossiliferous Limestone	Dark Grey, fine to medium grained, hard & compact fossiliferous limestone containing high abundance of Discocyclina sp., Assilina sp., Asterocyclina sp. fossils.
51.00	54.0 0	3.00	51.00	3.00	2.99	99.67	97.67	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone containing high abundance of Asterocyclina sp., Assilina sp., Discocyclina sp.
54.00	57.0 0	3.00	54.00	3.00	2.99	99.67	92.67	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact limestone with fossils of Nummulite sp., Assilina sp.
57.00	60.0 0	3.00	57.00	3.00	2.97	99.00	96.67	Fossiliferous Limestone	Grey, medium grained, hard & compact limestone with dominant fossils of Nummulite sp., Assilina sp., Discocyclina sp. Fractures present.
60.00	63.0 0	3.00	60.00	3.00	2.96	98.67	94.67	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone

									containing fossil abundance of Nummulite sp., Discocyclina sp., Alveolina sp.
63.00	66.0 0	3.00	63.00	3.00	2.94	98.00	90.34	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulites sp., Assilina sp., and Discocyclina sp. fossils. Stylolites are prominent.
66.00	69.0 0	3.00	66.00	3.00	2.93	97.67	86.67	Fossiliferous Limestone	Grey, fine-medium grained, hard & compact fossiliferous limestone with less abundance of Nummulite sp., Assilina sp., fossils. Fractures present.
69.00	72.0 0	3.00	69.00	3.00	2.97	99.00	99.67	Fossiliferous Limestone	Grey-dark grey, fine-medium grained, hard & compact, fossiliferous limestone with abundance of Alveolina sp., Assilina sp. fossils.
72.00	75.0 0	3.00	72.00	3.00	2.91	97.00	95.67	Fossiliferous Limestone	Grey-dark grey, medium grained, hard & compact fossiliferous limestone with less abundant fossils of Nummulite sp., Alveolina sp.
75.00	78.0 0	3.00	75.00	3.00	2.95	98.33	98.00	Fossiliferous Limestone	Grey-dark grey, fine-medium grained, hard & compact fossiliferous limestone containing fossils of mainly Nummulite sp., Assilina sp.
78.00	81.0 0	3.00	78.00	3.00	2.96	98.67	92.00	Fossiliferous Limestone	Dark grey, fine to medium grained, fossiliferous limestone with less amount of fossil content as such Nummulite sp., Assilina sp. mainly.

81.00	84.0 0	3.00	81.00	3.00	2.97	99.00	97.00	Fossiliferous Limestone	Dark Grey, medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Assilina sp. fossils.
84.00	87.0 0	3.00	84.00	3.00	2.99	99.67	94.00	Fossiliferous Limestone	Dark grey, fine to medium grained, hard and compact fossiliferous limestone with fossil content of Discocyclina sp., Alveolina sp.
87.00	90.0 0	3.00	87.00	3.00	2.98	99.33	96.67	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with fossils of Nummulite sp., Discocyclina sp., Asterocyclina sp., Assilina sp.
90.00	93.0 0	3.00	90.00	3.00	2.99	99.67	95.33	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Asterocyclina sp., Nummulite sp., Assilina sp., Discocyclina sp.
93.00	96.0 0	3.00	93.00	3.00	2.96	98.67	94.33	Fossiliferous Limestone	Grey-dark grey, fine to medium grained, hard fossiliferous limestone with abundance of Nummulite sp., Asterocyclina sp., Discocyclina sp., fossils.
96.00	99.0 0	3.00	96.00	3.00	2.95	98.33	83.00	Fossiliferous Limestone	Dark grey, hard and compact, fine to medium grained fossiliferous limestone with presence of Alveolina sp., Discocyclina sp. fossils in less abundance. Mixed up with greyish shale at middle and bottom.
99.00	100. 00	1.00	99.00	1.00	0.96	96.00	76.00	Fossiliferous Limestone	Grey-dark grey, fine-medium grained, hard & compact fossiliferous limestone mixed with unfossiliferous greyish shale at top.

									Fossils present in fossiliferous limestone are Alveolina sp. and Discocyclina sp.
			100.0 0						
Borehole closed at the depth of 100.00 meters									

ANNEXURE II									
LITHOLOGS OF BOREHOLES DRILLED IN NW OF BORO LAKHINDONG BLOCK, DIMA HASAO DISTRICT, ASSAM									
BH No.- PBH03						Date of Commencement: 04/12/2024			
Latitude - N 25°28'32.4"						Date of Closing: 06/12/2024			
Longitude - E 92°37'04.1"						Final Depth: 100m			
Azimuth- Vertical						R.L.: 736m			
Depth(m)		Run	DEPTH & THICKNESS AFTER ADJUSTMENT (m)		Recovery (m)	Recovery (%)	RQD %	ROCK TYPE	Description of Lithology
			From	Thickness					
From (m)	To (m)								
0.00	0.50	0.50	0.00	0.50	0.20	40.00		Regolith	Regolith
0.50	2.50	2.00	0.50	2.00	0.60	30.00		Soil	Silty clay residual soil, brownish in colour
2.50	5.50	3.00	2.50	3.00	2.00	66.67		Soil	Silty clay residual soil, brownish-greyish in colour
5.50	8.50	3.00	5.50	3.00	2.76	92.00	16.62	Shale	Unfossiliferous shale, grey in colour, calcareous
8.50	11.50	3.00	8.50	3.00	2.72	90.67	24.26	Shale	Unfossiliferous shale, grey-dark grey in colour
11.50	14.50	3.00	11.50	3.00	2.65	88.33	30.00	Shale	Unfossiliferous shale, grey-dark grey in colour, calcareous
14.50	17.50	3.00	14.50	1.28	1.06	90.33	23.67	Shale	Unfossiliferous shale, grey-dark grey in colour
			15.78	1.20	1.16		89.16	Fossiliferous limestone	Grey, fine to medium grained, hard & compact, fossiliferous limestone containing fossil abundance of Nummulite sp.

			16.98	0.20	0.18			Shale	Calcareous shale, unfossiliferous, dark grey in colour
			17.18	0.32	0.31		93.75	Fossiliferous limestone	Grey, fine to medium grained, hard & compact, fossiliferous limestone containing fossil abundance of Nummulite sp.
17.50	20.50	3.00	17.50	3.00	2.87	95.67	84.33	Fossiliferous limestone	Grey-reddish, fine to medium grained, fossiliferous limestone with abundance of Nummulite sp., Alveolina sp. Fossils, broken at parts, slightly ferruginous
20.50	23.50	3.00	20.50	3.00	2.89	96.33	80.33	Fossiliferous limestone	Grey, medium grained, compact fossiliferous limestone with abundance of Nummulite sp. Fossils, fractures present. Cavity filling of calcite is observed.
23.50	26.50	3.00	23.50	3.00	2.86	95.33	90.00	Fossiliferous limestone	Grey, fine to medium grained, hard & compact, fossiliferous limestone containing fossil abundance of Nummulite sp. along with mud intercalation. Fractures present.
26.50	29.50	3.00	26.50	3.00	2.89	96.33	88.67	Fossiliferous limestone	Grey, medium grained, hard & compact fossiliferous limestone with fossil content of Nummulite sp., fractured at top
29.50	32.50	3.00	29.50	3.00	2.94	98.00	91.33	Fossiliferous limestone	Grey, medium grained, hard fossiliferous limestone with dominant fossils of Nummulites sp., assilina sp. along with minor Alveolina sp. Fossils.
32.50	35.50	3.00	32.50	3.00	2.91	97.00	82.67	Fossiliferous limestone	Grey-dark grey, medium grained, hard & compact fossiliferous limestone with dominance of Nummulites sp. along with minor Assilina sp. And Alveolina sp. fossils
35.50	38.50	3.00	35.50	3.00	2.93	97.67	88.67	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with high abundance of Nummulites sp.

38.50	41.50	3.00	38.50	3.00	2.90	96.67	92.33	Fossiliferous limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone with high abundance of Discocyclina sp., Assilina sp., and Alveolina sp. Fossils.
41.50	44.50	3.00	41.50	0.76	0.74	96.00	97.36	Fossiliferous limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of Discocyclina sp., Alveolina sp., Asterocyclina sp. Fossils
			42.26	2.24	2.14		21.60	Shale	Dark grey, unfossiliferous, calcareous shale
44.50	47.50	3.00	44.50	1.00	0.95	96.33	19.56	Shale	Dark grey, unfossiliferous, calcareous shale
			45.50	2.00	1.94		94.00	Fossiliferous limestone	Grey-dark grey, fine to medium grained, compact fossiliferous limestone is present with shale intercalation. Fossils of Alveolina sp. and Discocyclina sp. are present.
47.50	50.50	3.00	47.50	3.00	2.89	96.33	90.00	Fossiliferous limestone	Grey, fine to medium grained, hard & compact limestone with dominant fossils of Nummulite sp., Assilina sp., along with minor abundance of Alveolina sp.
50.50	53.50	3.00	50.50	3.00	2.93	97.67	91.67	Fossiliferous limestone	Grey, medium grained, hard & compact limestone with dominant fossils of Nummulite sp., Assilina sp., along with minor abundance of Alveolina sp. Fractures present. Prominent stylolites are observed.
53.50	56.50	3.00	53.50	3.00	2.86	95.33	86.67	Fossiliferous limestone	Grey, fine to medium grained, hard & compact limestone with more abundance of Nummulite sp. fossils.
56.50	59.50	3.00	56.50	3.00	2.90	96.67	89.00	Fossiliferous limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of Nummulites sp., Assilina sp., and Alveolina sp. fossils.

59.50	62.50	3.00	59.50	3.00	2.93	97.67	93.00	Fossiliferous limestone	Grey, medium grained, hard & compact fossiliferous limestone with abundance of Discocyclus sp., Alveolina sp., Asterocyclus sp. Fossils
62.50	65.50	3.00	62.50	3.00	2.92	97.33	87.67	Fossiliferous limestone	Grey, fine-medium grained, hard & compact, fossiliferous limestone with abundance of Nummulite sp., Discocyclus sp., Asterocyclus sp., and less abundance of Assilina sp.
65.50	68.50	3.00	65.50	3.00	2.96	98.67	97.00	Fossiliferous limestone	Grey-dark grey, fine-medium grained, hard & compact limestone with abundant fossils of Discocyclus sp., Asterocyclus sp.
68.50	71.50	3.00	68.50	3.00	2.95	98.33	95.67	Fossiliferous limestone	Grey-dark grey, fine-medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp., Alveolina sp.
71.50	74.50	3.00	71.50	3.00	2.93	97.67	94.00	Fossiliferous limestone	Grey-dark grey, fine to medium grained, hard fossiliferous limestone with abundance of Assilina sp., Discocyclus sp., Nummulite sp. fossils.
74.50	77.50	3.00	74.50	3.00	2.96	98.67	94.00	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing less amount of fossils- Discocyclus sp., Alveolina sp., Calcite cavity present.
77.50	80.50	3.00	77.50	3.00	2.96	98.67	89.67	Fossiliferous limestone	Grey, fine to medium grained, hard and compact fossiliferous limestone with fossil content of Discocyclus sp., Alveolina sp., fractures present.
80.50	83.50	3.00	80.50	3.00	2.94	98.00	88.00	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with less amount of Nummulite sp., Alveolina sp. Fossils. Stylolites are prominent at parts.

83.50	86.50	3.00	83.50	3.00	2.95	98.33	90.67	Fossiliferous limestone	Grey-dark grey, medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp., Discocyclina sp.
86.50	89.50	3.00	86.50	3.00	2.93	97.67	88.33	Fossiliferous limestone	Grey-dark grey, fine to medium grained, hard fossiliferous limestone with abundance of Nummulite sp., Alveolina sp., Discocyclina sp., fossils. Stylolites are present at places.
89.50	92.50	3.00	89.50	3.00	2.97	99.00	89.00	Fossiliferous limestone	Grey-dark grey, fine to medium grained, compact fossiliferous limestone with fossils of Nummulite sp., Assilina sp. and Discocyclina sp. are present.
92.50	95.50	3.00	92.50	3.00	2.90	96.67	79.67	Fossiliferous limestone	Grey-dark grey, medium grained, hard & compact fossiliferous limestone with fossils of Nummulite sp., Assilina sp. and Discocyclina sp.
95.50	98.50	3.00	95.50	3.00	2.87	95.67	87.67	Fossiliferous limestone	Grey-dark grey, fine to medium grained, hard & compact fossiliferous limestone with fossils of Nummulite sp., Alveolina sp. and Discocyclina sp.
98.50	100.00	1.50	98.50	1.50	1.45	96.67	88.00	Fossiliferous limestone	Grey-dark grey, medium grained, hard & compact fossiliferous limestone with fossils of Nummulite sp., Assilina sp.
			100.00						
Borehole closed at the depth of 100.00 meters									

ANNEXURE II									
LITHOLOGS OF BOREHOLES DRILLED IN NW OF BORO LAKHINDONG BLOCK, DIMA HASAO DISTRICT, ASSAM									
BH No.- PBH04						Date of Commencement: 09/12/2024			
Latitude - N 25°28'07.8"						Date of Closing: 12/12/2024			
Longitude - E 92°36'20.0"						Final Depth: 100m			
Azimuth- Vertical						R.L.: 741m			
Depth(m)		Run	DEPTH & THICKNESS AFTER ADJUSTMENT (m)		Recovery (m)	Recovery (%)	RQD %	Rock type	Description of Lithology
			From	Thickness					
From (m)	To (m)								
0.00	1.00	1.00	0.00	1.00	0.30	30.00		Soil	Silty clay residual soil, Brownish in colour
1.00	2.00	1.00	1.00	1.00	0.35	35.00		Soil	Silty clay residual soil, Brownish-yellowish in colour
2.00	3.00	1.00	2.00	1.00	0.25	25.00		Soil	Silty clay residual soil, brownish yellow-greyish in colour
3.00	6.00	3.00	3.00	3.00	2.56	85.33	13.33	Shale	Grey, Calcareous shale, unfossiliferous, broken in parts
6.00	9.00	3.00	6.00	3.00	2.88	96.00	15.92	Shale	Calcareous shale, unfossiliferous mixed up with fossiliferous limestone at bottom. Greyish to brownish in colour. Fractures present at bottom.
9.00	12.00	3.00	9.00	0.22	0.20	92.00		Shale	Unfossiliferous shale, calcareous, brownish yellow in colour

			9.22	1.78	1.72		87.64	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Discocyclus sp., Asterocyclus sp. Cavity of calcite is present.
			11.00	1.00	0.84		15.00	Shale	Grey, unfossiliferous shale, calcareous. Loose at top.
12.00	15.00	3.00	12.00	2.00	1.95		16.57	Shale	Grey to dark grey, calcareous shale mixed up with fossiliferous limestone at bottom, loose at some parts.
			14.00	0.28	0.28	97.67	100.00	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Discocyclus sp., Asterocyclus sp.
			14.28	0.72	0.70		20.83	Shale	Grey to dark grey, calcareous shale, unfossiliferous
15.00	18.00	3.00	15.00	0.80	0.72		22.50	Shale	Grey to dark grey, calcareous shale, unfossiliferous
			15.80	2.20	2.20	97.33	90.45	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., Alveolina sp. Parting of shale is present at depth of 16.72m.
18.00	21.00	3.00	18.00	3.00	2.95	98.33	88.33	Fossiliferous Limestone	Greyish-Reddish white, fine to medium grained, hard & compact fossiliferous limestone along with major fossils Nummulite sp., Assilina sp. Slightly ferruginous.
21.00	24.00	3.00	21.00	1.03	0.90	92.67	55.33	Fossiliferous Limestone	Reddish-Greyish, fine to medium grained hard fossiliferous limestone along with major fossil Nummulite sp. Slightly ferruginous.

			22.03	0.34	0.30			Shale	Dark grey, calcareous shale
			22.37	1.63	1.58		56.44	Fossiliferous Limestone	Grey, medium grained, hard fossiliferous limestone containing fossils of Nummulite sp., Discocyclina sp. Broken at some places.
24.00	27.00	3.00	24.00	3.00	2.90	96.67	68.00	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with minor amount of Nummulite sp. fossils. Fractures present at middle, mud parting observed.
27.00	30.00	3.00	27.00	3.00	2.89	96.33	92.67	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp. Stylolites present.
30.00	33.00	3.00	30.00	3.00	2.92	97.33	94.33	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing major fossils Nummulite sp., Discocyclina sp.
33.00	36.00	3.00	33.00	3.00	2.90	96.67	88.33	Fossiliferous Limestone	Grey to dark grey, medium grained, hard & compact fossiliferous limestone with fossils of mainly Nummulite sp.
36.00	39.00	3.00	36.00	3.00	2.94	98.00	82.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp.
39.00	42.00	3.00	39.00	3.00	2.95	98.33	93.00	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp. mainly.
42.00	45.00	3.00	42.00	3.00	2.82	94.00	37.33	Shale	Grey to dark grey, calcareous shale, unfossiliferous

45.00	48.00	3.00	45.00	3.00	2.94	98.00	77.67	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Asterocyclina sp., Discocyclina sp., Nummulite sp., Assilina sp. Mixed up with shale at middle portion.
48.00	51.00	3.00	48.00	3.00	2.93	97.67	89.33	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Assilina sp.
51.00	54.00	3.00	51.00	3.00	2.98	99.33	94.00	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Nummulite sp., with minor amount of Discocyclina sp., Alveolina sp. Stylolites prominent at places.
54.00	57.00	3.00	54.00	3.00	2.99	99.67	89.67	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with fossils of Nummulite sp., Discocyclina sp. mainly. Stylolites present at 55.20m depth.
57.00	60.00	3.00	57.00	3.00	3.00	100.00	90.67	Fossiliferous Limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with major fossils of Nummulite sp., Asterocyclina sp., Discocyclina sp., Assilina sp. mainly.
60.00	63.00	3.00	60.00	3.00	2.87	95.67	89.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard and compact fossiliferous limestone containing fossils of Discocyclina sp., Asterocyclina sp., Alveolina sp., with minor amount of Nummulite sp. Fossils.
63.00	66.00	3.00	63.00	3.00	2.94	98.00	84.67	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Discocyclina sp., Nummulite sp., Alveolina sp.

66.00	69.00	3.00	66.00	3.00	2.93	97.67	95.33	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone containing fossils of Discocyclina sp., Nummulite sp., Assilina sp.
69.00	72.00	3.00	69.00	3.00	2.96	98.67	91.00	Fossiliferous Limestone	Grey to dark grey, medium grained, hard & compact fossiliferous limestone containing Nummulite sp., Asterocyclina sp, Assilina sp. Fossils. Stylolites are observed at some parts.
72.00	75.00	3.00	72.00	3.00	2.89	96.33	91.33	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone with mostly Discocyclina sp., Nummulite sp., Asterocyclina sp, Assilina sp. fossils.
75.00	78.00	3.00	75.00	3.00	2.99	99.67	88.67	Fossiliferous Limestone	Grey, fine to medium grained, hard fossiliferous limestone containing less amount of Nummulite sp., and Assilina sp. Fossils. Stylolites are present. Fractures are present.
78.00	81.00	3.00	78.00	3.00	2.90	96.67	92.67	Fossiliferous Limestone	Grey, fine to medium grained, hard fossiliferous limestone containing less amount of Nummulite sp., and Alveolina sp. Fossils.
81.00	84.00	3.00	81.00	3.00	2.90	96.67	95.00	Fossiliferous Limestone	Grey, fine to medium grained, hard and compact fossiliferous limestone with abundance of Nummulite sp., Assilina sp., Discocyclina sp. fossils.
84.00	87.00	3.00	84.00	3.00	2.91	97.00	92.67	Fossiliferous Limestone	Grey, fine to medium grained, hard fossiliferous limestone with fossil content of Assilina sp., Nummulite sp., and Alveolina sp.

87.00	90.00	3.00	87.00	3.00	2.99	99.67	97.33	Fossiliferous Limestone	Grey, fine to medium grained, compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp. Calcite vein present at 89.30m depth.
90.00	93.00	3.00	90.00	3.00	3.00	100.00	95.00	Fossiliferous Limestone	Grey, medium grained, hard & compact fossiliferous limestone containing less amount of Nummulite sp., Assilina sp., fossils. Stylolites are prominent. Less amount of Discocyclus sp. fossils.
93.00	96.00	3.00	93.00	3.00	2.96	98.67	89.00	Fossiliferous Limestone	Grey, fine to medium grained, compact fossiliferous limestone containing fossils of Nummulite sp., Assilina sp., and Discocyclus sp. Veins of calcite present.
96.00	99.00	3.00	96.00	3.00	2.95	98.33	86.00	Fossiliferous Limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., and Alveolina sp. fossils mainly. Fractures present.
99.00	100.00	1.00	99.00	1.00	0.99	99.00	87.00	Fossiliferous Limestone	Grey to dark grey, medium grained, hard and compact fossiliferous limestone containing fossils of mainly Nummulite sp., Discocyclus sp.
			100.00						
Borehole closed at the depth of 100.00 meters									

ANNEXURE II									
LITHOLOGS OF BOREHOLES DRILLED IN NW OF BORO LAKHINDONG BLOCK, DIMA HASAO DISTRICT, ASSAM									
BH No.- PBH05						Date of Commencement:14/12/2024			
Latitude - N 25°28'05.2"						Date of Closing: 16/12/2024			
Longitude - E 92°36'48.3"						Final Depth: 100m			
Azimuth- Vertical						R.L.: 732m			
Depth(m)		Run	DEPTH & THICKNESS AFTER ADJUSTMENT (m)		Recovery (m)	Recovery (%)	RQD %	Rock type	Description of Lithology
			From	Thickness					
From (m)	To (m)								
0.00	1.00	1.00	0.00	1.00	0.25	25.00		Soil	Soil, Brownish yellow in colour
1.00	2.00	2.00	1.00	1.00	0.30	15.00		Soil	Soil, Brownish yellow-yellow in colour
2.00	3.00	1.00	2.00	0.40	0.38	92.00		Soil	Silty clay residual soil, brownish-dark grey in colour
			2.40	0.60	0.54			Shale	Grey-dark grey, unfossiliferous and calcareous shale
3.00	6.00	3.00	3.00	3.00	2.80	93.33	13.56	Shale	Grey, calcareous and unfossiliferous shale. Loose at middle and bottom.
6.00	9.00	3.00	6.00	0.57	0.56	98.33	12.67	Shale	Grey-dark grey, unfossiliferous and calcareous shale

			6.57	1.51	1.50		46.29	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of <i>Asterocyclina</i> sp., <i>Discocyclina</i> sp. fossils.
			8.08	0.92	0.89		19.73	Shale	Grey-dark grey, unfossiliferous and calcareous shale
9.00	12.00	3.00	9.00	0.46	0.42		15.13	Shale	Grey-dark grey, unfossiliferous and calcareous shale
			9.46	1.47	1.37	91.67	39.45	Fossiliferous limestone	Grey fossiliferous limestone mixed up with grey shale at middle. Fractured and broken.
			10.93	1.07	0.96		14.95	Shale	Grey, calcareous and unfossiliferous shale.
12.00	15.00	3.00	12.00	1.88	1.85		16.72	Shale	Grey to dark grey calcareous shale, mixed up with fossiliferous limestone at bottom.
			13.88	0.70	0.68	97.67	22.70	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of <i>Nummulite</i> sp., <i>Discocyclina</i> sp. fossils.
			14.58	0.42	0.40			Shale	Grey-dark grey, unfossiliferous and calcareous shale
15.00	18.00	3.00	15.00	1.14	1.10		15.40	Shale	Grey-dark grey, unfossiliferous and calcareous shale
			16.14	1.86	1.84	98.00	56.45	Fossiliferous limestone	Dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of <i>Nummulite</i> sp., <i>Discocyclina</i> sp. fossils. Cavity of calcite present.
18.00	21.00	3.00	18.00	3.00	2.96	98.67	75.67	Fossiliferous limestone	Whitish Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of <i>Nummulite</i> sp., <i>Assilina</i> sp. fossils. Vertical fractures are observed at top and bottom. Secondary growth of calcite is seen within fractures.

21.00	24.00	3.00	21.00	3.00	2.99	99.67	84.00	Fossiliferous limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Asterocyclina sp. fossils. Mixed up with shale at middle. Cavity of calcite is present.
24.00	27.00	3.00	24.00	3.00	2.98	99.33	87.67	Fossiliferous limestone	Grey to dark grey, medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Asterocyclina sp. fossils. Shale is present at top portion. Stylolite is also present.
27.00	30.00	3.00	27.00	3.00	3.00	100.00	89.00	Fossiliferous limestone	Whitish Grey, fine to medium grained, hard & compact fossiliferous limestone with fossil abundance of Nummulite sp. Mud parting is present.
30.00	33.00	3.00	30.00	3.00	2.93	97.67	90.67	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Assilina sp. fossils.
33.00	36.00	3.00	33.00	3.00	2.98	99.33	98.33	Fossiliferous limestone	Grey to dark grey, medium grained, hard & compact fossiliferous limestone with abundance of Nummulite sp., Assilina sp. fossils.
36.00	39.00	3.00	36.00	3.00	2.99	99.67	79.33	Fossiliferous limestone	Whitish grey-grey, fine to medium grained, hard & compact fossiliferous limestone with presence of Nummulite sp., Assilina sp. Fossils mostly.
39.00	42.00	3.00	39.00	3.00	3.00	100.00	88.00	Fossiliferous limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp. Sub-vertical fractures are present at bottom.

42.00	45.00	3.00	42.00	3.00	2.95	98.33	41.67	Shale	Dark grey shale, unfossiliferous and calcareous
45.00	48.00	3.00	45.00	3.00	3.00	100.00	94.67	Fossiliferous limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp., Asterocyclina sp., Assilina sp. Shale patch is present at middle.
48.00	51.00	3.00	48.00	3.00	3.00	100.00	98.22	Fossiliferous limestone	Grey, medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp., Assilina sp. Fractures present.
51.00	54.00	3.00	51.00	3.00	3.00	100.00	91.67	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with fossils of Nummulite sp., Discocyclina sp., Assilina sp.
54.00	57.00	3.00	54.00	3.00	2.96	98.67	93.33	Fossiliferous limestone	Grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp., Assilina sp.
57.00	60.00	3.00	57.00	3.00	2.97	99.00	92.00	Fossiliferous limestone	Grey to dark grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp., Asterocyclina sp., Assilina sp.
60.00	63.00	3.00	60.00	3.00	3.00	100.00	90.33	Fossiliferous limestone	Grey to dark grey, medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp., Asterocyclina sp.
63.00	66.00	3.00	63.00	3.00	3.00	100.00	86.00	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the

									presence of fossils Nummulite sp., Discocyclina sp., Alveolina sp.
66.00	69.00	3.00	66.00	3.00	2.99	99.67	74.67	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Assilina sp.
69.00	72.00	3.00	69.00	3.00	3.00	100.00	92.67	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Assilina sp.
72.00	75.00	3.00	72.00	3.00	3.00	100.00	84.33	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp., Alveolina sp.
75.00	78.00	3.00	75.00	3.00	2.99	99.67	87.33	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Discocyclina sp. Fractures present at bottom part.
78.00	81.00	3.00	78.00	3.00	3.00	100.00	81.67	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Assilina sp.
81.00	84.00	3.00	81.00	3.00	3.00	100.00	93.67	Fossiliferous limestone	Whitish grey-grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Assilina sp., Alveolina sp.
84.00	87.00	3.00	84.00	3.00	2.95	98.33	90.67	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Alveolina sp., Assilina sp.

87.00	90.00	3.00	87.00	3.00	2.96	98.67	93.67	Fossiliferous limestone	Whitish grey-grey, fine to medium grained, hard & compact fossiliferous limestone with the presence of fossils Nummulite sp., Assilina sp.
90.00	93.00	3.00	90.00	3.00	3.00	100.00	95.67	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with low abundance of fossil content
93.00	96.00	3.00	93.00	3.00	2.99	99.67	88.00	Fossiliferous limestone	Whitish grey-grey, fine to medium grained, hard & compact fossiliferous limestone with low abundance of fossil content
96.00	99.00	3.00	96.00	3.00	2.99	99.67	74.33	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with low abundance of fossil content
99.00	100.00	1.00	99.00	1.00	0.99	99.00	73.00	Fossiliferous limestone	Whitish grey, fine to medium grained, hard & compact fossiliferous limestone with low abundance of fossil content
			100.00						
Borehole closed at the depth of 100.00 meters									

ANNEXURE III**DETAILS OF ANALYTICAL RESULTS OF BED ROCK SAMPLES**

S. No.	SAMPLE ID	LITHOLOGY	CaO %	MgO %	SiO ₂ %	INFERRED GRADE	Al ₂ O ₃ %	BaO %	Cr ₂ O ₃ %	Total Iron as Fe %	Total Iron as Fe ₂ O ₃	K ₂ O %	MgO %	MnO %	Na ₂ O %	P ₂ O ₅ %	SO ₃ %	TiO ₂ %	SiO ₂ %	V ₂ O ₅ %	LOI %
1	BLD-01	Limestone	46.86	1.16	4.49	Cement (Portland)	2.59	<0.05	<0.05	3.05	4.36	0.23	1.16	<0.05	<0.08	0.05	0.20	0.12	4.49	<0.05	39.72
2	BLD-02	Limestone	49.34	0.88	1.42	SMS (OH)	1.15	<0.05	<0.05	3.22	4.61	0.10	0.88	1.10	<0.08	0.12	0.10	<0.05	1.42	<0.05	40.92
3	BLD-05	Limestone	46.01	1.15	5.93	Cement (Portland)	2.64	<0.05	<0.05	2.83	4.05	0.29	1.15	0.07	<0.08	0.22	0.10	0.12	5.93	<0.05	39.23
4	BLD-06	Limestone	49.68	1.30	3.54	SMS (OH)	1.99	<0.05	<0.05	0.92	1.31	0.15	1.30	<0.05	<0.08	<0.05	0.48	0.08	3.54	<0.05	41.29
5	BLD-07	Limestone	49.60	1.31	3.41	SMS (OH)	1.85	<0.05	<0.05	1.21	1.73	0.14	1.31	<0.05	<0.08	<0.05	0.66	0.07	3.41	<0.05	41.07
6	BLD-08	Limestone	44.43	1.37	2.79	Cement (Portland)	1.97	<0.05	<0.05	6.17	8.82	0.11	1.37	1.31	<0.08	0.28	0.11	0.07	2.79	<0.05	38.53
7	BLD-09	Limestone	48.43	1.23	2.72	SMS (OH)	1.64	<0.05	<0.05	2.93	4.18	0.10	1.23	0.18	<0.08	0.05	1.00	0.07	2.72	<0.05	40.19
8	BLD-10	Limestone	49.23	1.37	3.51	SMS (OH)	1.91	<0.05	<0.05	1.36	1.95	0.16	1.37	<0.05	<0.08	<0.05	0.75	0.07	3.51	<0.05	40.84
9	BLD-11	Limestone	47.72	1.20	3.44	Cement (Portland)	2.08	<0.05	<0.05	3.08	4.41	0.17	1.20	<0.05	<0.08	<0.05	0.18	0.09	3.44	<0.05	40.44
10	BLD-12	Limestone	52.25	0.96	1.43	SMS (L.D.)	1.08	<0.05	<0.05	0.61	0.87	0.06	0.96	<0.05	<0.08	<0.05	0.09	<0.05	1.43	<0.05	43.07
11	BLD-13	Limestone	50.43	1.09	2.72	SMS (OH)	1.70	<0.05	<0.05	1.02	1.45	0.12	1.09	<0.05	<0.08	<0.05	0.22	0.06	2.72	<0.05	42.06
12	BLD-14	Limestone	45.82	1.42	3.27	Cement (Portland)	1.95	<0.05	<0.05	4.71	6.73	0.07	1.42	0.41	<0.08	0.06	1.14	0.06	3.27	<0.05	38.89
13	BLD-16	Limestone	33.47	1.37	9.88	-	4.90	<0.05	<0.05	12.06	17.24	0.45	1.37	0.48	<0.08	0.57	0.19	0.24	9.88	<0.05	31.00
14	BLD-17	Limestone	42.64	1.29	8.45	Cement (Blendable)	2.23	<0.05	<0.05	4.95	7.07	0.23	1.29	0.79	<0.08	0.31	0.10	0.10	8.45	<0.05	36.58

15	BLD-18	Limestone	40.24	1.60	4.22	Cement (Blendable)	2.55	<0.0 5	<0.0 5	9.84	14.0 6	0.15	1.60	0.31	<0.0 8	0.38	0.09	0.10	4.22	<0.0 5	36.0 8
16	BLD-19	Limestone	47.16	1.28	4.39	Cement (Portland)	2.42	<0.0 5	<0.0 5	2.48	3.55	0.21	1.28	0.17	<0.0 8	0.06	1.01	0.11	4.39	<0.0 5	39.4 7
17	BLD-20	Limestone	50.46	1.10	2.60	SMS (OH)	1.75	<0.0 5	<0.0 5	1.08	1.55	0.11	1.10	<0.0 5	<0.0 8	<0.0 5	0.62	0.05	2.60	<0.0 5	41.6 0
18	BLD-21	Limestone	46.71	1.23	3.19	Cement (Portland)	1.78	<0.0 5	<0.0 5	4.53	6.47	0.10	1.23	0.39	<0.0 8	0.07	0.07	0.06	3.19	<0.0 5	39.7 7
19	BLD-22	Limestone	41.44	1.40	4.19	Cement (Blendable)	2.57	<0.0 5	<0.0 5	8.54	12.2 1	0.16	1.40	0.24	<0.0 8	0.29	0.08	0.10	4.19	<0.0 5	37.1 4
20	BLD-23	Limestone	49.51	1.12	2.59	SMS (OH)	1.51	<0.0 5	<0.0 5	1.90	2.72	0.10	1.12	0.26	<0.0 8	<0.0 5	0.29	0.06	2.59	<0.0 5	41.6 5
21	BLD-24	Limestone	47.79	1.38	3.48	Cement (Portland)	1.94	<0.0 5	<0.0 5	2.85	4.07	0.16	1.38	0.17	<0.0 8	<0.0 5	0.09	0.09	3.48	<0.0 5	40.6 0
22	BLD-25	Limestone	47.98	1.10	3.53	Cement (Portland)	1.87	<0.0 5	<0.0 5	2.76	3.95	0.17	1.10	0.13	<0.0 8	0.05	0.09	0.09	3.53	<0.0 5	40.9 0
23	BLD-26	Limestone	48.64	1.07	2.36	SMS (OH)	1.26	<0.0 5	<0.0 5	3.62	5.17	0.08	1.07	0.20	<0.0 8	<0.0 5	0.08	0.06	2.36	<0.0 5	40.8 7
24	BLD-27	Limestone	44.51	1.47	4.09	Cement (Portland)	2.21	<0.0 5	<0.0 5	5.69	8.13	0.16	1.47	0.77	<0.0 8	0.05	0.09	0.08	4.09	<0.0 5	38.2 4
25	BLD-28	Limestone	41.99	1.37	4.16	Cement (Blendable)	2.45	<0.0 5	<0.0 5	8.35	11.9 3	0.20	1.37	0.23	<0.0 8	0.16	0.08	0.10	4.16	<0.0 5	37.1 3
26	BLD-29	Limestone	46.21	1.39	4.46	Cement (Portland)	2.27	<0.0 5	<0.0 5	3.61	5.16	0.21	1.39	0.17	<0.0 8	<0.0 5	0.09	0.10	4.46	<0.0 5	39.6 8
27	BLD-30	Limestone	44.38	1.22	4.17	Cement (Portland)	2.05	<0.0 5	<0.0 5	6.41	9.16	0.13	1.22	0.39	<0.0 8	0.10	0.06	0.08	4.17	<0.0 5	38.0 7
28	BLD-31	Limestone	44.30	1.13	3.75	Cement (Portland)	1.91	<0.0 5	<0.0 5	6.66	9.52	0.10	1.13	0.27	<0.0 8	0.11	0.07	0.07	3.75	<0.0 5	38.5 7
29	BLD-32	Limestone	48.28	1.02	3.48	SMS (OH)	1.81	<0.0 5	<0.0 5	2.81	4.02	0.18	1.02	0.15	<0.0 8	<0.0 5	0.08	0.10	3.48	<0.0 5	40.6 8
30	BLD-33	Limestone	48.28	1.09	3.53	SMS (OH)	1.82	<0.0 5	<0.0 5	2.73	3.90	0.16	1.09	0.12	<0.0 8	<0.0 5	0.09	0.09	3.53	<0.0 5	40.7 2
31	BLD-34	Limestone	44.24	1.78	4.01	Cement (Portland)	1.91	<0.0 5	<0.0 5	5.94	8.49	0.09	1.78	0.46	<0.0 8	0.06	1.35	0.07	4.01	<0.0 5	37.3 6
32	BLD-35	Limestone	49.68	1.01	2.67	SMS (OH)	1.63	<0.0 5	<0.0 5	1.91	2.72	0.11	1.01	0.41	<0.0 8	<0.0 5	0.09	0.06	2.67	<0.0 5	41.4 4
33	BLD-36	Limestone	41.43	1.39	5.81	Cement (Blendable)	3.32	<0.0 5	<0.0 5	7.05	10.0 9	0.28	1.39	0.17	<0.0 8	0.13	0.07	0.16	5.81	<0.0 5	36.9 7

34	BLD-37	Limestone	41.39	1.33	5.74	Cement (Blendable)	2.94	<0.0 5	<0.0 5	7.44	10.6 4	0.27	1.33	0.16	<0.0 8	0.14	0.07	0.16	5.74	<0.0 5	36.9 6
35	BLD-38	Limestone	47.33	1.15	3.17	Cement (Portland)	1.99	<0.0 5	<0.0 5	3.52	5.04	0.15	1.15	0.46	<0.0 8	0.08	0.08	0.08	3.17	<0.0 5	40.2 9
36	BLD-39	Limestone	45.38	1.07	1.73	Cement (Portland)	1.36	<0.0 5	<0.0 5	6.65	9.51	<0.0 5	1.07	1.35	<0.0 8	0.22	<0.0 5	<0.0 5	1.73	<0.0 5	39.0 3
37	BLD-40	Limestone	44.42	1.54	4.23	Cement (Portland)	2.01	<0.0 5	<0.0 5	5.64	8.07	0.12	1.54	0.81	<0.0 8	<0.0 5	0.07	0.07	4.23	<0.0 5	38.3 9
38	BLD-44	Limestone	48.79	1.01	3.31	SMS (OH)	1.74	<0.0 5	<0.0 5	2.43	3.47	0.17	1.01	0.15	<0.0 8	<0.0 5	0.08	0.09	3.31	<0.0 5	40.9 9
39	BLD-45	Limestone	48.86	1.07	2.33	SMS (OH)	1.55	<0.0 5	<0.0 5	2.90	4.15	0.12	1.07	0.47	<0.0 8	<0.0 5	0.10	0.06	2.33	<0.0 5	41.1 0
40	BLD-46	Limestone	48.16	1.12	2.96	SMS (OH)	1.76	<0.0 5	<0.0 5	3.00	4.28	0.12	1.12	0.48	<0.0 8	<0.0 5	0.14	0.07	2.96	<0.0 5	40.7 2
41	BLD-47	Limestone	44.59	1.35	3.80	Cement (Portland)	2.46	<0.0 5	0.05	5.29	7.56	0.27	1.35	0.55	<0.0 8	0.49	0.09	0.10	3.80	<0.0 5	38.5 0
42	BLD-48	Limestone	44.20	1.32	4.85	Cement (Portland)	2.14	<0.0 5	<0.0 5	5.35	7.66	0.15	1.32	0.75	<0.0 8	0.15	0.07	0.08	4.85	<0.0 5	38.4 2
43	BLD-49	Limestone	49.00	1.01	2.94	SMS (OH)	1.75	<0.0 5	<0.0 5	2.19	3.12	0.13	1.01	0.42	<0.0 8	<0.0 5	0.10	0.06	2.94	<0.0 5	41.2 8
44	BLD-50	Limestone	44.82	1.32	3.34	Cement (Portland)	1.96	<0.0 5	<0.0 5	5.22	7.47	0.13	1.32	1.47	<0.0 8	0.11	0.11	0.08	3.34	<0.0 5	38.9 8
45	BLD-51	Limestone	45.60	1.29	3.56	Cement (Portland)	2.04	<0.0 5	<0.0 5	4.87	6.97	0.22	1.29	0.68	<0.0 8	0.22	0.09	0.10	3.56	<0.0 5	39.0 4
46	BLD-52	Limestone	44.93	1.34	3.06	Cement (Portland)	1.91	<0.0 5	<0.0 5	5.31	7.60	0.14	1.34	1.38	<0.0 8	0.07	0.11	0.08	3.06	<0.0 5	39.1 7
47	BLD-53	Limestone	49.47	1.10	2.87	SMS (OH)	1.48	<0.0 5	<0.0 5	1.92	2.74	0.11	1.10	0.28	<0.0 8	<0.0 5	0.17	0.06	2.87	<0.0 5	41.5 3
1	BLD-03	Sandstone	0.13	<0.0 5	87.9 0	-	1.96	<0.0 5	<0.0 5	4.96	7.10	0.13	<0.0 5	<0.0 5	0.08	0.07	<0.0 5	0.18	87.9 0	<0.0 5	2.35
2	BLD-04	Sandstone	0.06	<0.0 5	94.4 6	-	1.99	<0.0 5	<0.0 5	1.02	1.46	0.20	<0.0 5	<0.0 5	0.08	<0.0 5	<0.0 5	0.18	94.4 6	<0.0 5	1.48
3	BLD-41	Sandstone	0.14	<0.0 5	91.5 7	-	1.92	<0.0 5	<0.0 5	2.40	3.43	0.39	<0.0 5	0.37	0.08	<0.0 5	<0.0 5	0.30	91.5 7	<0.0 5	1.60
4	BLD-42	Sandstone	0.24	<0.0 5	92.3 3	-	2.09	<0.0 5	<0.0 5	2.05	2.94	0.19	<0.0 5	<0.0 5	0.08	<0.0 5	<0.0 5	0.20	92.3 3	<0.0 5	1.80
5	BLD-43	Sandstone	0.25	<0.0 5	89.6 8	-	1.95	<0.0 5	<0.0 5	3.91	5.58	0.14	<0.0 5	<0.0 5	0.08	0.07	<0.0 5	0.18	89.6 8	<0.0 5	1.97
6	BLD-15	Sandstone	0.40	<0.0 5	92.0 3	-	1.33	<0.0 5	<0.0 5	2.80	4.01	0.10	<0.0 5	<0.0 5	0.08	<0.0 5	<0.0 5	0.15	92.0 3	<0.0 5	1.78

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-01

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
1	BLD/PBH01/01	4.00	5.00	1.00	3.58	<0.05	42.25	<0.05	2.85	4.07	0.35	2.59	<0.05	<0.08	<0.05	1.30	0.15	8.74	0.11	<0.05	36.72
2	BLD/PBH01/02	5.00	6.00	1.00	2.51	<0.05	45.90	<0.05	2.14	3.06	0.23	2.22	0.06	<0.08	<0.05	1.02	0.10	5.60	0.10	<0.05	39.09
3	BLD/PBH01/03	6.00	7.00	1.00	2.44	<0.05	45.36	<0.05	2.59	3.71	0.22	2.57	0.11	<0.08	<0.05	1.29	0.10	5.08	0.09	<0.05	38.89
4	BLD/PBH01/04	7.00	8.00	1.00	2.18	<0.05	46.62	<0.05	2.76	3.95	0.19	2.09	0.20	<0.08	<0.05	1.29	0.08	4.08	0.11	<0.05	39.08
5	BLD/PBH01/05	8.00	9.00	1.00	1.84	<0.05	47.59	<0.05	2.19	3.14	0.14	1.90	0.32	<0.08	<0.05	1.62	0.07	3.45	0.09	<0.05	39.73
6	BLD/PBH01/06	9.00	10.00	1.00	2.66	<0.05	44.43	<0.05	3.81	5.45	0.21	2.27	0.31	<0.08	<0.05	2.14	0.10	4.94	0.08	<0.05	37.26
7	BLD/PBH01/07	10.00	11.00	1.00	2.23	<0.05	47.29	<0.05	2.32	3.31	0.20	1.62	0.24	<0.08	<0.05	1.72	0.09	4.08	0.08	<0.05	39.02
8	BLD/PBH01/08	11.00	12.00	1.00	1.72	<0.05	48.98	<0.05	2.10	3.01	0.11	1.50	0.31	<0.08	<0.05	1.27	0.06	3.05	0.08	<0.05	39.79
9	BLD/PBH01/09	12.00	13.00	1.00	2.11	<0.05	47.50	<0.05	2.11	3.02	0.15	1.70	0.19	<0.08	<0.05	1.69	0.08	3.58	0.08	<0.05	39.78
10	BLD/PBH01/10	13.00	14.00	1.00	3.03	<0.05	43.30	<0.05	3.60	5.15	0.29	2.81	0.13	<0.08	0.09	0.86	0.15	5.88	0.08	<0.05	38.13
11	BLD/PBH01/11	14.00	15.00	1.00	3.35	<0.05	42.19	<0.05	4.64	6.64	0.32	3.14	0.13	<0.08	0.06	0.68	0.16	6.17	0.10	<0.05	36.94
12	BLD/PBH01/12	15.00	16.00	1.00	3.32	<0.05	42.23	<0.05	4.35	6.22	0.32	2.94	<0.05	<0.08	0.07	0.70	0.16	5.97	0.10	<0.05	37.82
13	BLD/PBH01/13	16.00	17.00	1.00	3.43	<0.05	42.73	<0.05	4.17	5.96	0.33	2.61	<0.05	<0.08	0.09	0.78	0.17	6.29	0.11	<0.05	37.37
14	BLD/PBH01/14	17.00	18.00	1.00	4.65	<0.05	39.62	<0.05	3.15	4.50	0.54	3.52	<0.05	<0.08	0.11	0.70	0.24	9.63	0.11	<0.05	36.29
15	BLD/PBH01/15	18.00	19.00	1.00	5.66	<0.05	35.55	<0.05	4.68	6.69	0.65	4.08	<0.05	<0.08	0.10	0.64	0.28	11.78	0.10	<0.05	34.35
16	BLD/PBH01/16	19.00	20.00	1.00	5.03	<0.05	37.48	<0.05	6.31	9.02	0.52	2.71	<0.05	<0.08	0.15	0.64	0.25	9.79	0.11	<0.05	34.19
17	BLD/PBH01/17	20.00	21.00	1.00	2.96	<0.05	44.59	<0.05	1.96	2.80	0.30	2.61	<0.05	<0.08	<0.05	0.74	0.15	6.43	0.10	<0.05	39.19
18	BLD/PBH01/18	21.00	22.00	1.00	4.50	<0.05	40.47	<0.05	3.83	5.48	0.45	2.57	<0.05	<0.08	0.09	1.03	0.23	8.97	0.10	<0.05	36.00
19	BLD/PBH01/19	22.00	23.00	1.00	3.51	<0.05	42.59	<0.05	4.27	6.10	0.33	2.30	<0.05	<0.08	0.12	1.29	0.17	6.63	0.10	<0.05	36.75
20	BLD/PBH01/20	23.00	24.00	1.00	2.81	<0.05	45.49	<0.05	2.90	4.14	0.25	1.70	<0.05	<0.08	0.06	1.59	0.13	5.13	0.08	<0.05	38.51
21	BLD/PBH01/21	24.00	25.00	1.00	2.73	<0.05	47.22	<0.05	2.48	3.54	0.18	1.66	<0.05	<0.08	<0.05	1.60	0.10	4.72	0.07	<0.05	38.04
22	BLD/PBH01/22	25.00	26.00	1.00	2.72	<0.05	45.78	<0.05	2.40	3.43	0.19	1.63	<0.05	<0.08	0.06	1.92	0.11	4.84	0.07	<0.05	39.13
23	BLD/PBH01/23	26.00	27.00	1.00	2.48	<0.05	50.05	<0.05	1.22	1.74	0.19	1.33	<0.05	<0.08	<0.05	0.95	0.11	4.13	0.07	<0.05	38.84

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-01

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
24	BLD/PBH01/24	27.00	28.00	1.00	2.32	<0.05	48.82	<0.05	1.19	1.70	0.18	1.28	<0.05	<0.08	<0.05	0.92	0.11	3.96	0.07	<0.05	40.53
25	BLD/PBH01/25	28.00	29.00	1.00	2.42	<0.05	48.05	<0.05	1.46	2.08	0.21	1.40	<0.05	<0.08	<0.05	0.98	0.12	4.45	0.09	<0.05	40.09
26	BLD/PBH01/26	29.00	30.00	1.00	2.48	<0.05	47.30	<0.05	1.69	2.42	0.22	1.35	<0.05	<0.08	<0.05	1.82	0.12	4.59	0.09	<0.05	39.50
27	BLD/PBH01/27	30.00	31.00	1.00	2.50	<0.05	48.35	<0.05	1.29	1.85	0.20	1.41	<0.05	<0.08	<0.05	0.80	0.11	4.49	0.07	<0.05	40.13
28	BLD/PBH01/28	31.00	32.00	1.00	3.16	<0.05	45.90	<0.05	2.00	2.86	0.25	1.71	<0.05	<0.08	<0.05	1.21	0.12	6.01	0.09	<0.05	38.57
29	BLD/PBH01/29	32.00	33.00	1.00	1.45	<0.05	50.88	<0.05	1.00	1.43	0.07	1.11	<0.05	<0.08	<0.05	0.59	<0.05	2.35	0.06	<0.05	41.92
30	BLD/PBH01/30	33.00	34.00	1.00	1.28	<0.05	50.83	<0.05	1.05	1.50	0.07	1.11	<0.05	<0.08	<0.05	0.89	<0.05	2.08	0.06	<0.05	41.81
31	BLD/PBH01/31	34.00	35.00	1.00	1.84	<0.05	49.95	<0.05	1.18	1.68	0.09	1.20	<0.05	<0.08	<0.05	1.00	0.05	2.77	<0.05	<0.05	41.27
32	BLD/PBH01/32	35.00	36.00	1.00	1.56	<0.05	50.55	<0.05	1.01	1.44	0.11	1.15	<0.05	<0.08	<0.05	0.78	0.06	2.79	0.05	<0.05	41.41
33	BLD/PBH01/33	36.00	37.00	1.00	1.48	<0.05	51.34	<0.05	0.79	1.12	0.09	1.01	<0.05	<0.08	<0.05	0.70	<0.05	2.09	<0.05	<0.05	41.97
34	BLD/PBH01/34	37.00	38.00	1.00	1.68	<0.05	50.83	<0.05	0.83	1.19	0.12	1.05	<0.05	<0.08	<0.05	0.69	0.06	2.47	<0.05	<0.05	41.75
35	BLD/PBH01/35	38.00	39.00	1.00	1.87	<0.05	50.47	<0.05	0.81	1.16	0.13	1.11	<0.05	<0.08	<0.05	0.67	0.06	2.65	<0.05	<0.05	41.73
36	BLD/PBH01/36	39.00	40.00	1.00	1.84	<0.05	50.28	<0.05	0.92	1.32	0.16	1.09	<0.05	<0.08	<0.05	0.84	0.07	2.98	0.05	<0.05	41.26
37	BLD/PBH01/37	40.00	41.00	1.00	2.30	<0.05	48.76	<0.05	1.36	1.94	0.20	1.29	<0.05	<0.08	<0.05	1.26	0.08	3.82	0.05	<0.05	40.17
38	BLD/PBH01/38	41.00	42.00	1.00	1.63	<0.05	50.82	<0.05	0.87	1.24	0.13	1.07	<0.05	<0.08	<0.05	0.84	0.06	2.34	0.05	<0.05	41.72
39	BLD/PBH01/39	42.00	43.00	1.00	1.69	<0.05	50.39	<0.05	0.90	1.28	0.17	1.11	<0.05	<0.08	<0.05	0.67	0.07	2.93	0.06	<0.05	41.53
41	BLD/PBH01/40	43.00	44.00	1.00	2.01	<0.05	49.78	<0.05	1.08	1.55	0.17	1.23	<0.05	<0.08	<0.05	0.88	0.07	3.09	0.05	<0.05	41.06
42	BLD/PBH01/41	44.00	45.00	1.00	1.40	<0.05	50.53	<0.05	1.30	1.86	0.11	1.11	<0.05	<0.08	<0.05	1.08	<0.05	2.46	0.05	<0.05	41.23
43	BLD/PBH01/42	45.00	46.00	1.00	1.84	<0.05	50.02	<0.05	1.01	1.44	0.17	1.17	<0.05	<0.08	<0.05	0.81	0.07	3.20	0.06	<0.05	41.11
44	BLD/PBH01/43	46.00	47.00	1.00	1.51	<0.05	51.32	<0.05	0.68	0.97	0.09	1.05	<0.05	<0.08	<0.05	0.46	<0.05	1.92	<0.05	<0.05	42.49
45	BLD/PBH01/44	47.00	48.00	1.00	1.38	<0.05	50.97	<0.05	0.86	1.23	0.11	1.11	<0.05	<0.08	<0.05	0.57	0.05	2.40	0.06	<0.05	42.01
46	BLD/PBH01/45	48.00	49.00	1.00	1.49	<0.05	50.70	<0.05	1.06	1.51	0.10	1.16	<0.05	<0.08	<0.05	0.70	<0.05	2.41	0.05	<0.05	41.72
47	BLD/PBH01/46	49.00	50.00	1.00	1.39	<0.05	51.32	<0.05	0.80	1.15	0.09	1.09	<0.05	<0.08	<0.05	0.59	<0.05	2.10	0.06	<0.05	42.04

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-01

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
48	BLD/PBH01/47	50.00	51.00	1.00	2.03	<0.05	49.89	<0.05	0.86	1.23	0.17	1.18	<0.05	<0.08	<0.05	0.59	0.08	3.56	0.06	<0.05	41.09
49	BLD/PBH01/48	51.00	52.00	1.00	2.43	<0.05	48.44	<0.05	1.39	1.99	0.18	1.39	<0.05	<0.08	<0.05	0.78	0.09	4.26	0.06	<0.05	40.29
50	BLD/PBH01/49	52.00	53.00	1.00	1.99	<0.05	49.53	<0.05	1.30	1.85	0.14	1.29	<0.05	<0.08	<0.05	0.66	0.06	3.29	<0.05	<0.05	41.01
51	BLD/PBH01/50	53.00	54.00	1.00	2.11	<0.05	48.71	<0.05	1.49	2.14	0.19	1.37	<0.05	<0.08	<0.05	0.72	0.07	3.97	0.06	<0.05	40.54
52	BLD/PBH01/51	54.00	55.00	1.00	2.94	<0.05	46.61	<0.05	1.94	2.77	0.30	1.54	<0.05	<0.08	<0.05	0.93	0.11	5.70	0.06	<0.05	38.92
53	BLD/PBH01/52	55.00	56.00	1.00	2.82	<0.05	47.07	<0.05	1.80	2.57	0.24	1.51	<0.05	<0.08	<0.05	0.95	0.09	5.01	0.07	<0.05	39.55
54	BLD/PBH01/53	56.00	57.00	1.00	2.88	<0.05	46.13	<0.05	2.44	3.48	0.26	1.65	<0.05	<0.08	<0.05	1.25	0.11	5.86	0.07	<0.05	38.18
55	BLD/PBH01/54	57.00	58.00	1.00	3.13	<0.05	44.96	<0.05	2.59	3.70	0.31	1.60	<0.05	<0.08	<0.05	1.66	0.13	6.61	0.07	<0.05	37.69
56	BLD/PBH01/55	58.00	59.00	1.00	3.13	<0.05	46.23	<0.05	2.00	2.86	0.29	1.46	<0.05	<0.08	<0.05	1.15	0.14	5.94	0.08	<0.05	38.61
57	BLD/PBH01/56	59.00	60.00	1.00	3.62	<0.05	45.05	<0.05	2.48	3.54	0.33	1.49	<0.05	<0.08	<0.05	1.52	0.16	6.60	0.07	<0.05	37.45
58	BLD/PBH01/57	60.00	61.00	1.00	4.12	<0.05	43.48	<0.05	3.31	4.73	0.44	1.44	<0.05	<0.08	<0.05	1.70	0.21	7.41	0.06	<0.05	36.27
59	BLD/PBH01/58	61.00	62.00	1.00	2.88	<0.05	46.88	<0.05	2.31	3.30	0.26	1.18	<0.05	<0.08	<0.05	1.47	0.14	4.94	0.07	<0.05	38.75
60	BLD/PBH01/59	62.00	63.00	1.00	3.62	<0.05	44.96	<0.05	2.37	3.38	0.30	1.33	<0.05	<0.08	<0.05	1.53	0.17	6.66	0.07	<0.05	37.84
61	BLD/PBH01/60	63.00	64.00	1.00	3.46	<0.05	44.38	<0.05	2.72	3.89	0.28	1.48	<0.05	<0.08	<0.05	1.46	0.17	6.99	0.08	<0.05	37.54
62	BLD/PBH01/61	64.00	65.00	1.00	4.75	<0.05	40.86	<0.05	3.23	4.62	0.42	1.55	<0.05	<0.08	<0.05	2.11	0.31	10.59	<0.05	<0.05	34.58
63	BLD/PBH01/62	65.00	66.00	1.00	11.02	<0.05	24.59	<0.05	3.80	5.44	1.26	1.49	<0.05	<0.08	0.06	3.06	1.02	27.90	<0.05	<0.05	23.94
64	BLD/PBH01/63	66.00	67.00	1.00	7.72	<0.05	30.57	<0.05	3.34	4.77	0.94	1.13	<0.05	<0.08	<0.05	2.66	0.92	24.16	<0.05	<0.05	26.92
65	BLD/PBH01/64	67.00	68.00	1.00	10.52	<0.05	30.51	<0.05	3.31	4.73	1.03	1.31	<0.05	<0.08	<0.05	2.54	0.75	20.44	<0.05	<0.05	27.99
66	BLD/PBH01/65	68.00	69.00	1.00	5.72	<0.05	33.27	<0.05	3.46	4.94	0.74	1.19	<0.05	<0.08	<0.05	2.12	0.67	22.25	<0.05	<0.05	28.82
67	BLD/PBH01/66	69.00	70.00	1.00	6.14	<0.05	13.99	<0.05	4.09	5.84	1.16	0.92	<0.05	<0.08	<0.05	2.57	1.10	54.00	<0.05	<0.05	13.91
68	BLD/PBH01/67	70.00	71.00	1.00	10.10	<0.05	16.03	<0.05	4.43	6.34	1.53	1.16	<0.05	<0.08	<0.05	2.73	1.08	43.62	<0.05	<0.05	17.15
69	BLD/PBH01/68	71.00	72.00	1.00	15.01	<0.05	7.96	<0.05	5.12	7.31	1.74	1.35	<0.05	<0.08	0.05	2.99	1.39	48.89	<0.05	<0.05	13.02
70	BLD/PBH01/69	72.00	73.00	1.00	11.96	<0.05	14.12	<0.05	5.45	7.80	1.65	1.32	<0.05	<0.08	0.11	2.99	1.20	42.02	<0.05	<0.05	16.59

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-01

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
71	BLD/PBH01/70	73.00	74.00	1.00	11.59	<0.05	16.01	<0.05	4.92	7.04	1.53	1.19	<0.05	<0.08	0.07	3.33	1.15	40.24	<0.05	<0.05	17.61
72	BLD/PBH01/71	74.00	75.00	1.00	4.36	<0.05	5.21	<0.05	1.84	2.63	0.63	0.34	<0.05	<0.08	<0.05	1.55	0.70	78.26	<0.05	<0.05	6.07
73	BLD/PBH01/72	75.00	76.00	1.00	4.83	<0.05	17.90	<0.05	2.33	3.34	0.64	0.57	<0.05	<0.08	<0.05	1.63	0.97	53.76	<0.05	<0.05	15.99
74	BLD/PBH01/73	76.00	77.00	1.00	9.32	<0.05	15.32	<0.05	4.13	5.91	1.31	0.91	<0.05	<0.08	0.06	3.36	1.08	46.77	<0.05	<0.05	15.70
75	BLD/PBH01/74	77.00	78.00	1.00	9.83	<0.05	16.07	<0.05	3.73	5.33	1.29	0.88	<0.05	<0.08	<0.05	2.57	1.02	46.20	<0.05	<0.05	16.53
76	BLD/PBH01/75	78.00	79.00	1.00	11.48	<0.05	4.12	<0.05	4.14	5.92	2.06	1.00	<0.05	<0.08	<0.05	2.53	1.72	62.84	<0.05	<0.05	7.94
77	BLD/PBH01/76	79.00	80.00	1.00	9.16	<0.05	4.73	<0.05	3.36	4.81	1.66	0.73	<0.05	<0.08	<0.05	3.06	1.58	66.31	<0.05	<0.05	7.58
78	BLD/PBH01/77	80.00	81.00	1.00	5.69	<0.05	35.77	<0.05	4.39	6.28	0.69	1.29	0.09	<0.08	0.09	2.50	0.49	15.83	<0.05	<0.05	31.10
79	BLD/PBH01/78	81.00	82.00	1.00	6.02	<0.05	39.56	<0.05	2.50	3.57	0.56	0.83	0.11	<0.08	0.07	3.14	0.36	11.70	<0.05	<0.05	33.92
80	BLD/PBH01/79	82.00	82.76	0.76	4.68	<0.05	37.88	<0.05	5.66	8.09	0.40	0.68	0.12	<0.08	<0.05	8.30	0.26	12.96	<0.05	<0.05	26.47
81	BLD/PBH01/80	82.76	84.00	1.24	0.66	<0.05	0.34	<0.05	3.77	5.39	0.10	<0.05	<0.05	<0.08	<0.05	7.63	0.17	82.82	<0.05	<0.05	2.63
82	BLD/PBH01/81	84.00	85.25	1.25	15.32	<0.05	0.57	<0.05	5.44	7.78	1.28	0.49	<0.05	<0.08	<0.05	2.84	0.98	56.73	<0.05	<0.05	13.77
83	BLD/PBH01/82	85.25	85.78	0.53	8.89	<0.05	7.51	<0.05	2.59	3.70	0.87	0.42	<0.05	<0.08	<0.05	4.88	0.78	62.65	<0.05	<0.05	9.91
84	BLD/PBH01/83	85.78	87.00	1.22	20.20	<0.05	2.22	<0.05	4.79	6.85	2.21	0.99	<0.05	<0.08	<0.05	6.39	1.21	47.28	<0.05	<0.05	12.40
85	BLD/PBH01/84	87.00	88.00	1.00	19.74	<0.05	1.17	<0.05	5.01	7.16	2.09	0.96	<0.05	<0.08	0.05	5.55	1.30	48.28	<0.05	<0.05	13.50

ANNEXURE IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-02

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
1	BLD/PBH02/01	3.00	4.40	1.40	13.07	<0.05	19.67	<0.05	7.22	10.32	1.75	2.50	0.27	<0.08	0.20	1.06	0.73	30.28	<0.05	<0.05	20.13
2	BLD/PBH02/02	4.40	5.00	0.60	4.92	<0.05	35.33	<0.05	8.54	12.20	0.47	2.78	0.63	<0.08	0.19	0.32	0.23	11.10	<0.05	<0.05	31.81
3	BLD/PBH02/03	5.00	6.00	1.00	4.72	<0.05	34.43	<0.05	10.99	15.71	0.42	3.08	0.61	<0.08	0.55	0.53	0.22	8.77	<0.05	<0.05	30.94
4	BLD/PBH02/04	6.00	7.00	1.00	3.81	<0.05	37.99	<0.05	8.79	12.56	0.28	2.75	1.22	<0.08	0.26	2.09	0.16	6.66	<0.05	<0.05	32.20
5	BLD/PBH02/05	7.00	8.00	1.00	2.69	<0.05	41.05	<0.05	7.58	10.84	0.16	2.68	1.24	<0.08	0.21	1.63	0.11	4.75	<0.05	<0.05	34.62
6	BLD/PBH02/06	8.00	9.00	1.00	2.91	<0.05	40.76	<0.05	7.47	10.68	0.14	3.01	1.31	<0.08	0.24	0.58	0.10	4.04	<0.05	<0.05	36.21
7	BLD/PBH02/07	9.00	10.00	1.00	3.26	<0.05	38.47	<0.05	9.95	14.23	0.13	2.96	1.18	<0.08	0.34	1.20	0.12	4.44	<0.05	<0.05	33.63
8	BLD/PBH02/08	10.00	11.00	1.00	4.54	<0.05	36.04	<0.05	9.32	13.33	0.32	3.50	1.21	<0.08	0.35	0.68	0.19	7.10	<0.05	<0.05	32.72
9	BLD/PBH02/09	11.00	12.00	1.00	3.03	<0.05	40.43	<0.05	6.99	10.00	0.21	2.85	0.90	<0.08	0.17	1.47	0.12	6.47	<0.05	<0.05	34.33
10	BLD/PBH02/10	12.00	13.00	1.00	4.24	<0.05	38.36	<0.05	7.96	11.38	0.24	2.75	0.59	<0.08	0.24	3.55	0.14	6.39	<0.05	<0.05	32.08
11	BLD/PBH02/11	13.00	14.00	1.00	2.73	<0.05	45.18	<0.05	4.18	5.98	0.17	1.91	0.47	<0.08	0.13	2.14	0.10	4.20	<0.05	<0.05	36.96
12	BLD/PBH02/12	14.00	15.00	1.00	2.98	<0.05	44.92	<0.05	3.35	4.79	0.19	1.78	0.38	<0.08	0.08	2.63	0.11	4.83	<0.05	<0.05	37.30
13	BLD/PBH02/13	15.00	16.00	1.00	2.12	<0.05	47.08	<0.05	2.49	3.56	0.17	1.49	0.33	<0.08	0.09	3.06	0.09	3.90	<0.05	<0.05	38.08
14	BLD/PBH02/14	16.00	17.00	1.00	2.27	<0.05	47.78	<0.05	2.24	3.21	0.12	1.56	0.31	<0.08	0.07	2.57	0.08	3.53	<0.05	<0.05	38.49
15	BLD/PBH02/15	17.00	18.00	1.00	3.30	<0.05	43.86	<0.05	3.69	5.28	0.19	2.16	0.31	<0.08	0.09	3.13	0.11	5.66	<0.05	<0.05	35.89
16	BLD/PBH02/16	18.00	19.00	1.00	2.96	<0.05	44.90	<0.05	3.56	5.10	0.13	2.06	0.32	<0.08	0.11	2.37	0.10	4.85	<0.05	<0.05	37.08
17	BLD/PBH02/17	19.00	20.00	1.00	2.78	<0.05	43.92	<0.05	4.29	6.13	0.15	2.18	0.35	<0.08	0.13	2.32	0.09	5.43	<0.05	<0.05	36.47
18	BLD/PBH02/18	20.00	21.00	1.00	2.03	<0.05	46.45	<0.05	4.51	6.45	0.09	1.79	0.40	<0.08	0.17	1.32	0.06	3.35	<0.05	<0.05	37.86
19	BLD/PBH02/19	21.00	22.00	1.00	2.70	<0.05	44.04	<0.05	5.68	8.13	0.16	1.92	0.27	<0.08	0.20	1.86	0.10	4.70	<0.05	<0.05	35.90
20	BLD/PBH02/20	22.00	23.00	1.00	3.16	<0.05	39.69	<0.05	10.36	14.81	0.18	2.14	0.18	<0.08	0.35	1.66	0.14	4.96	<0.05	<0.05	32.71
21	BLD/PBH02/21	23.00	24.00	1.00	4.76	<0.05	34.67	0.08	12.98	18.56	0.28	2.64	0.16	<0.08	0.37	1.26	0.18	6.98	<0.05	<0.05	30.06
22	BLD/PBH02/22	24.00	25.00	1.00	4.18	<0.05	37.64	<0.05	10.67	15.25	0.26	2.35	0.15	<0.08	0.34	1.68	0.16	6.15	<0.05	<0.05	31.81
23	BLD/PBH02/23	25.00	26.00	1.00	2.99	<0.05	42.37	<0.05	8.09	11.57	0.18	1.90	0.11	<0.08	0.32	1.29	0.11	4.18	<0.05	<0.05	34.95
24	BLD/PBH02/24	26.00	27.00	1.00	2.28	<0.05	48.38	<0.05	2.00	2.86	0.18	1.41	0.12	<0.08	0.08	1.29	0.11	3.96	<0.05	<0.05	39.32
25	BLD/PBH02/25	27.00	28.00	1.00	3.72	<0.05	43.29	<0.05	4.30	6.15	0.36	1.85	0.10	<0.08	0.16	1.64	0.18	6.63	<0.05	<0.05	35.91
26	BLD/PBH02/26	28.00	29.00	1.00	4.65	<0.05	40.48	<0.05	5.60	8.01	0.44	2.26	0.10	<0.08	0.25	1.21	0.22	7.87	<0.05	<0.05	34.50
27	BLD/PBH02/27	29.00	30.40	1.40	6.11	<0.05	34.81	<0.05	6.73	9.62	0.63	3.43	0.06	<0.08	0.35	1.02	0.30	11.78	<0.05	<0.05	31.86
28	BLD/PBH02/28	30.40	31.62	1.22	5.40	<0.05	37.72	<0.05	6.20	8.86	0.53	2.53	0.06	<0.08	0.31	0.83	0.25	10.76	<0.05	<0.05	32.73
29	BLD/PBH02/29	31.62	33.00	1.38	22.28	<0.05	0.63	<0.05	8.42	12.05	3.03	3.35	<0.05	0.46	0.58	0.94	1.03	47.45	<0.05	<0.05	8.17
30	BLD/PBH02/30	33.00	34.00	1.00	22.24	<0.05	0.98	<0.05	8.46	12.09	2.95	3.37	<0.05	0.37	0.43	1.28	1.04	47.10	<0.05	<0.05	8.12
31	BLD/PBH02/31	34.00	34.70	0.70	21.68	<0.05	0.51	<0.05	9.02	12.90	2.81	3.45	<0.05	0.30	0.12	1.74	1.02	46.92	<0.05	<0.05	8.54
32	BLD/PBH02/32	34.70	36.00	1.30	11.19	<0.05	24.50	<0.05	7.22	10.32	1.36	2.87	<0.05	<0.08	0.19	0.91	0.52	24.33	<0.05	<0.05	23.71

ANNEXURE IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-02

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
33	BLD/PBH02/33	36.00	37.00	1.00	4.66	<0.05	40.59	<0.05	3.98	5.68	0.49	2.35	0.06	<0.08	0.14	1.00	0.21	10.15	<0.05	<0.05	34.64
34	BLD/PBH02/34	37.00	38.00	1.00	4.86	<0.05	41.15	<0.05	2.79	4.00	0.53	2.53	<0.05	<0.08	0.09	0.81	0.21	10.69	<0.05	<0.05	35.06
35	BLD/PBH02/35	38.00	39.00	1.00	3.98	<0.05	42.67	<0.05	2.29	3.28	0.37	2.95	<0.05	<0.08	0.07	1.13	0.15	8.95	<0.05	<0.05	36.40
36	BLD/PBH02/36	39.00	40.00	1.00	2.59	<0.05	46.87	<0.05	1.76	2.52	0.23	2.50	<0.05	<0.08	0.05	0.81	0.10	5.65	<0.05	<0.05	38.61
37	BLD/PBH02/37	40.00	41.00	1.00	2.61	<0.05	45.26	<0.05	2.12	3.04	0.21	3.08	0.11	<0.08	0.07	1.32	0.09	5.20	<0.05	<0.05	38.99
38	BLD/PBH02/38	41.00	42.00	1.00	2.99	<0.05	45.14	<0.05	2.52	3.60	0.25	2.39	0.20	<0.08	0.07	1.78	0.10	5.71	<0.05	<0.05	37.73
39	BLD/PBH02/39	42.00	43.00	1.00	2.26	<0.05	46.60	<0.05	2.49	3.56	0.16	2.21	0.30	<0.08	0.08	2.02	0.08	4.26	<0.05	<0.05	38.45
40	BLD/PBH02/40	43.00	44.00	1.00	2.76	<0.05	45.19	<0.05	3.02	4.32	0.20	2.76	0.29	<0.08	0.10	1.68	0.09	4.61	<0.05	<0.05	37.99
41	BLD/PBH02/41	44.00	45.00	1.00	1.76	<0.05	49.38	<0.05	1.52	2.17	0.13	1.57	0.22	<0.08	0.06	1.31	0.07	3.19	<0.05	<0.05	40.12
42	BLD/PBH02/42	45.00	46.00	1.00	1.81	<0.05	48.63	<0.05	1.71	2.44	0.15	1.67	0.20	<0.08	0.06	1.59	0.08	3.67	<0.05	<0.05	39.69
43	BLD/PBH02/43	46.00	47.00	1.00	2.12	<0.05	48.19	<0.05	1.73	2.48	0.14	1.80	0.15	<0.08	0.06	1.66	0.08	3.63	<0.05	<0.05	39.68
44	BLD/PBH02/44	47.00	48.00	1.00	3.22	<0.05	43.62	<0.05	3.24	4.63	0.31	2.99	0.12	<0.08	0.15	0.74	0.16	6.24	<0.05	<0.05	37.78
45	BLD/PBH02/45	48.00	49.00	1.00	3.71	<0.05	42.36	<0.05	4.21	6.03	0.35	2.91	0.17	<0.08	0.14	0.75	0.17	7.05	<0.05	<0.05	36.36
46	BLD/PBH02/46	49.00	50.00	1.00	3.42	<0.05	42.46	<0.05	4.23	6.05	0.32	3.43	0.06	<0.08	0.30	0.67	0.15	5.98	<0.05	<0.05	37.14
47	BLD/PBH02/47	50.00	51.00	1.00	3.89	<0.05	42.30	<0.05	4.00	5.71	0.36	2.85	<0.05	<0.08	0.24	0.70	0.18	7.03	<0.05	<0.05	36.72
48	BLD/PBH02/48	51.00	52.00	1.00	4.60	<0.05	40.07	<0.05	2.35	3.35	0.50	4.00	<0.05	<0.08	0.08	0.50	0.22	9.74	<0.05	<0.05	36.90
49	BLD/PBH02/49	52.00	53.00	1.00	5.01	<0.05	38.36	<0.05	3.97	5.68	0.53	3.83	<0.05	<0.08	0.16	0.61	0.24	10.27	<0.05	<0.05	35.28
50	BLD/PBH02/50	53.00	54.00	1.00	4.73	<0.05	40.36	<0.05	4.59	6.56	0.44	2.82	<0.05	<0.08	0.20	0.60	0.22	8.90	<0.05	<0.05	35.16
51	BLD/PBH02/51	54.00	55.00	1.00	3.14	<0.05	44.85	<0.05	1.71	2.45	0.29	2.89	<0.05	<0.08	0.09	0.82	0.14	6.45	<0.05	<0.05	38.85
52	BLD/PBH02/52	55.00	56.00	1.00	5.56	<0.05	38.92	<0.05	3.63	5.19	0.52	3.32	<0.05	<0.08	0.15	0.87	0.26	10.45	<0.05	<0.05	34.76
53	BLD/PBH02/53	56.00	57.00	1.00	3.06	<0.05	45.68	<0.05	1.91	2.73	0.27	2.29	<0.05	<0.08	0.12	1.09	0.13	5.52	<0.05	<0.05	39.09
54	BLD/PBH02/54	57.00	58.00	1.00	3.50	<0.05	44.60	<0.05	3.15	4.50	0.26	2.15	<0.05	<0.08	0.15	1.41	0.13	5.72	<0.05	<0.05	37.56
55	BLD/PBH02/55	58.00	59.00	1.00	2.60	<0.05	47.01	<0.05	2.10	3.00	0.19	1.96	<0.05	<0.08	0.10	1.43	0.09	4.85	<0.05	<0.05	38.76
56	BLD/PBH02/56	59.00	60.00	1.00	3.28	<0.05	45.74	<0.05	2.18	3.11	0.22	1.89	<0.05	<0.08	0.10	1.81	0.11	5.64	<0.05	<0.05	38.07
57	BLD/PBH02/57	60.00	61.00	1.00	2.47	<0.05	47.89	<0.05	1.72	2.47	0.17	1.68	<0.05	<0.08	0.12	1.72	0.09	4.37	<0.05	<0.05	38.99
58	BLD/PBH02/58	61.00	62.00	1.00	2.78	<0.05	48.00	<0.05	1.03	1.47	0.23	1.53	<0.05	<0.08	<0.05	0.93	0.12	5.00	<0.05	<0.05	39.87
59	BLD/PBH02/59	62.00	63.00	1.00	3.16	<0.05	46.89	<0.05	1.49	2.13	0.24	1.72	<0.05	<0.08	0.06	1.22	0.13	5.46	<0.05	<0.05	38.96
60	BLD/PBH02/60	63.00	64.00	1.00	3.44	<0.05	46.40	<0.05	1.36	1.95	0.29	1.67	<0.05	<0.08	<0.05	1.32	0.15	6.07	<0.05	<0.05	38.65
61	BLD/PBH02/61	64.00	65.00	1.00	2.94	<0.05	48.09	<0.05	1.16	1.66	0.19	1.62	<0.05	<0.08	<0.05	1.01	0.11	4.84	<0.05	<0.05	39.48
62	BLD/PBH02/62	65.00	66.00	1.00	1.72	<0.05	50.26	<0.05	1.09	1.55	0.10	1.57	<0.05	<0.08	0.06	0.79	0.06	3.13	<0.05	<0.05	40.72
63	BLD/PBH02/63	66.00	67.00	1.00	1.17	<0.05	52.02	<0.05	0.78	1.12	<0.05	1.23	<0.05	<0.08	<0.05	0.50	<0.05	1.84	<0.05	<0.05	41.96
64	BLD/PBH02/64	67.00	68.00	1.00	0.93	<0.05	52.60	<0.05	0.65	0.93	<0.05	1.14	<0.05	<0.08	0.05	0.73	<0.05	1.49	<0.05	<0.05	42.02

ANNEXURE IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-02

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
65	BLD/PBH02/65	68.00	69.00	1.00	1.46	<0.05	51.92	<0.05	0.62	0.88	0.07	1.15	<0.05	<0.08	<0.05	0.65	<0.05	1.86	<0.05	<0.05	41.89
66	BLD/PBH02/66	69.00	70.00	1.00	1.11	<0.05	52.25	<0.05	0.56	0.80	0.09	1.09	<0.05	<0.08	0.05	0.67	<0.05	2.04	<0.05	<0.05	41.83
67	BLD/PBH02/67	70.00	71.00	1.00	1.40	<0.05	52.00	<0.05	0.60	0.86	0.09	1.10	<0.05	<0.08	0.06	0.69	<0.05	1.98	<0.05	<0.05	41.74
68	BLD/PBH02/68	71.00	72.00	1.00	1.91	<0.05	50.59	<0.05	0.80	1.14	0.14	1.29	<0.05	<0.08	<0.05	0.81	0.07	2.94	<0.05	<0.05	41.04
69	BLD/PBH02/69	72.00	73.00	1.00	2.00	<0.05	50.48	0.06	0.72	1.03	0.15	1.24	<0.05	<0.08	<0.05	0.66	0.06	3.01	<0.05	<0.05	41.25
70	BLD/PBH02/70	73.00	74.00	1.00	2.32	<0.05	49.43	<0.05	0.94	1.34	0.18	1.33	<0.05	<0.08	0.06	0.96	0.08	3.72	<0.05	<0.05	40.54
71	BLD/PBH02/71	74.00	75.00	1.00	1.86	<0.05	50.47	<0.05	0.87	1.24	0.14	1.36	<0.05	<0.08	0.06	0.85	0.06	2.88	<0.05	<0.05	41.04
72	BLD/PBH02/72	75.00	76.00	1.00	1.54	<0.05	51.37	<0.05	0.65	0.94	0.13	1.24	<0.05	<0.08	<0.05	0.57	0.05	2.45	<0.05	<0.05	41.64
73	BLD/PBH02/73	76.00	77.00	1.00	2.07	<0.05	50.01	<0.05	0.93	1.33	0.16	1.38	<0.05	<0.08	<0.05	0.80	0.06	3.27	<0.05	<0.05	40.84
74	BLD/PBH02/74	77.00	78.00	1.00	1.60	<0.05	50.85	<0.05	1.04	1.48	0.10	1.33	<0.05	<0.08	0.05	1.02	<0.05	2.36	<0.05	<0.05	41.13
75	BLD/PBH02/75	78.00	79.00	1.00	1.74	<0.05	50.36	<0.05	1.07	1.53	0.14	1.36	<0.05	<0.08	0.06	1.04	0.06	2.92	<0.05	<0.05	40.78
76	BLD/PBH02/76	79.00	80.00	1.00	1.28	<0.05	51.97	<0.05	0.66	0.94	0.11	1.19	<0.05	<0.08	<0.05	0.59	<0.05	2.35	<0.05	<0.05	41.47
77	BLD/PBH02/77	80.00	81.00	1.00	1.10	<0.05	52.19	<0.05	0.64	0.91	0.09	1.19	<0.05	<0.08	<0.05	0.51	<0.05	1.96	<0.05	<0.05	41.94
78	BLD/PBH02/78	81.00	82.00	1.00	1.43	<0.05	51.07	<0.05	0.88	1.27	0.11	1.34	<0.05	<0.08	<0.05	0.72	0.05	2.76	<0.05	<0.05	41.17
79	BLD/PBH02/79	82.00	83.00	1.00	1.45	<0.05	51.60	<0.05	0.60	0.85	0.11	1.21	<0.05	<0.08	<0.05	0.54	<0.05	2.36	<0.05	<0.05	41.77
80	BLD/PBH02/80	83.00	84.00	1.00	1.89	<0.05	50.90	<0.05	0.56	0.80	0.14	1.25	<0.05	<0.08	<0.05	0.44	0.07	2.93	<0.05	<0.05	41.52
81	BLD/PBH02/81	84.00	85.00	1.00	2.23	<0.05	49.64	<0.05	0.94	1.35	0.17	1.45	<0.05	<0.08	<0.05	0.66	0.08	3.95	<0.05	<0.05	40.43
82	BLD/PBH02/82	85.00	86.00	1.00	2.03	<0.05	50.04	<0.05	1.03	1.47	0.15	1.48	<0.05	<0.08	<0.05	0.67	0.06	3.54	<0.05	<0.05	40.48
83	BLD/PBH02/83	86.00	87.00	1.00	2.16	<0.05	49.60	<0.05	1.20	1.72	0.17	1.54	<0.05	<0.08	<0.05	0.68	0.06	3.92	<0.05	<0.05	40.07
84	BLD/PBH02/84	87.00	88.00	1.00	2.50	<0.05	48.57	<0.05	1.31	1.88	0.23	1.59	<0.05	<0.08	<0.05	0.81	0.08	4.67	<0.05	<0.05	39.60
85	BLD/PBH02/85	88.00	89.00	1.00	2.70	<0.05	47.90	<0.05	1.44	2.06	0.20	1.62	<0.05	<0.08	<0.05	1.04	0.08	4.52	<0.05	<0.05	39.81
86	BLD/PBH02/86	89.00	90.00	1.00	2.60	<0.05	47.31	<0.05	1.77	2.53	0.21	1.69	<0.05	<0.08	0.07	1.28	0.10	5.01	<0.05	<0.05	39.18
87	BLD/PBH02/87	90.00	91.00	1.00	2.69	<0.05	47.28	<0.05	1.67	2.39	0.25	1.64	<0.05	<0.08	0.07	1.02	0.11	5.56	<0.05	<0.05	38.98
88	BLD/PBH02/88	91.00	92.00	1.00	3.51	<0.05	45.68	<0.05	1.70	2.43	0.32	1.67	<0.05	<0.08	0.05	1.04	0.15	6.80	<0.05	<0.05	38.34
89	BLD/PBH02/89	92.00	93.00	1.00	3.21	<0.05	46.19	<0.05	2.12	3.03	0.27	1.55	<0.05	<0.08	0.07	1.36	0.13	5.57	<0.05	<0.05	38.59
90	BLD/PBH02/90	93.00	94.00	1.00	3.35	<0.05	45.73	<0.05	2.69	3.84	0.30	1.49	<0.05	<0.08	0.08	1.35	0.15	5.62	<0.05	<0.05	38.07
91	BLD/PBH02/91	94.00	95.00	1.00	3.78	<0.05	45.11	<0.05	2.31	3.31	0.33	1.45	<0.05	<0.08	0.07	1.61	0.17	6.51	<0.05	<0.05	37.65
92	BLD/PBH02/92	95.00	96.00	1.00	3.35	<0.05	45.99	<0.05	1.86	2.65	0.26	1.48	<0.05	<0.08	<0.05	1.30	0.14	6.13	<0.05	<0.05	38.63
93	BLD/PBH02/93	96.00	97.00	1.00	3.62	<0.05	44.86	<0.05	2.32	3.31	0.26	1.70	<0.05	<0.08	0.08	1.35	0.15	7.14	<0.05	<0.05	37.48
94	BLD/PBH02/94	97.00	98.00	1.00	10.49	<0.05	25.79	<0.05	3.54	5.07	1.12	1.68	<0.05	<0.08	0.05	2.68	0.96	26.61	<0.05	<0.05	25.53
95	BLD/PBH02/95	98.00	99.12	1.12	13.12	<0.05	21.55	<0.05	3.85	5.50	1.33	1.65	<0.05	<0.08	<0.05	2.80	1.12	30.44	<0.05	<0.05	22.44
96	BLD/PBH02/96	99.12	100.00	0.88	5.27	<0.05	42.27	<0.05	1.75	2.50	0.47	1.24	<0.05	<0.08	0.08	1.12	0.34	10.53	<0.05	<0.05	36.16

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-03

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
1	BLD/PBH03/01	14.00	15.00	1.00	18.34	<0.05	2.22	<0.05	7.85	11.23	2.68	2.27	0.06	<0.08	0.44	2.13	1.09	48.33	<0.05	<0.05	11.01
2	BLD/PBH03/02	15.00	15.70	0.70	20.13	<0.05	1.51	<0.05	6.79	9.70	3.01	2.37	<0.05	<0.08	0.14	1.42	1.17	50.81	<0.05	<0.05	9.52
3	BLD/PBH03/03	15.70	17.00	1.30	3.99	<0.05	36.05	<0.05	9.43	13.48	0.39	2.26	0.67	<0.08	0.22	0.38	0.20	8.52	0.10	<0.05	33.61
4	BLD/PBH03/04	17.00	18.00	1.00	5.02	<0.05	31.65	<0.05	11.16	15.96	0.53	2.54	1.47	<0.08	0.21	2.61	0.24	10.18	0.07	<0.05	29.33
5	BLD/PBH03/05	18.00	19.00	1.00	2.25	<0.05	40.32	<0.05	8.40	12.02	0.11	2.27	1.38	<0.08	0.17	1.63	0.08	3.55	0.09	<0.05	35.97
6	BLD/PBH03/06	19.00	20.00	1.00	2.18	<0.05	40.91	<0.05	7.61	10.88	0.09	2.62	1.48	<0.08	0.09	1.41	0.07	3.10	0.10	<0.05	36.88
7	BLD/PBH03/07	20.00	21.00	1.00	3.21	<0.05	36.13	<0.05	11.70	16.73	0.14	2.52	1.22	<0.08	0.16	1.09	0.11	4.79	0.08	<0.05	33.61
8	BLD/PBH03/08	21.00	22.00	1.00	4.38	<0.05	33.85	<0.05	11.23	16.06	0.31	2.98	1.21	<0.08	0.17	0.85	0.17	7.11	0.08	0.05	32.64
9	BLD/PBH03/09	22.00	23.00	1.00	2.86	<0.05	39.56	<0.05	7.33	10.48	0.18	2.40	0.91	<0.08	0.11	1.39	0.11	6.66	0.08	<0.05	35.12
10	BLD/PBH03/10	23.00	24.00	1.00	3.59	<0.05	37.85	<0.05	8.32	11.90	0.27	2.35	0.63	<0.08	0.23	3.30	0.15	6.14	0.08	<0.05	33.28
11	BLD/PBH03/11	24.00	25.00	1.00	2.98	<0.05	42.60	<0.05	5.43	7.76	0.21	1.81	0.46	<0.08	0.16	2.31	0.12	5.07	0.08	<0.05	36.32
12	BLD/PBH03/12	25.00	26.00	1.00	2.25	<0.05	46.13	<0.05	3.12	4.47	0.14	1.40	0.45	<0.08	<0.05	2.27	0.08	3.58	0.08	<0.05	39.04
13	BLD/PBH03/13	26.00	27.00	1.00	1.93	<0.05	47.64	<0.05	2.34	3.35	0.13	1.25	0.36	<0.08	<0.05	2.39	0.08	2.91	0.07	<0.05	39.77
14	BLD/PBH03/14	27.00	28.00	1.00	2.62	<0.05	44.82	<0.05	3.38	4.83	0.16	1.53	0.34	<0.08	<0.05	3.08	0.10	4.61	0.07	<0.05	37.71

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-03

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
15	BLD/PBH03/15	28.00	29.00	1.00	2.51	<0.05	44.64	<0.05	3.81	5.45	0.15	1.77	0.38	<0.08	<0.05	2.57	0.10	4.60	0.07	<0.05	37.64
16	BLD/PBH03/16	29.00	30.00	1.00	2.72	<0.05	44.01	<0.05	4.48	6.41	0.12	1.82	0.38	<0.08	<0.05	2.36	0.09	4.44	0.06	<0.05	37.44
17	BLD/PBH03/17	30.00	31.00	1.00	2.71	<0.05	42.73	<0.05	5.47	7.82	0.16	2.01	0.40	<0.08	0.05	2.44	0.10	5.08	0.07	<0.05	36.31
18	BLD/PBH03/18	31.00	32.00	1.00	2.25	<0.05	43.65	<0.05	6.33	9.05	0.11	1.68	0.42	<0.08	0.09	1.45	0.08	3.90	0.06	<0.05	37.14
19	BLD/PBH03/19	32.00	33.00	1.00	2.51	<0.05	43.73	<0.05	5.69	8.13	0.13	1.57	0.29	<0.08	0.09	2.06	0.09	4.16	0.06	<0.05	37.06
20	BLD/PBH03/20	33.00	34.00	1.00	3.38	<0.05	34.96	<0.05	13.84	19.78	0.20	1.97	0.24	<0.08	0.23	1.56	0.13	5.64	0.06	0.05	31.70
21	BLD/PBH03/21	34.00	35.00	1.00	3.91	<0.05	33.86	<0.05	13.81	19.74	0.26	2.16	0.28	<0.08	0.29	1.31	0.16	6.49	0.06	0.05	31.33
22	BLD/PBH03/22	35.00	36.00	1.00	3.58	<0.05	36.60	<0.05	11.63	16.63	0.23	1.95	0.19	<0.08	0.22	1.58	0.14	5.64	0.06	<0.05	33.05
23	BLD/PBH03/23	36.00	37.00	1.00	2.19	<0.05	45.13	<0.05	5.59	7.99	0.15	1.40	0.17	<0.08	0.11	0.93	0.09	3.55	0.07	<0.05	38.12
24	BLD/PBH03/24	37.00	38.00	1.00	2.89	<0.05	45.45	<0.05	3.31	4.74	0.23	1.36	0.10	<0.08	<0.05	1.89	0.13	4.71	0.07	<0.05	38.30
25	BLD/PBH03/25	38.00	39.00	1.00	3.82	<0.05	41.73	<0.05	5.55	7.94	0.37	1.75	0.15	<0.08	0.11	1.40	0.19	6.71	0.08	<0.05	35.63
26	BLD/PBH03/26	39.00	40.00	1.00	5.21	<0.05	37.45	<0.05	6.53	9.34	0.55	2.37	0.11	<0.08	0.18	1.28	0.27	9.44	0.07	<0.05	33.60
27	BLD/PBH03/27	40.00	41.00	1.00	5.46	<0.05	34.14	<0.05	7.78	11.12	0.60	3.10	0.08	<0.08	0.23	0.93	0.29	11.40	0.08	<0.05	32.42
28	BLD/PBH03/28	41.00	42.26	1.26	4.92	<0.05	37.31	<0.05	6.55	9.37	0.50	2.21	0.06	<0.08	0.19	0.78	0.24	10.17	0.08	<0.05	34.03
29	BLD/PBH03/29	42.26	43.00	0.74	17.05	<0.05	1.23	<0.05	14.51	20.74	3.73	2.46	<0.05	0.27	0.14	1.16	1.35	43.03	0.12	<0.05	8.50

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-03

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
30	BLD/PBH03/30	43.00	44.20	1.20	21.64	<0.05	0.74	<0.05	8.04	11.49	3.21	2.96	<0.05	0.54	0.12	1.26	1.03	47.71	<0.05	<0.05	9.13
31	BLD/PBH03/31	44.20	45.50	1.30	21.26	<0.05	0.83	<0.05	8.37	11.97	3.00	3.12	<0.05	0.46	0.12	1.17	1.03	47.77	<0.05	<0.05	9.10
32	BLD/PBH03/32	45.50	46.40	0.90	9.95	<0.05	26.33	<0.05	7.29	10.42	1.24	2.47	0.06	0.09	0.16	1.15	0.46	21.64	0.06	<0.05	25.87
33	BLD/PBH03/33	46.40	47.00	0.60	7.93	<0.05	32.12	<0.05	5.53	7.91	0.99	2.41	<0.05	0.09	0.27	0.85	0.37	17.78	0.08	<0.05	29.09
34	BLD/PBH03/34	47.00	48.00	1.00	5.69	<0.05	37.31	<0.05	4.97	7.10	0.67	2.40	<0.05	<0.08	0.14	1.18	0.26	12.13	0.09	<0.05	32.88
35	BLD/PBH03/35	48.00	49.00	1.00	3.69	<0.05	42.62	<0.05	2.69	3.85	0.36	2.52	<0.05	<0.08	<0.05	1.05	0.15	8.55	0.12	<0.05	36.93
36	BLD/PBH03/36	49.00	50.00	1.00	2.76	<0.05	45.52	<0.05	2.11	3.02	0.25	2.43	<0.05	<0.08	<0.05	0.89	0.11	5.97	0.11	<0.05	38.82
37	BLD/PBH03/37	50.00	51.00	1.00	2.40	<0.05	46.22	<0.05	2.12	3.03	0.21	2.35	0.08	<0.08	<0.05	1.04	0.10	4.98	0.08	<0.05	39.40
38	BLD/PBH03/38	51.00	52.00	1.00	2.65	<0.05	45.04	<0.05	2.85	4.08	0.22	2.44	0.18	<0.08	<0.05	1.68	0.10	4.96	0.10	<0.05	38.42
39	BLD/PBH03/39	52.00	53.00	1.00	1.91	<0.05	47.74	<0.05	2.19	3.13	0.14	1.75	0.26	<0.08	<0.05	1.60	0.07	3.53	0.10	<0.05	39.68
40	BLD/PBH03/40	53.00	54.00	1.00	2.66	<0.05	43.47	<0.05	3.79	5.42	0.23	2.69	0.34	<0.08	0.07	2.28	0.11	5.25	0.09	<0.05	37.29
41	BLD/PBH03/41	54.00	55.00	1.00	2.42	<0.05	45.89	<0.05	3.09	4.41	0.18	1.92	0.23	<0.08	<0.05	1.82	0.09	4.21	0.08	<0.05	38.60
42	BLD/PBH03/42	55.00	56.00	1.00	1.62	<0.05	49.34	<0.05	1.68	2.40	0.12	1.35	0.24	<0.08	<0.05	1.40	0.06	2.92	0.08	<0.05	40.36
43	BLD/PBH03/43	56.00	57.00	1.00	2.05	<0.05	48.08	<0.05	2.15	3.07	0.14	1.49	0.16	<0.08	<0.05	1.74	0.07	3.57	0.08	<0.05	39.46
44	BLD/PBH03/44	57.00	58.00	1.00	2.35	<0.05	46.82	<0.05	2.09	2.99	0.20	1.93	0.16	<0.08	<0.05	1.25	0.11	4.45	0.08	<0.05	39.54

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-03

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
45	BLD/PBH03/45	58.00	59.00	1.00	3.56	<0.05	41.87	<0.05	4.87	6.96	0.37	2.64	0.16	<0.08	0.09	0.60	0.18	7.00	0.09	<0.05	36.36
46	BLD/PBH03/46	59.00	60.00	1.00	3.51	<0.05	41.84	<0.05	4.77	6.82	0.35	2.88	0.08	<0.08	0.10	0.73	0.17	6.62	0.11	<0.05	36.69
47	BLD/PBH03/47	60.00	61.00	1.00	3.88	<0.05	40.96	<0.05	4.82	6.89	0.41	2.98	0.12	<0.08	0.07	0.77	0.19	7.61	0.11	<0.05	35.90
48	BLD/PBH03/48	61.00	62.00	1.00	3.32	<0.05	43.14	<0.05	3.65	5.22	0.32	2.63	<0.05	<0.08	<0.05	0.57	0.16	6.39	0.12	<0.05	37.95
49	BLD/PBH03/49	62.00	63.00	1.00	4.44	<0.05	39.91	<0.05	2.69	3.84	0.55	3.84	<0.05	<0.08	<0.05	0.55	0.23	9.93	0.12	<0.05	36.43
50	BLD/PBH03/50	63.00	64.00	1.00	5.15	<0.05	35.57	<0.05	6.07	8.69	0.58	3.87	<0.05	<0.08	0.13	0.54	0.26	10.87	0.10	<0.05	34.12
51	BLD/PBH03/51	64.00	65.00	1.00	3.68	<0.05	42.83	<0.05	3.76	5.38	0.35	2.18	<0.05	<0.08	0.12	0.58	0.18	7.02	0.11	<0.05	37.45
52	BLD/PBH03/52	65.00	66.00	1.00	3.45	<0.05	43.59	<0.05	2.21	3.16	0.35	2.54	<0.05	<0.08	<0.05	0.94	0.17	7.12	0.10	<0.05	38.45
53	BLD/PBH03/53	66.00	67.00	1.00	3.92	<0.05	41.76	<0.05	3.62	5.17	0.36	2.85	<0.05	<0.08	0.10	0.92	0.19	7.25	0.11	<0.05	37.26
54	BLD/PBH03/54	67.00	68.00	1.00	2.68	<0.05	46.74	<0.05	2.04	2.91	0.23	1.76	<0.05	<0.08	<0.05	1.12	0.12	4.71	0.09	<0.05	39.49
55	BLD/PBH03/55	68.00	69.00	1.00	3.14	<0.05	43.84	<0.05	3.82	5.47	0.26	2.09	<0.05	<0.08	0.10	1.34	0.13	5.63	0.09	<0.05	37.81
56	BLD/PBH03/56	69.00	70.00	1.00	3.26	<0.05	44.29	<0.05	2.80	4.00	0.25	1.90	<0.05	<0.08	<0.05	1.91	0.13	6.04	0.08	<0.05	37.98
57	BLD/PBH03/57	70.00	71.00	1.00	2.85	<0.05	45.37	<0.05	2.73	3.90	0.21	1.69	<0.05	<0.08	<0.05	2.13	0.11	5.39	0.07	<0.05	38.12
58	BLD/PBH03/58	71.00	72.00	1.00	1.94	<0.05	48.45	<0.05	1.74	2.49	0.16	1.40	<0.05	<0.08	<0.05	1.44	0.10	3.97	0.09	<0.05	39.82
59	BLD/PBH03/59	72.00	73.00	1.00	2.92	<0.05	46.96	<0.05	1.57	2.24	0.23	1.42	<0.05	<0.08	<0.05	1.62	0.13	5.18	0.07	<0.05	39.12

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-03

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
60	BLD/PBH03/60	73.00	74.00	1.00	2.96	<0.05	46.35	<0.05	1.93	2.75	0.26	1.57	<0.05	<0.08	<0.05	1.38	0.14	5.52	0.09	<0.05	38.85
61	BLD/PBH03/61	74.00	75.00	1.00	2.71	<0.05	47.84	<0.05	1.28	1.83	0.23	1.35	<0.05	<0.08	<0.05	1.13	0.13	4.66	0.09	<0.05	39.93
62	BLD/PBH03/62	75.00	76.00	1.00	2.57	<0.05	48.04	<0.05	1.37	1.95	0.19	1.46	<0.05	<0.08	<0.05	0.83	0.11	4.60	0.07	<0.05	40.05
63	BLD/PBH03/63	76.00	77.00	1.00	1.92	<0.05	49.46	<0.05	1.40	2.00	0.11	1.44	<0.05	<0.08	<0.05	0.83	0.07	3.26	0.09	<0.05	40.72
64	BLD/PBH03/64	77.00	78.00	1.00	1.49	<0.05	50.75	<0.05	1.16	1.66	0.07	1.26	<0.05	<0.08	<0.05	0.65	<0.05	2.41	0.06	<0.05	41.51
65	BLD/PBH03/65	78.00	79.00	1.00	1.36	<0.05	50.98	<0.05	1.05	1.50	0.08	1.12	<0.05	<0.08	<0.05	1.01	<0.05	2.16	0.06	<0.05	41.60
66	BLD/PBH03/66	79.00	80.00	1.00	1.04	<0.05	52.27	<0.05	0.70	1.00	0.06	0.89	<0.05	<0.08	<0.05	0.71	<0.05	1.49	<0.05	<0.05	42.36
67	BLD/PBH03/67	80.00	81.00	1.00	1.42	<0.05	51.64	<0.05	0.66	0.94	0.08	0.96	<0.05	<0.08	<0.05	0.57	<0.05	1.97	<0.05	<0.05	42.22
68	BLD/PBH03/68	81.00	82.00	1.00	1.14	<0.05	52.11	<0.05	0.69	0.99	0.07	0.91	<0.05	<0.08	<0.05	0.58	<0.05	1.75	0.05	<0.05	42.24
69	BLD/PBH03/69	82.00	83.00	1.00	1.59	<0.05	50.81	<0.05	0.96	1.37	0.12	1.08	<0.05	<0.08	<0.05	0.79	0.06	2.56	0.05	<0.05	41.43
70	BLD/PBH03/70	83.00	84.00	1.00	1.82	<0.05	50.88	<0.05	0.80	1.14	0.13	1.07	<0.05	<0.08	<0.05	0.66	0.06	2.64	<0.05	<0.05	41.45
71	BLD/PBH03/71	84.00	85.00	1.00	2.39	<0.05	49.06	<0.05	1.14	1.62	0.20	1.20	<0.05	<0.08	<0.05	1.01	0.08	3.67	<0.05	<0.05	40.62
72	BLD/PBH03/72	85.00	86.00	1.00	1.82	<0.05	49.80	<0.05	1.21	1.73	0.14	1.21	<0.05	<0.08	<0.05	1.09	0.06	2.99	0.05	<0.05	40.99
73	BLD/PBH03/73	86.00	87.00	1.00	1.83	<0.05	50.75	<0.05	0.80	1.14	0.13	1.11	<0.05	<0.08	<0.05	0.61	0.06	2.37	<0.05	<0.05	41.85
74	BLD/PBH03/74	87.00	88.00	1.00	1.76	<0.05	50.30	<0.05	1.03	1.48	0.15	1.17	<0.05	<0.08	<0.05	0.75	0.06	2.92	0.06	<0.05	41.24

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-03

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
75	BLD/PBH03/75	88.00	89.00	1.00	1.48	<0.05	50.69	<0.05	1.22	1.74	0.10	1.15	<0.05	<0.08	<0.05	1.03	<0.05	2.32	0.05	<0.05	41.28
76	BLD/PBH03/76	89.00	90.00	1.00	1.85	<0.05	49.67	<0.05	1.38	1.97	0.14	1.24	<0.05	<0.08	<0.05	1.05	0.05	2.93	0.05	<0.05	40.92
77	BLD/PBH03/77	90.00	91.00	1.00	1.55	<0.05	50.78	<0.05	0.97	1.39	0.12	1.12	<0.05	<0.08	<0.05	0.77	0.05	2.49	0.06	<0.05	41.54
78	BLD/PBH03/78	91.00	92.00	1.00	1.22	<0.05	51.87	<0.05	0.69	0.98	0.08	1.05	<0.05	<0.08	<0.05	0.44	<0.05	1.86	0.06	<0.05	42.30
79	BLD/PBH03/79	92.00	93.00	1.00	1.76	<0.05	50.24	<0.05	1.16	1.66	0.12	1.23	<0.05	<0.08	<0.05	0.76	0.06	2.88	0.05	<0.05	41.12
80	BLD/PBH03/80	93.00	94.00	1.00	1.46	<0.05	51.10	<0.05	0.91	1.30	0.11	1.11	<0.05	<0.08	<0.05	0.60	<0.05	2.40	0.06	<0.05	41.70
81	BLD/PBH03/81	94.00	95.00	1.00	1.38	0.05	51.59	<0.05	0.63	0.91	0.10	1.03	<0.05	<0.08	<0.05	0.49	<0.05	2.04	0.06	<0.05	42.21
82	BLD/PBH03/82	95.00	96.00	1.00	2.45	<0.05	49.26	<0.05	1.02	1.45	0.18	1.22	<0.05	<0.08	<0.05	0.78	0.09	3.87	0.06	<0.05	40.54
83	BLD/PBH03/83	96.00	97.00	1.00	1.88	<0.05	49.70	<0.05	1.17	1.68	0.15	1.30	<0.05	<0.08	<0.05	0.68	0.06	3.36	0.05	<0.05	41.03
84	BLD/PBH03/84	97.00	98.00	1.00	2.06	<0.05	48.98	<0.05	1.29	1.84	0.17	1.32	<0.05	<0.08	<0.05	0.68	0.07	3.95	0.05	<0.05	40.75
85	BLD/PBH03/85	98.00	99.00	1.00	2.20	<0.05	49.13	<0.05	1.39	1.99	0.18	1.33	<0.05	<0.08	<0.05	0.68	0.07	3.72	0.05	<0.05	40.54
86	BLD/PBH03/86	99.00	100.00	1.00	2.71	<0.05	47.52	<0.05	1.69	2.42	0.25	1.46	<0.05	<0.08	<0.05	0.97	0.10	4.80	0.06	<0.05	39.58

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-04

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
3	BLD/PBH04/01	8.00	9.22	1.22	13.84	<0.05	15.17	<0.05	9.77	13.97	1.95	1.56	0.21	<0.08	0.33	0.51	0.77	32.85	<0.05	<0.05	18.64
4	BLD/PBH04/02	9.22	10.00	0.78	3.69	<0.05	35.97	<0.05	12.09	17.29	0.32	1.06	0.48	<0.08	0.33	0.22	0.18	7.47	0.09	<0.05	32.76
5	BLD/PBH04/03	10.00	11.00	1.00	5.56	<0.05	31.47	<0.05	10.86	15.53	0.53	1.83	0.71	<0.08	0.22	0.74	0.29	13.15	0.09	<0.05	29.72
6	BLD/PBH04/04	11.00	12.00	1.00	19.77	<0.05	1.25	<0.05	6.53	9.34	2.93	2.09	<0.05	<0.08	0.13	1.14	1.18	52.59	<0.05	<0.05	9.36
7	BLD/PBH04/05	12.00	13.00	1.00	19.57	<0.05	2.08	<0.05	7.00	10.01	2.85	2.21	<0.05	<0.08	0.15	0.91	1.15	50.87	<0.05	<0.05	9.95
8	BLD/PBH04/06	13.00	14.28	1.28	12.92	<0.05	18.60	<0.05	7.58	10.84	1.79	2.11	0.26	<0.08	0.23	1.34	0.72	30.87	<0.05	<0.05	20.10
9	BLD/PBH04/07	14.28	15.00	0.72	20.44	<0.05	2.61	<0.05	6.74	9.64	3.20	2.45	<0.05	<0.08	0.12	1.27	1.14	48.52	<0.05	<0.05	10.40
10	BLD/PBH04/08	15.00	15.80	0.80	20.79	<0.05	1.78	<0.05	7.59	10.85	3.20	2.61	<0.05	<0.08	0.12	1.33	1.13	48.15	<0.05	<0.05	9.84
11	BLD/PBH04/09	15.80	17.00	1.20	4.91	<0.05	32.71	<0.05	11.54	16.50	0.48	2.36	0.66	<0.08	0.30	0.66	0.25	10.32	0.10	<0.05	30.61
13	BLD/PBH04/10	17.00	18.00	1.00	2.81	<0.05	39.24	<0.05	8.06	11.52	0.16	2.39	1.43	<0.08	0.09	3.57	0.11	4.40	0.09	<0.05	33.86
14	BLD/PBH04/11	18.00	19.00	1.00	1.59	<0.05	42.71	<0.05	6.91	9.88	0.06	2.44	1.39	<0.08	0.14	0.45	0.06	2.34	0.10	<0.05	38.70
15	BLD/PBH04/12	19.00	20.00	1.00	1.89	<0.05	40.66	<0.05	8.60	12.29	0.06	3.01	1.44	<0.08	0.14	0.11	0.06	2.27	0.10	<0.05	37.84
16	BLD/PBH04/13	20.00	21.00	1.00	2.34	<0.05	40.18	<0.05	9.17	13.11	0.11	2.58	1.21	<0.08	0.08	0.21	0.09	3.17	0.10	<0.05	36.67
17	BLD/PBH04/14	21.00	22.03	1.03	3.31	<0.05	39.16	<0.05	7.61	10.89	0.24	2.22	0.92	<0.08	0.17	0.79	0.14	7.41	0.09	<0.05	34.53
18	BLD/PBH04/15	22.03	22.53	0.50	10.72	<0.05	21.13	<0.05	9.40	13.44	1.46	3.00	0.39	<0.08	0.10	2.97	0.56	23.54	<0.05	<0.05	22.48
19	BLD/PBH04/16	22.53	24.00	1.47	3.65	<0.05	39.57	<0.05	7.28	10.41	0.23	2.13	0.60	<0.08	0.15	3.45	0.14	5.85	0.08	<0.05	33.60
20	BLD/PBH04/17	24.00	25.00	1.00	2.79	<0.05	44.32	<0.05	4.09	5.84	0.20	1.61	0.48	<0.08	0.05	2.37	0.12	4.69	0.08	<0.05	37.36
21	BLD/PBH04/18	25.00	26.00	1.00	2.06	<0.05	46.57	<0.05	3.07	4.39	0.17	1.31	0.42	<0.08	0.06	2.82	0.09	3.92	0.10	<0.05	37.99
22	BLD/PBH04/19	26.00	27.00	1.00	2.19	<0.05	47.28	<0.05	2.62	3.74	0.14	1.24	0.32	<0.08	<0.05	3.15	0.09	3.39	0.07	<0.05	38.28
23	BLD/PBH04/20	27.00	28.00	1.00	2.18	<0.05	46.18	<0.05	3.26	4.66	0.13	1.57	0.32	<0.08	<0.05	2.80	0.09	4.09	0.07	<0.05	37.69
25	BLD/PBH04/21	28.00	29.00	1.00	3.38	<0.05	42.83	<0.05	4.12	5.89	0.24	1.86	0.33	<0.08	<0.05	2.85	0.14	6.43	0.07	<0.05	35.83
26	BLD/PBH04/22	29.00	30.00	1.00	2.53	<0.05	44.04	<0.05	4.81	6.88	0.14	1.90	0.36	<0.08	<0.05	2.81	0.10	4.79	0.07	<0.05	36.22
27	BLD/PBH04/23	30.00	31.00	1.00	2.72	<0.05	44.21	<0.05	5.15	7.36	0.13	1.90	0.39	<0.08	0.06	1.95	0.09	4.66	0.06	<0.05	36.36
28	BLD/PBH04/24	31.00	32.00	1.00	2.58	<0.05	42.52	<0.05	7.48	10.69	0.13	1.73	0.37	<0.08	0.12	1.78	0.09	4.50	0.06	<0.05	35.29
29	BLD/PBH04/25	32.00	33.00	1.00	2.39	<0.05	43.24	<0.05	6.61	9.46	0.13	1.55	0.26	<0.08	0.10	2.00	0.09	4.03	0.06	<0.05	36.57
30	BLD/PBH04/26	33.00	34.00	1.00	4.10	<0.05	32.11	<0.05	15.63	22.35	0.25	2.17	0.21	<0.08	0.29	1.22	0.17	6.66	0.06	0.06	30.23
31	BLD/PBH04/27	34.00	35.00	1.00	3.61	<0.05	35.81	<0.05	12.37	17.68	0.25	2.06	0.25	<0.08	0.25	1.39	0.16	6.12	0.07	0.05	32.18
32	BLD/PBH04/28	35.00	36.00	1.00	3.36	<0.05	36.92	<0.05	11.48	16.41	0.23	1.89	0.22	<0.08	0.22	1.76	0.15	5.64	0.07	<0.05	32.99
33	BLD/PBH04/29	36.00	37.00	1.00	2.14	<0.05	47.12	<0.05	3.46	4.94	0.17	1.24	0.14	<0.08	0.05	1.11	0.11	3.71	0.07	<0.05	39.10
34	BLD/PBH04/30	37.00	38.00	1.00	3.02	<0.05	43.88	<0.05	4.79	6.85	0.27	1.56	0.12	<0.08	0.08	1.69	0.15	5.34	0.08	<0.05	36.76
36	BLD/PBH04/31	38.00	39.00	1.00	4.11	<0.05	40.81	<0.05	5.72	8.18	0.43	1.82	0.13	<0.08	0.12	1.41	0.22	7.52	0.08	<0.05	35.03
37	BLD/PBH04/32	39.00	40.00	1.00	5.12	<0.05	36.89	<0.05	6.81	9.74	0.55	2.45	0.12	<0.08	0.18	1.07	0.27	9.62	0.08	<0.05	33.76
38	BLD/PBH04/33	40.00	41.00	1.00	5.54	<0.05	34.00	<0.05	7.55	10.80	0.59	3.19	0.08	<0.08	0.26	1.08	0.27	11.61	0.07	<0.05	32.36

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-04

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
39	BLD/PBH04/34	41.00	42.00	1.00	5.12	<0.05	37.17	<0.05	6.67	9.53	0.52	2.20	0.07	<0.08	0.20	0.97	0.25	10.38	0.08	<0.05	33.37
40	BLD/PBH04/35	42.00	43.50	1.50	21.27	<0.05	0.83	<0.05	8.41	12.02	3.13	3.09	<0.05	0.56	0.14	1.31	1.01	47.55	<0.05	<0.05	8.93
41	BLD/PBH04/36	43.50	45.00	1.50	21.25	<0.05	0.73	<0.05	8.33	11.91	3.06	3.07	<0.05	0.49	0.13	1.27	1.03	47.84	<0.05	<0.05	9.06
42	BLD/PBH04/37	45.00	46.00	1.00	9.91	<0.05	25.88	<0.05	7.35	10.51	1.30	2.57	<0.05	0.12	0.12	0.93	0.48	22.51	0.07	<0.05	25.49
43	BLD/PBH04/38	46.00	47.00	1.00	6.44	<0.05	34.84	<0.05	5.25	7.50	0.81	2.37	0.07	0.09	0.12	1.10	0.31	14.78	0.09	<0.05	31.40
44	BLD/PBH04/39	47.00	48.00	1.00	4.51	<0.05	40.64	<0.05	3.56	5.09	0.51	2.35	<0.05	<0.08	0.08	1.04	0.20	9.95	0.10	<0.05	35.37
45	BLD/PBH04/40	48.00	49.00	1.00	3.35	<0.05	42.93	<0.05	2.70	3.86	0.34	2.53	<0.05	<0.08	<0.05	1.35	0.14	8.03	0.12	<0.05	37.20
48	BLD/PBH04/41	49.00	50.00	1.00	2.38	<0.05	46.57	<0.05	2.06	2.94	0.22	2.14	<0.05	<0.08	<0.05	0.91	0.09	5.09	0.10	<0.05	39.42
49	BLD/PBH04/42	50.00	51.00	1.00	2.50	<0.05	45.07	<0.05	2.64	3.78	0.21	2.55	0.10	<0.08	<0.05	1.78	0.10	4.94	0.08	<0.05	38.75
50	BLD/PBH04/43	51.00	52.00	1.00	2.07	<0.05	47.49	<0.05	2.18	3.11	0.16	1.92	0.22	<0.08	<0.05	1.21	0.08	3.78	0.10	<0.05	39.75
51	BLD/PBH04/44	52.00	53.00	1.00	1.89	<0.05	47.08	<0.05	2.43	3.47	0.15	2.05	0.28	<0.08	<0.05	1.56	0.07	3.71	0.10	<0.05	39.52
52	BLD/PBH04/45	53.00	54.00	1.00	2.64	<0.05	43.06	<0.05	4.03	5.76	0.24	2.90	0.30	<0.08	<0.05	2.03	0.11	5.28	0.09	<0.05	37.43
53	BLD/PBH04/46	54.00	55.00	1.00	1.78	<0.05	47.84	<0.05	2.35	3.36	0.14	1.58	0.24	<0.08	<0.05	1.77	0.07	3.44	0.09	<0.05	39.56
54	BLD/PBH04/47	55.00	56.00	1.00	1.55	<0.05	49.20	<0.05	1.89	2.70	0.12	1.32	0.20	<0.08	<0.05	1.66	0.07	3.08	0.08	<0.05	39.93
55	BLD/PBH04/48	56.00	57.00	1.00	2.03	<0.05	47.33	<0.05	2.34	3.35	0.18	1.74	0.16	<0.08	<0.05	1.63	0.09	4.09	0.08	<0.05	39.20
56	BLD/PBH04/49	57.00	58.00	1.00	3.29	<0.05	43.23	<0.05	4.13	5.90	0.30	2.57	0.12	<0.08	0.09	0.73	0.16	5.75	0.08	<0.05	37.68
58	BLD/PBH04/50	58.00	59.00	1.00	3.20	<0.05	43.08	<0.05	3.65	5.22	0.33	2.90	0.12	<0.08	0.06	0.75	0.16	6.09	0.11	<0.05	37.78
59	BLD/PBH04/51	59.00	60.00	1.00	3.13	<0.05	42.01	<0.05	5.35	7.65	0.31	2.72	0.05	<0.08	0.10	0.55	0.15	5.95	0.11	<0.05	37.15
60	BLD/PBH04/52	60.00	61.00	1.00	3.25	<0.05	42.93	<0.05	4.23	6.04	0.33	2.73	<0.05	<0.08	0.06	0.60	0.17	6.26	0.12	<0.05	37.38
61	BLD/PBH04/53	61.00	62.00	1.00	5.58	<0.05	37.30	<0.05	2.68	3.83	0.67	4.11	<0.05	<0.08	<0.05	0.58	0.28	11.78	0.11	<0.05	35.62
62	BLD/PBH04/54	62.00	63.00	1.00	5.02	<0.05	36.00	<0.05	5.88	8.40	0.57	3.95	<0.05	<0.08	0.11	0.51	0.25	10.61	0.10	<0.05	34.37
63	BLD/PBH04/55	63.00	64.00	1.00	3.88	<0.05	42.60	<0.05	4.01	5.73	0.36	2.24	<0.05	<0.08	0.06	0.69	0.19	7.33	0.10	<0.05	36.71
64	BLD/PBH04/56	64.00	65.00	1.00	3.05	<0.05	44.53	<0.05	1.96	2.80	0.31	2.60	<0.05	<0.08	<0.05	0.89	0.16	6.54	0.10	<0.05	38.89
65	BLD/PBH04/57	65.00	66.00	1.00	3.82	<0.05	41.95	<0.05	3.50	5.00	0.37	2.70	<0.05	<0.08	0.08	0.85	0.19	7.34	0.11	<0.05	37.48
66	BLD/PBH04/58	66.00	67.00	1.00	2.83	<0.05	46.52	<0.05	2.11	3.02	0.26	1.73	<0.05	<0.08	<0.05	1.48	0.13	5.04	0.08	<0.05	38.77
67	BLD/PBH04/59	67.00	68.00	1.00	3.13	<0.05	44.35	<0.05	3.84	5.48	0.26	2.02	<0.05	<0.08	0.09	1.44	0.13	5.68	0.09	<0.05	37.20
68	BLD/PBH04/60	68.00	69.00	1.00	3.01	<0.05	45.23	<0.05	2.85	4.08	0.24	1.76	<0.05	<0.08	<0.05	1.96	0.12	5.85	0.07	<0.05	37.42
70	BLD/PBH04/61	69.00	70.00	1.00	2.62	<0.05	46.52	<0.05	2.69	3.85	0.19	1.69	<0.05	<0.08	0.07	2.13	0.11	5.02	0.08	<0.05	37.61
71	BLD/PBH04/62	70.00	71.00	1.00	2.34	<0.05	48.76	<0.05	1.53	2.19	0.17	1.34	<0.05	<0.08	<0.05	1.33	0.10	3.87	0.07	<0.05	39.71
72	BLD/PBH04/63	71.00	72.00	1.00	2.29	<0.05	49.31	<0.05	1.08	1.55	0.21	1.26	<0.05	<0.08	<0.05	0.83	0.11	4.38	0.08	<0.05	39.87
73	BLD/PBH04/64	72.00	73.00	1.00	3.09	<0.05	46.69	<0.05	1.94	2.78	0.26	1.54	<0.05	<0.08	<0.05	1.25	0.14	5.83	0.09	<0.05	38.18
74	BLD/PBH04/65	73.00	74.00	1.00	3.30	<0.05	46.57	<0.05	1.76	2.51	0.30	1.46	<0.05	<0.08	<0.05	1.49	0.16	6.29	0.11	<0.05	37.69
75	BLD/PBH04/66	74.00	75.00	1.00	2.66	<0.05	48.57	<0.05	1.32	1.89	0.22	1.43	<0.05	<0.08	<0.05	0.87	0.12	5.00	0.07	<0.05	39.05

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-04

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
76	BLD/PBH04/67	75.00	76.00	1.00	1.98	<0.05	50.06	<0.05	1.38	1.98	0.14	1.45	<0.05	<0.08	<0.05	0.85	0.08	3.63	0.09	<0.05	39.63
77	BLD/PBH04/68	76.00	77.00	1.00	1.55	<0.05	51.61	<0.05	1.03	1.48	0.08	1.20	<0.05	<0.08	<0.05	0.85	<0.05	2.32	0.07	<0.05	40.68
78	BLD/PBH04/69	77.00	78.00	1.00	1.28	<0.05	52.57	<0.05	0.79	1.12	0.06	1.05	<0.05	<0.08	<0.05	0.79	<0.05	1.77	0.06	<0.05	41.13
80	BLD/PBH04/70	78.00	79.00	1.00	1.36	<0.05	52.72	<0.05	0.66	0.94	0.07	1.03	<0.05	<0.08	<0.05	0.56	<0.05	1.75	<0.05	<0.05	41.37
81	BLD/PBH04/71	79.00	80.00	1.00	1.48	<0.05	52.29	<0.05	0.71	1.01	0.09	1.05	<0.05	<0.08	<0.05	0.61	<0.05	2.15	0.05	<0.05	41.10
82	BLD/PBH04/72	80.00	81.00	1.00	1.59	<0.05	51.97	<0.05	0.85	1.21	0.09	1.06	<0.05	<0.08	<0.05	0.82	0.05	2.20	0.05	<0.05	40.84
83	BLD/PBH04/73	81.00	82.00	1.00	1.78	<0.05	50.28	<0.05	0.95	1.36	0.14	1.15	<0.05	<0.08	<0.05	0.81	0.07	2.91	0.06	<0.05	41.34
84	BLD/PBH04/74	82.00	83.00	1.00	1.76	<0.05	50.61	<0.05	0.82	1.18	0.14	1.07	<0.05	<0.08	<0.05	0.68	0.07	2.81	0.06	<0.05	41.53
85	BLD/PBH04/75	83.00	84.00	1.00	2.07	<0.05	48.95	<0.05	1.30	1.87	0.18	1.24	<0.05	<0.08	<0.05	1.26	0.08	3.70	0.06	<0.05	40.48
86	BLD/PBH04/76	84.00	85.00	1.00	1.54	<0.05	50.90	<0.05	0.93	1.33	0.12	1.15	<0.05	<0.08	<0.05	0.75	0.05	2.51	0.06	<0.05	41.49
87	BLD/PBH04/77	85.00	86.00	1.00	1.69	<0.05	50.67	<0.05	0.81	1.16	0.17	1.11	<0.05	<0.08	<0.05	0.60	0.07	2.83	0.06	<0.05	41.51
88	BLD/PBH04/78	86.00	87.00	1.00	1.91	<0.05	50.23	<0.05	1.00	1.43	0.15	1.19	<0.05	<0.08	<0.05	0.76	0.06	2.85	0.05	<0.05	41.25
89	BLD/PBH04/79	87.00	88.00	1.00	1.56	<0.05	50.86	<0.05	1.15	1.64	0.10	1.15	<0.05	<0.08	<0.05	0.90	<0.05	2.21	0.05	<0.05	41.39
90	BLD/PBH04/80	88.00	89.00	1.00	1.54	<0.05	50.75	<0.05	1.04	1.48	0.12	1.13	<0.05	<0.08	<0.05	0.90	0.05	2.44	0.05	<0.05	41.43
92	BLD/PBH04/81	89.00	90.00	1.00	1.17	<0.05	52.10	<0.05	0.57	0.82	0.08	1.01	<0.05	<0.08	<0.05	0.41	<0.05	1.67	0.06	<0.05	42.54
93	BLD/PBH04/82	90.00	91.00	1.00	1.29	<0.05	51.41	<0.05	0.86	1.22	0.09	1.10	<0.05	<0.08	<0.05	0.57	<0.05	2.18	0.06	<0.05	41.92
94	BLD/PBH04/83	91.00	92.00	1.00	1.55	<0.05	50.44	<0.05	1.17	1.67	0.11	1.20	<0.05	<0.08	<0.05	0.85	0.05	2.72	0.06	<0.05	41.23
95	BLD/PBH04/84	92.00	93.00	1.00	1.20	<0.05	51.59	<0.05	0.74	1.06	0.09	1.07	<0.05	<0.08	<0.05	0.58	<0.05	2.10	0.06	<0.05	42.09
96	BLD/PBH04/85	93.00	94.00	1.00	2.01	<0.05	50.09	<0.05	0.82	1.17	0.17	1.15	<0.05	<0.08	<0.05	0.59	0.08	3.59	0.07	<0.05	40.97
97	BLD/PBH04/86	94.00	95.00	1.00	1.74	<0.05	49.99	<0.05	1.22	1.75	0.15	1.27	<0.05	<0.08	<0.05	0.74	0.07	3.41	0.06	<0.05	40.70
98	BLD/PBH04/87	95.00	96.00	1.00	1.81	<0.05	49.83	<0.05	1.28	1.83	0.14	1.29	<0.05	<0.08	<0.05	0.66	0.06	3.30	0.06	<0.05	40.91
99	BLD/PBH04/88	96.00	97.00	1.00	2.05	<0.05	49.41	<0.05	1.40	2.00	0.16	1.32	<0.05	<0.08	<0.05	0.76	0.06	3.38	0.06	<0.05	40.70
100	BLD/PBH04/89	97.00	98.00	1.00	2.31	<0.05	49.09	<0.05	1.34	1.91	0.20	1.30	<0.05	<0.08	<0.05	0.71	0.08	3.86	0.06	<0.05	40.36
101	BLD/PBH04/90	98.00	99.00	1.00	2.67	<0.05	47.37	<0.05	1.91	2.73	0.23	1.46	<0.05	<0.08	<0.05	1.37	0.10	4.86	0.08	<0.05	39.01
103	BLD/PBH04/91	99.00	100.00	1.00	2.68	<0.05	46.76	<0.05	2.12	3.03	0.26	1.51	<0.05	<0.08	<0.05	1.39	0.11	5.41	0.09	<0.05	38.63

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-05

S.No.	Sample No	From	To	Thickness	Al2O3	BaO	CaO	Cr2O3	Fe (T)	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	TiO2	SiO2	SrO	V2O5	LOI
2	BLD/PBH05/01	5.50	6.57	1.07	19.65	<0.05	4.81	<0.05	8.15	11.65	2.68	2.51	<0.05	<0.08	0.58	0.91	1.08	44.87	<0.05	<0.05	11.20
3	BLD/PBH05/02	6.57	7.40	0.83	4.64	<0.05	36.18	<0.05	10.97	15.68	0.39	1.77	0.40	<0.08	0.68	0.23	0.21	7.87	<0.05	<0.05	31.92
4	BLD/PBH05/03	7.40	8.08	0.68	3.32	<0.05	37.48	<0.05	11.05	15.80	0.21	1.82	0.64	<0.08	0.63	0.46	0.15	6.82	<0.05	<0.05	32.66
5	BLD/PBH05/04	8.08	9.46	1.38	21.14	<0.05	0.55	<0.05	7.08	10.13	2.85	2.49	<0.05	<0.08	0.11	0.87	1.22	52.43	<0.05	<0.05	8.20
6	BLD/PBH05/05	9.46	10.93	1.47	13.06	<0.05	16.47	<0.05	7.93	11.34	1.70	2.78	0.37	<0.08	0.31	1.18	0.74	32.02	<0.05	<0.05	20.02
7	BLD/PBH05/06	10.93	12.00	1.07	21.01	<0.05	0.88	<0.05	7.07	10.11	2.86	2.59	0.08	<0.08	0.17	0.41	1.18	51.79	<0.05	<0.05	8.87
8	BLD/PBH05/07	12.00	12.94	0.94	20.73	<0.05	0.56	<0.05	6.79	9.71	2.97	2.58	<0.05	<0.08	0.15	1.07	1.18	51.50	<0.05	<0.05	9.50
9	BLD/PBH05/08	12.94	13.88	0.94	20.76	<0.05	1.37	<0.05	8.49	12.14	2.77	2.77	<0.05	<0.08	0.12	1.35	1.12	48.28	<0.05	<0.05	9.28
10	BLD/PBH05/09	13.88	14.58	0.70	11.14	<0.05	24.37	<0.05	7.49	10.71	1.35	2.67	0.35	<0.08	0.17	0.86	0.57	23.56	<0.05	<0.05	24.21
11	BLD/PBH05/10	14.58	15.14	0.56	21.22	<0.05	2.69	<0.05	7.29	10.43	3.00	2.80	<0.05	<0.08	0.08	1.13	1.13	47.43	<0.05	<0.05	10.06
13	BLD/PBH05/11	15.14	16.14	1.00	21.70	<0.05	1.06	<0.05	8.11	11.59	3.03	2.95	<0.05	<0.08	0.09	1.55	1.13	47.42	<0.05	<0.05	9.45
14	BLD/PBH05/12	16.14	17.07	0.93	4.92	<0.05	36.57	<0.05	9.16	13.09	0.34	2.38	0.55	<0.08	0.37	0.39	0.22	9.01	<0.05	<0.05	32.15
15	BLD/PBH05/13	17.07	18.00	0.93	3.56	<0.05	37.12	<0.05	9.17	13.11	0.23	2.74	1.41	<0.08	0.33	4.44	0.16	5.32	<0.05	<0.05	31.55
16	BLD/PBH05/14	18.00	19.00	1.00	1.48	<0.05	46.81	<0.05	4.54	6.50	<0.05	2.05	1.11	<0.08	0.16	0.34	0.06	1.86	<0.05	<0.05	39.58
17	BLD/PBH05/15	19.00	20.00	1.00	1.48	<0.05	44.93	<0.05	5.88	8.41	<0.05	2.48	1.15	<0.08	0.21	0.18	0.06	2.00	<0.05	<0.05	39.03
18	BLD/PBH05/16	20.00	21.00	1.00	2.21	<0.05	41.86	<0.05	7.78	11.12	0.07	3.12	1.25	<0.08	0.18	0.21	0.07	2.70	<0.05	<0.05	37.18
19	BLD/PBH05/17	21.00	22.00	1.00	3.98	<0.05	39.93	<0.05	7.04	10.06	0.36	2.48	0.89	<0.08	0.23	0.45	0.18	7.10	<0.05	<0.05	34.32
20	BLD/PBH05/18	22.00	23.00	1.00	3.77	<0.05	38.79	<0.05	6.82	9.75	0.32	2.58	0.69	<0.08	0.25	1.78	0.16	8.96	<0.05	<0.05	32.94
21	BLD/PBH05/19	23.00	24.00	1.00	4.06	<0.05	38.83	<0.05	7.37	10.54	0.31	2.59	0.55	<0.08	0.17	3.54	0.16	6.56	<0.05	<0.05	32.69
23	BLD/PBH05/20	24.00	25.00	1.00	2.80	<0.05	44.45	<0.05	4.29	6.14	0.23	1.95	0.46	<0.08	0.11	2.30	0.10	4.84	<0.05	<0.05	36.60
24	BLD/PBH05/21	25.00	26.00	1.00	2.63	<0.05	45.03	<0.05	3.01	4.31	0.22	1.62	0.35	<0.08	0.06	2.82	0.12	5.21	<0.05	<0.05	37.62
25	BLD/PBH05/22	26.00	27.00	1.00	2.67	<0.05	46.29	<0.05	2.44	3.49	0.22	1.54	0.30	<0.08	0.09	2.86	0.11	4.26	<0.05	<0.05	38.16
26	BLD/PBH05/23	27.00	28.00	1.00	2.29	<0.05	45.69	<0.05	3.08	4.40	0.15	1.80	0.32	<0.08	0.08	3.07	0.09	4.55	<0.05	<0.05	37.55
27	BLD/PBH05/24	28.00	29.00	1.00	3.91	<0.05	41.04	<0.05	4.50	6.43	0.28	2.40	0.30	<0.08	0.11	2.97	0.15	7.49	<0.05	<0.05	34.90
28	BLD/PBH05/25	29.00	30.00	1.00	3.74	<0.05	41.12	<0.05	5.32	7.60	0.19	2.47	0.31	<0.08	0.10	3.26	0.13	6.54	<0.05	<0.05	34.50

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-05

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
29	BLD/PBH05/26	30.00	31.00	1.00	2.39	<0.05	45.43	<0.05	4.45	6.37	0.10	2.01	0.38	<0.08	0.13	1.50	0.07	4.07	<0.05	<0.05	37.54
30	BLD/PBH05/27	31.00	32.00	1.00	2.02	<0.05	45.23	<0.05	5.54	7.92	0.11	1.77	0.36	<0.08	0.23	1.52	0.08	3.77	<0.05	<0.05	36.98
31	BLD/PBH05/28	32.00	33.00	1.00	2.26	<0.05	44.92	<0.05	5.02	7.18	0.17	1.76	0.24	<0.08	0.17	2.07	0.10	4.63	<0.05	<0.05	36.50
32	BLD/PBH05/29	33.00	34.00	1.00	3.61	<0.05	36.31	<0.05	12.82	18.33	0.23	2.29	0.13	<0.08	0.42	1.36	0.16	5.79	<0.05	<0.05	31.34
33	BLD/PBH05/30	34.00	35.00	1.00	4.27	<0.05	36.13	<0.05	11.81	16.89	0.28	2.50	0.17	<0.08	0.37	1.26	0.19	6.62	<0.05	<0.05	31.30
35	BLD/PBH05/31	35.00	36.00	1.00	3.57	<0.05	38.88	0.05	9.93	14.20	0.25	2.18	0.12	<0.08	0.35	1.71	0.16	5.81	<0.05	<0.05	32.73
36	BLD/PBH05/32	36.00	37.00	1.00	1.93	<0.05	47.11	<0.05	4.37	6.24	0.13	1.49	0.14	<0.08	0.20	0.82	0.08	3.00	<0.05	<0.05	38.85
37	BLD/PBH05/33	37.00	38.00	1.00	3.49	<0.05	44.33	<0.05	3.97	5.68	0.27	1.75	0.10	<0.08	0.14	1.68	0.15	5.49	<0.05	<0.05	36.90
38	BLD/PBH05/34	38.00	39.00	1.00	3.75	<0.05	43.43	<0.05	4.09	5.85	0.38	1.83	0.11	<0.08	0.19	1.42	0.19	6.63	<0.05	<0.05	36.21
39	BLD/PBH05/35	39.00	40.00	1.00	5.62	<0.05	37.68	<0.05	5.85	8.36	0.55	2.71	0.08	<0.08	0.29	1.13	0.28	9.84	<0.05	<0.05	33.43
40	BLD/PBH05/36	40.00	41.00	1.00	5.79	<0.05	35.27	<0.05	6.77	9.68	0.60	3.48	<0.05	<0.08	0.36	0.90	0.28	11.58	<0.05	<0.05	31.99
41	BLD/PBH05/37	41.00	42.00	1.00	5.01	<0.05	38.83	<0.05	5.90	8.43	0.49	2.45	0.05	<0.08	0.33	0.76	0.23	9.95	<0.05	<0.05	33.43
42	BLD/PBH05/38	42.00	43.50	1.50	22.32	<0.05	0.92	<0.05	8.31	11.88	3.07	3.29	<0.05	0.48	0.43	0.97	1.05	47.51	<0.05	<0.05	8.05
43	BLD/PBH05/39	43.50	45.00	1.50	21.52	<0.05	1.46	<0.05	8.63	12.34	2.82	3.42	<0.05	0.35	0.11	1.23	1.01	45.95	<0.05	<0.05	9.77
45	BLD/PBH05/40	45.00	46.00	1.00	10.21	<0.05	26.47	<0.05	7.27	10.39	1.25	2.89	<0.05	0.08	0.43	0.93	0.50	22.05	<0.05	<0.05	24.77
46	BLD/PBH05/41	46.00	47.00	1.00	4.44	<0.05	40.86	<0.05	3.79	5.42	0.52	2.36	<0.05	<0.08	0.16	0.99	0.21	10.32	<0.05	<0.05	34.68
47	BLD/PBH05/42	47.00	48.00	1.00	4.35	<0.05	41.59	<0.05	2.63	3.76	0.49	2.60	<0.05	<0.08	0.10	1.03	0.19	10.25	<0.05	<0.05	35.61
48	BLD/PBH05/43	48.00	49.00	1.00	3.03	<0.05	43.90	<0.05	2.03	2.90	0.32	3.13	<0.05	<0.08	0.06	0.92	0.13	7.77	<0.05	<0.05	37.80
49	BLD/PBH05/44	49.00	50.00	1.00	2.35	<0.05	46.39	<0.05	1.89	2.70	0.23	2.47	<0.05	<0.08	0.05	1.10	0.10	5.52	<0.05	<0.05	39.03
50	BLD/PBH05/45	50.00	51.00	1.00	2.14	<0.05	45.73	<0.05	2.12	3.02	0.21	3.42	0.13	<0.08	0.07	0.88	0.09	4.90	<0.05	<0.05	39.39
51	BLD/PBH05/46	51.00	52.00	1.00	2.56	<0.05	46.34	<0.05	2.17	3.10	0.22	2.26	0.21	<0.08	0.08	1.47	0.09	4.98	<0.05	<0.05	38.67
52	BLD/PBH05/47	52.00	53.00	1.00	2.15	<0.05	47.40	<0.05	2.10	3.00	0.15	2.05	0.30	<0.08	0.07	2.03	0.07	3.71	<0.05	<0.05	39.06
53	BLD/PBH05/48	53.00	54.00	1.00	2.70	<0.05	44.15	<0.05	3.23	4.62	0.25	3.10	0.26	<0.08	0.12	2.14	0.11	5.39	<0.05	<0.05	37.15
54	BLD/PBH05/49	54.00	55.00	1.00	1.79	<0.05	48.51	<0.05	1.75	2.50	0.16	1.63	0.20	<0.08	0.06	1.78	0.08	3.57	<0.05	<0.05	39.70
56	BLD/PBH05/50	55.00	56.00	1.00	1.86	<0.05	48.29	<0.05	1.65	2.37	0.15	1.63	0.16	<0.08	0.05	1.76	0.09	3.84	<0.05	<0.05	39.78

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-05

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
57	BLD/PBH05/51	56.00	57.00	1.00	2.23	<0.05	47.56	<0.05	1.89	2.70	0.17	1.90	0.13	<0.08	0.06	1.60	0.09	4.08	<0.05	<0.05	39.47
58	BLD/PBH05/52	57.00	58.00	1.00	3.19	<0.05	44.52	<0.05	2.72	3.88	0.29	2.71	0.11	<0.08	0.12	0.82	0.14	5.68	<0.05	<0.05	38.51
59	BLD/PBH05/53	58.00	59.00	1.00	3.57	<0.05	42.99	<0.05	3.61	5.16	0.36	3.04	0.14	<0.08	0.16	0.70	0.17	6.68	<0.05	<0.05	37.03
60	BLD/PBH05/54	59.00	60.00	1.00	3.53	<0.05	42.27	<0.05	3.92	5.60	0.34	3.53	<0.05	<0.08	0.12	0.67	0.16	6.37	<0.05	<0.05	37.35
61	BLD/PBH05/55	60.00	61.00	1.00	3.31	<0.05	44.20	<0.05	3.06	4.38	0.30	2.78	<0.05	<0.08	0.12	0.58	0.15	6.04	<0.05	<0.05	38.09
62	BLD/PBH05/56	61.00	62.00	1.00	4.86	<0.05	38.55	<0.05	2.82	4.03	0.52	4.58	<0.05	<0.08	0.19	0.68	0.23	10.09	<0.05	<0.05	36.23
63	BLD/PBH05/57	62.00	63.00	1.00	5.09	<0.05	37.96	<0.05	3.15	4.50	0.60	4.42	<0.05	<0.08	0.15	0.52	0.25	11.12	<0.05	<0.05	35.39
64	BLD/PBH05/58	63.00	64.00	1.00	5.68	<0.05	37.67	<0.05	5.58	7.98	0.54	3.15	<0.05	<0.08	0.22	0.61	0.26	10.43	<0.05	<0.05	33.44
65	BLD/PBH05/59	64.00	65.00	1.00	2.74	<0.05	45.80	<0.05	1.53	2.19	0.27	2.68	<0.05	<0.08	0.07	0.75	0.13	6.08	<0.05	<0.05	39.27
67	BLD/PBH05/60	65.00	66.00	1.00	4.79	<0.05	40.95	<0.05	3.12	4.46	0.40	3.15	<0.05	<0.08	0.15	0.80	0.22	8.88	<0.05	<0.05	36.17
68	BLD/PBH05/61	66.00	67.00	1.00	3.94	<0.05	44.13	<0.05	2.31	3.30	0.34	2.60	<0.05	<0.08	0.17	1.17	0.16	6.34	<0.05	<0.05	37.83
69	BLD/PBH05/62	67.00	68.00	1.00	3.79	<0.05	43.99	<0.05	3.39	4.85	0.29	2.41	<0.05	<0.08	0.18	1.38	0.15	6.05	<0.05	<0.05	36.90
70	BLD/PBH05/63	68.00	69.00	1.00	2.84	<0.05	46.74	<0.05	2.05	2.93	0.19	1.88	<0.05	<0.08	0.09	1.57	0.10	4.76	<0.05	<0.05	38.88
71	BLD/PBH05/64	69.00	70.00	1.00	3.44	<0.05	45.34	<0.05	2.23	3.18	0.23	1.96	<0.05	<0.08	0.09	1.72	0.12	5.99	<0.05	<0.05	37.90
72	BLD/PBH05/65	70.00	71.00	1.00	2.80	<0.05	47.32	<0.05	1.60	2.29	0.20	1.71	<0.05	<0.08	0.09	1.51	0.11	4.86	<0.05	<0.05	39.09
73	BLD/PBH05/66	71.00	72.00	1.00	3.08	<0.05	47.35	<0.05	1.14	1.64	0.25	1.68	<0.05	<0.08	<0.05	1.00	0.13	5.40	<0.05	<0.05	39.41
74	BLD/PBH05/67	72.00	73.00	1.00	3.08	<0.05	46.40	<0.05	1.64	2.35	0.27	1.82	<0.05	<0.08	<0.05	1.28	0.14	6.00	<0.05	<0.05	38.59
75	BLD/PBH05/68	73.00	74.00	1.00	3.06	<0.05	47.11	<0.05	1.35	1.92	0.28	1.61	<0.05	<0.08	0.05	1.29	0.14	5.88	<0.05	<0.05	38.65
76	BLD/PBH05/69	74.00	75.00	1.00	2.38	<0.05	48.69	<0.05	1.08	1.55	0.21	1.58	<0.05	<0.08	<0.05	0.81	0.11	4.97	<0.05	<0.05	39.66
78	BLD/PBH05/70	75.00	76.00	1.00	2.63	<0.05	48.48	<0.05	1.26	1.80	0.13	1.70	<0.05	<0.08	0.06	0.81	0.09	4.34	<0.05	<0.05	39.92
79	BLD/PBH05/71	76.00	77.00	1.00	3.35	<0.05	45.79	<0.05	1.64	2.35	0.19	1.73	<0.05	<0.08	0.05	1.42	0.10	5.78	<0.05	<0.05	39.21
80	BLD/PBH05/72	77.00	78.00	1.00	1.32	<0.05	51.82	<0.05	0.60	0.85	0.06	1.05	<0.05	<0.08	<0.05	0.58	<0.05	1.52	<0.05	<0.05	42.68
81	BLD/PBH05/73	78.00	79.00	1.00	1.48	<0.05	51.95	<0.05	0.59	0.84	0.09	1.09	<0.05	<0.08	<0.05	0.65	<0.05	2.00	<0.05	<0.05	41.80
82	BLD/PBH05/74	79.00	80.00	1.00	1.41	<0.05	52.09	<0.05	0.55	0.78	0.08	1.10	<0.05	<0.08	0.05	0.61	<0.05	1.96	<0.05	<0.05	41.84
83	BLD/PBH05/75	80.00	81.00	1.00	1.01	<0.05	52.94	<0.05	0.53	0.75	0.07	0.94	<0.05	<0.08	0.06	0.57	<0.05	1.52	<0.05	<0.05	42.09

ANNEXURE-IV: ANALYTICAL RESULT OF CORE SAMPLES FOR BOREHOLE PBH-05

S.No.	Sample No	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
84	BLD/PBH05/76	81.00	82.00	1.00	1.71	<0.05	50.78	<0.05	0.82	1.17	0.15	1.26	<0.05	<0.08	0.05	0.85	0.07	3.11	<0.05	<0.05	40.84
85	BLD/PBH05/77	82.00	83.00	1.00	1.54	<0.05	50.25	<0.05	0.89	1.28	0.11	1.32	<0.05	<0.08	<0.05	0.76	0.05	2.82	<0.05	<0.05	41.81
86	BLD/PBH05/78	83.00	84.00	1.00	2.09	<0.05	49.05	<0.05	1.10	1.57	0.19	1.41	<0.05	<0.08	<0.05	1.04	0.08	4.06	<0.05	<0.05	40.44
87	BLD/PBH05/79	84.00	85.00	1.00	1.19	<0.05	51.84	<0.05	0.71	1.01	0.12	1.22	<0.05	<0.08	0.05	0.63	0.05	2.48	<0.05	<0.05	41.37
89	BLD/PBH05/80	85.00	86.00	1.00	1.76	<0.05	51.00	<0.05	0.72	1.02	0.15	1.34	<0.05	<0.08	<0.05	0.68	0.08	3.03	<0.05	<0.05	40.87
90	BLD/PBH05/81	86.00	87.00	1.00	1.61	<0.05	51.06	<0.05	0.85	1.22	0.14	1.31	<0.05	<0.08	0.09	0.81	0.05	2.68	<0.05	<0.05	41.00
91	BLD/PBH05/82	87.00	88.00	1.00	1.29	<0.05	51.65	<0.05	1.04	1.48	0.08	1.27	<0.05	<0.08	0.06	0.94	<0.05	2.16	<0.05	<0.05	41.00
92	BLD/PBH05/83	88.00	89.00	1.00	1.87	<0.05	50.76	<0.05	0.83	1.18	0.14	1.32	<0.05	<0.08	<0.05	0.81	0.06	2.89	<0.05	<0.05	40.90
93	BLD/PBH05/84	89.00	90.00	1.00	1.51	<0.05	51.92	<0.05	0.55	0.79	0.11	1.16	<0.05	<0.08	<0.05	0.49	<0.05	2.26	<0.05	<0.05	41.64
94	BLD/PBH05/85	90.00	91.00	1.00	1.38	<0.05	51.92	<0.05	0.62	0.89	0.10	1.21	<0.05	<0.08	<0.05	0.51	<0.05	2.16	<0.05	<0.05	41.73
95	BLD/PBH05/86	91.00	92.00	1.00	1.90	<0.05	50.62	<0.05	0.76	1.09	0.16	1.23	<0.05	<0.08	<0.05	0.73	0.07	3.19	<0.05	<0.05	40.95
96	BLD/PBH05/87	92.00	93.00	1.00	1.17	<0.05	51.99	<0.05	0.69	0.99	0.09	1.20	<0.05	<0.08	<0.05	0.73	<0.05	2.15	<0.05	<0.05	41.59
97	BLD/PBH05/88	93.00	94.00	1.00	1.86	<0.05	51.21	<0.05	0.54	0.77	0.13	1.23	<0.05	<0.08	<0.05	0.50	0.06	2.77	<0.05	<0.05	41.42
98	BLD/PBH05/89	94.00	95.00	1.00	2.38	<0.05	49.19	<0.05	1.08	1.55	0.16	1.52	<0.05	<0.08	<0.05	0.76	0.08	3.97	<0.05	<0.05	40.34
100	BLD/PBH05/90	95.00	96.00	1.00	1.88	<0.05	50.17	<0.05	0.98	1.40	0.11	1.45	<0.05	<0.08	<0.05	0.65	0.09	3.34	<0.05	<0.05	40.84
101	BLD/PBH05/91	96.00	97.00	1.00	2.05	<0.05	49.63	<0.05	1.08	1.55	0.18	1.48	<0.05	<0.08	<0.05	0.67	0.07	3.89	<0.05	<0.05	40.42
102	BLD/PBH05/92	97.00	98.00	1.00	1.64	<0.05	50.62	<0.05	0.96	1.37	0.15	1.34	<0.05	<0.08	<0.05	0.63	0.06	3.16	<0.05	<0.05	40.96
103	BLD/PBH05/93	98.00	99.00	1.00	2.22	<0.05	48.39	<0.05	1.56	2.24	0.20	1.57	<0.05	<0.08	0.05	1.32	0.09	4.56	<0.05	<0.05	39.35
104	BLD/PBH05/94	99.00	100.00	1.00	2.40	<0.05	48.02	<0.05	1.50	2.15	0.23	1.56	<0.05	<0.08	<0.05	1.18	0.10	4.94	<0.05	<0.05	39.36

ANNEXURE-V: ANALYTICAL RESULT OF CHECK SAMPLE (DUPLICATE SAMPLES)

Sr No	Sample No	SiO2 (%)	TiO2 (%)	Al2O3 (%)	Fe2O3(T) (%)	MnO (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	P2O5 (%)	SO3 (%)	L.O.I (%)
1	BLD/PBH-01/11	6.641	0.157	3.136	5.947	0.103	3.26	42.163	0.016	0.334	0.082	0.508	37.401239
2	BLD/PBH-01/22	5.217	0.108	2.331	3.062	<0.01	1.582	47.368	0.074	0.185	0.058	1.461	38.32998
3	BLD/PBH-01/33	2.43	0.047	1.182	0.92	<0.01	0.969	52.384	<0.01	0.102	0.026	0.668	41.198655
4	BLD/PBH-01/44	2.757	0.052	1.283	1.028	<0.01	1.066	51.659	0.029	0.118	0.019	0.534	41.296554
5	BLD/PBH-01/55	6.543	0.132	2.822	2.533	<0.01	1.453	47.057	0.014	0.303	0.038	1.163	37.801393
6	BLD/PBH-01/66	55.719	0.341	6.278	5.817	<0.01	0.969	14.538	0.022	1.161	0.046	2.37	12.498037
7	BLD/PBH-01/75	66.643	0.609	11.54	5.454	<0.01	1.001	3.665	0.073	1.935	0.054	1.939	6.492835
8	BLD/PBH-01/84	51.439	1.057	20.868	7.249	0.018	1.028	0.81	0.026	2.119	0.051	1.637	13.421441
9	BLD/PBH02/10	6.887	0.184	3.651	12.026	0.538	2.559	38.468	0.018	0.278	0.141	3.283	31.713985
10	BLD/PBH02/20	5.514	0.145	2.862	15.717	0.119	1.873	39.105	0.025	0.191	0.243	1.312	32.556365
11	BLD/PBH02/30	48.827	1.078	21.32	11.311	<0.01	3.147	0.889	0.541	2.951	0.366	1.065	8.0785724
12	BLD/PBH02/40	4.969	0.109	2.273	4.541	0.257	2.533	45.464	<0.01	0.21	0.063	1.675	37.606838
13	BLD/PBH02/50	9.333	0.221	4.473	6.931	<0.01	2.644	40.487	0.028	0.454	0.141	0.435	34.730481
14	BLD/PBH02/60	6.315	0.147	3.128	2.01	<0.01	1.463	46.857	0.041	0.3	0.026	1.335	38.198639
15	BLD/PBH02/70	3.88	0.082	1.875	1.359	<0.01	1.16	50.042	<0.01	0.2	0.029	1.014	40.170643
16	BLD/PBH02/80	3.063	0.064	1.517	0.807	<0.01	1.034	51.2	0.02	0.145	0.016	0.48	41.284404
17	BLD/PBH02/90	5.939	0.144	3.052	4.041	0.011	1.307	46.391	<0.01	0.308	0.055	1.285	37.248865
18	BLD/PBH02/96	10.839	0.247	5.115	2.536	<0.01	1.102	42.666	0.019	0.476	0.064	1.031	35.548007
19	BLD/PBH03/10	6.697	0.18	3.587	11.101	0.506	2.473	39.488	0.012	0.278	0.244	2.692	32.551247
20	BLD/PBH03/20	6.065	0.166	3.215	18.645	0.126	2.027	36.585	0.024	0.209	0.268	1.081	31.245849
21	BLD/PBH03/30	49.088	1.105	21.8	11.178	<0.01	3.089	0.224	0.763	3.159	0.122	0.884	7.8380483
22	BLD/PBH03/40	5.547	0.122	2.516	4.851	0.284	2.805	44.303	0.028	0.234	0.098	1.928	36.976679
23	BLD/PBH03/50	11.498	0.258	5.081	7.896	<0.01	4.118	36.026	0.082	0.578	0.137	0.312	33.64235
24	BLD/PBH03/60	5.881	0.132	2.82	2.386	<0.01	1.621	47.061	0.011	0.271	0.043	1.247	38.360021

ANNEXURE-V: ANALYTICAL RESULT OF CHECK SAMPLE (DUPLICATE SAMPLES)

Sr No	Sample No	SiO2 (%)	TiO2 (%)	Al2O3 (%)	Fe2O3(T) (%)	MnO (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	P2O5 (%)	SO3 (%)	L.O.I (%)
25	BLD/PBH03/70	2.929	0.058	1.408	0.922	<0.01	1.002	51.524	<0.01	0.143	0.027	0.63	41.091756
26	BLD/PBH03/80	2.733	0.05	1.238	1.049	<0.01	1.055	51.833	0.03	0.112	0.016	0.579	41.108085
27	BLD/PBH03/86	5.166	0.11	2.386	2.099	<0.01	1.444	48.262	0.02	0.265	0.027	0.924	39.057617
28	BLD/PBH-04/10	4.774	0.142	2.826	10.654	1.237	2.554	40.15	<0.01	0.157	0.106	2.779	34.202567
29	BLD/PBH-04/20	4.366	0.096	2.071	4.143	0.273	1.619	47.312	<0.01	0.135	0.047	2.331	37.453184
30	BLD/PBH-04/30	5.781	0.14	2.898	6.26	0.079	1.602	45.02	0.011	0.279	0.112	1.514	36.156226
31	BLD/PBH-04/40	8.576	0.157	3.212	3.439	0.019	2.635	43.335	0.036	0.352	0.039	1.226	36.776719
32	BLD/PBH-04/50	6.663	0.148	2.997	4.625	0.101	3.059	43.405	0.06	0.336	0.089	0.625	37.317694
33	BLD/PBH-04/60	6.193	0.137	2.839	3.554	<0.01	1.767	45.646	0.07	0.245	0.064	1.339	37.753883
34	BLD/PBH-04/70	1.845	0.03	0.882	0.76	<0.01	0.926	53.249	0.044	0.076	0.033	0.52	41.522207
35	BLD/PBH-04/80	2.582	0.051	1.22	1.232	<0.01	1.087	51.606	0.037	0.121	0.027	0.818	40.980075
36	BLD/PBH-04/90	5.077	0.112	2.385	2.349	<0.01	1.464	48.045	0.042	0.231	0.037	1.229	38.845554
37	BLD/PBH05/10	48.403	1.024	20.163	9.689	<0.01	2.595	2.627	0.174	3.037	0.106	0.886	10.981818
38	BLD/PBH05/20	5.138	0.13	2.694	6.561	0.383	1.771	44.75	0.038	0.208	0.082	1.78	36.157507
39	BLD/PBH05/30	7.253	0.2	3.89	18.104	0.108	2.259	35.81	0.019	0.286	0.257	0.764	30.780484
40	BLD/PBH05/40	22.64	0.504	9.938	10.408	<0.01	2.727	26.157	0.206	1.254	0.327	0.612	24.675962
41	BLD/PBH05/50	4.028	0.084	1.831	2.484	0.135	1.453	48.589	0.049	0.179	0.027	1.602	39.272819
42	BLD/PBH05/60	9.216	0.213	4.266	4.59	<0.01	2.952	41.176	0.05	0.433	0.096	0.734	35.74061
43	BLD/PBH05/70	4.476	0.097	2.108	1.799	<0.01	1.467	49.003	0.031	0.173	0.032	0.797	39.803357
44	BLD/PBH05/80	3.167	0.067	1.542	1.031	<0.01	1.133	51.176	0.048	0.186	0.02	0.605	40.901633
45	BLD/PBH05/90	3.496	0.07	1.599	1.416	<0.01	1.239	50.625	0.017	0.147	0.025	0.546	40.66442
46	BLD-06	3.873	0.077	1.78	1.121	<0.01	1.266	50.53	0.09	0.16	0.01	0.415	40.527241
47	BLD-12	1.552	0.027	0.78	0.676	<0.01	0.89	53.74	0.12	0.07	0.02	0.041	42.0298
48	BLD-21	3.496	0.069	1.51	5.883	0.32	1.191	48.38	0.06	0.11	0.10	<0.01	38.909542

ANNEXURE-V: ANALYTICAL RESULT OF CHECK SAMPLE (DUPLICATE SAMPLES)

Sr No	Sample No	SiO2 (%)	TiO2 (%)	Al2O3 (%)	Fe2O3(T) (%)	MnO (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	P2O5 (%)	SO3 (%)	L.O.I. (%)
49	BLD-26	2.637	0.046	1.09	4.591	0.15	1.028	49.84	0.06	0.09	0.08	<0.01	40.18596
50	BLD-35	2.92	0.062	1.44	2.345	0.37	0.96	50.84	0.02	0.12	0.04	<0.01	40.81381

ANNEXURE-VI: ANALYTICAL RESULT (MAJOR OXIDES) OF PETROCHEMICAL SAMPLES

S.NO	Sample ID	From	To	Thickness	Al ₂ O ₃	BaO	CaO	Cr ₂ O ₃	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SO ₃	TiO ₂	SiO ₂	SrO	V ₂ O ₅	LOI
1	BLD/PBH01/15	18.00	19.00	1.00	5.66	<0.05	35.55	<0.05	4.68	6.69	0.65	4.08	<0.05	<0.08	0.10	0.64	0.28	11.78	0.10	<0.05	34.35
2	BLD/PBH01/70	73.00	74.00	1.00	11.59	<0.05	16.01	<0.05	4.92	7.04	1.53	1.19	<0.05	<0.08	0.07	3.33	1.15	40.24	<0.05	<0.05	17.61
3	BLD/PBH02/24	26.00	27.00	1.00	2.28	<0.05	48.38	<0.05	2.00	2.86	0.18	1.41	0.12	<0.08	0.08	1.29	0.11	3.96	<0.05	<0.05	39.32
4	BLD/PBH02/94	97.00	98.00	1.00	10.49	<0.05	25.79	<0.05	3.54	5.07	1.12	1.68	<0.05	<0.08	0.05	2.68	0.96	26.61	<0.05	<0.05	25.53
5	BLD/PBH03/25	38.00	39.00	1.00	3.82	<0.05	41.73	<0.05	5.55	7.94	0.37	1.75	0.15	<0.08	0.11	1.40	0.19	6.71	0.08	<0.05	35.63
6	BLD/PBH03/64	77.00	78.00	1.00	1.49	<0.05	50.75	<0.05	1.16	1.66	0.07	1.26	<0.05	<0.08	<0.05	0.65	<0.05	2.41	0.06	<0.05	41.51
7	BLD/PBH04/13	20.00	21.00	1.00	2.34	<0.05	40.18	<0.05	9.17	13.11	0.11	2.58	1.21	<0.08	0.08	0.21	0.09	3.17	0.10	<0.05	36.67
8	BLD/PBH04/54	62.00	63.00	1.00	5.02	<0.05	36.00	<0.05	5.88	8.40	0.57	3.95	<0.05	<0.08	0.11	0.51	0.25	10.61	0.10	<0.05	34.37
9	BLD/PBH05/37	41.00	42.00	1.00	5.01	<0.05	38.83	<0.05	5.90	8.43	0.49	2.45	0.05	<0.08	0.33	0.76	0.23	9.95	<0.05	<0.05	33.43
10	BLD/PBH05/71	76.00	77.00	1.00	3.35	<0.05	45.79	<0.05	1.64	2.35	0.19	1.73	<0.05	<0.08	0.05	1.42	0.10	5.78	<0.05	<0.05	39.21

ANNEXURE-VII: BULK DENSITY OF CORE SAMPLES

Sl. No.	Customer Code	Customer Description	METHOD	SOP/OM/094
			UNITS	gm/cm ³
			Lab ID	Bulk Density
1	BLD/PBH02/93	Powder	G621-1	2.48
2	BLD/PBH01/15	Powder	G621-2	2.61
3	BLD/PBH04/54	Powder	G621-3	2.49

ANNEXURE-VIII: NPEA Certificate of Accreditation



भारत का राजपत्र The Gazette of India

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असाधारण
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)
PART II—Section 3—Sub-section (ii)

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खान मंत्रालय

अधिसूचना

नई दिल्ली, 29 अगस्त, 2022

का.आ. 4038(अ).—केंद्रीय सरकार, खान और खनिज (विकास और विनियमन) अधिनियम, 1957 (1957 का 67) की धारा 4 की उपधारा (1) के दूसरे परंतुक द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए और भारतीय गुणवत्ता परिषद् के राष्ट्रीय शिक्षा और प्रशिक्षण प्रत्यायन बोर्ड (क्यूसीआई-एनएबीईटी) द्वारा उपबंधित प्रत्यायन के परिणामस्वरूप, उक्त अधिनियम की धारा 4 की उपधारा (1) के उक्त दूसरे परंतुक के प्रयोजनों के लिए भारत सरकार के खान मंत्रालय के आदेश संख्यांक एम.वी-16/15/2021-खान VI, तारीख 12 अगस्त, 2021 (जिसे इसमें इसके पश्चात् प्रत्यायित प्राइवेट खोज अभिकरणों की अधिसूचना के लिए उक्त मार्गदर्शक सिद्धांत कहा गया है) द्वारा जारी प्रत्यायित प्राइवेट खोज अभिकरणों की अधिसूचना के लिए मार्गदर्शक सिद्धांतों में यथा विनिर्दिष्ट “प्रवर्ग ‘क’ खोज अभिकरण” के अधीन मैसर्स महेश्वरी माईनिंग प्राइवेट लिमिटेड को अधिसूचित करती है।

2. अभिकरण, प्रत्यायित प्राइवेट खोज अभिकरणों की अधिसूचनाओं के लिए मार्गदर्शक सिद्धांतों में विनिर्दिष्ट शर्तों की अनुपालना के साथ पूर्वेक्षण संक्रियाएं करेगा।

3. यह अधिसूचना राजपत्र में इसके प्रकाशन की तारीख को प्रवृत्त होगी और अधिसूचना की तारीख से तीन वर्ष की अवधि के लिए या उसकी समाप्ति तक या प्रदत्त प्रत्यायन की समाप्ति तक, जो भी पहले हो विधिमान्य होगी।

[फा. सं. एम-वी-16/22/2022-खान VI]

डॉ. वीणा कुमारी डरमल, संयुक्त सचिव

MINISTRY OF MINES**NOTIFICATION**

New Delhi, the 29th August, 2022

S.O. 4038(E).—In exercise of the powers conferred under the second proviso to sub-section (1) of section 4 of the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957) and consequent upon accreditation provided by the National Accreditation Board for Education and Training of the Quality Council of India (QCI-NABET), the Central Government hereby notifies the M/s. Maheshwari Mining Private Limited under 'Category A Exploration Agencies' as specified in the guidelines for notification of accredited private exploration agencies issued by the Government of India in the Ministry of Mines vide order No. M.VI-16/15/2021-Mines VI, dated the 12th August, 2021 (hereafter referred to as the said guidelines for notification of accredited private exploration agencies) for the purposes of the said second proviso to sub-section (1) of section 4 of the said Act.

2. The agency shall carry out prospecting operations in compliance with the conditions specified in the said guidelines for notifications of accredited private exploration agencies.

3. This notification shall come into force on the date of its publication in the Official Gazette and shall remain valid for a period of three years from the date of notification or till expiry or termination of the accreditation granted, whichever is earlier.

[F. No. M.VI-16/22/2022-Mines VI]

Dr. VEENA KUMARI DERMAL, Jt. Secy.

ANNEXURE-IX: Comments of the Peer Reviewer on “Preliminary Exploration (G3 stage) for Limestone in Northwest of Boro Lakhindong Block, Dima Hasao district, Assam”

Examined the Geological Report on Preliminary Exploration (G3 Stage) for Limestone in Northwest of Boro Lakhindong, Dima Hasao District, Assam and observations are as follows:

CONCLUSION AND RECOMMENDATION

The Geological Report on Preliminary Exploration (G3 Stage) for Limestone in Northwest of Boro Lakhindong, Dima Hasao District, Assam covering an area of 4.82 sq.km and involving 500m of drilling is a nice work done by team of M/s MMPL with very good documentation of data and presentation through photographs.

The block with net resource of 498.97 MT (Class 333 as per UNFC) under different grades viz. Cement (Portland) 195.29 MT, Cement (Blendable) 144.40 MT and SMS (OH) 155.68 MT appears to be very potential.

Further assessment of resource of 300.79 MT (Class 334 as per UNFC) carried out beyond the area of BH influence and up to the block boundary is encouraging and attracts further investigation in the entire area under G2 Level of exploration with closer bore hole spacing.

The overburden ratio appears to be favorable and large scale open cast quarry may be envisaged after G2 Level of exploration.

I appreciate the restrictions put on M/s MMPL under the quantum of work already defined earlier due to which bore holes PBH-02 to 05 have been closed at 100m depth only while intersecting the limestone mineralized zone, otherwise it would have been prudent to deepen any one of the above four boreholes up to Upper Sylhet Sandstone to decipher the total limestone column.

Sl. No	Comments/Observations
1.	<p>Executive Summary may not be assigned a Chapter.</p> <p>Introduction should start with Chapter-1 and corrections may be made accordingly for the following chapters along with number of Tables and Figures therein for the respective chapters.</p> <p>There should be a page for list of abbreviations used in the report so as to clarify what is SMS(OH) grade (at last line of page 4), XRF and SGS in table 2.3 at page 7, LGB International</p>

	Airport at page 9, PPL & XPL(Optical properties) at page 32, NQT at page 44 and so on
2.	<p>Chapter 2 Introduction</p> <p>6th line of first para</p> <p>The study area is bounded by Kopili River from the Western and Southern side.</p> <p>As per Plate I, II & IIA of the report, Kopili River appears to flow only in the south western corner of the block making a natural boundary. All sides of the Block boundary may be defined precisely.</p> <p>Para 2.1</p> <p>Notification in respect of M/s Maheshwari Mining Pvt. Ltd. as Notified Private Exploration Agency(NPEA) and further as ‘Category A Exploration Agencies’ may be annexed in the report</p>
3.	<p>Chapter 3 Property Description</p> <p>Para 3.1.3 Table 3.1</p> <p>Values in the table do not match with Header. May be corrected</p> <p>Longitudinal value of Point ID “C” at third row may be re-examined</p> <p>Para 3.1.7 Climate</p> <p>Source of data pertaining to rainfall and temperature may be indicated</p>
4.	<p>Chapter 6 Geoscience Investigation</p> <p>First line of page 24, (and also at the first line of last para of Executive Summary(page 3)) it is mentioned</p> <p><i>‘In boreholes, the thickness of limestone varies from 4.00m to 100m with the average being 88.56m’</i></p> <p>The statement is not clear.</p> <p>Thickness of limestone varies from 78.76m (PBH-01) to 95.60m (PBH-02) as is evident from Table 8.1 at page 46.</p> <p>Occurrence of limestone has been intersected at 4.0m depth in borehole PBH-01 and continues up to 100m depth in boreholes PBH-02, 03, 04 & 05.</p> <p>Documentation in respect of thickness/occurrence of limestone may be corrected accordingly.</p>

5.	<p>Chapter 11 Resource Estimation</p> <p>Table 11.1(page 57)</p> <p>From(m) value for intersection of limestone in borehole PBH-04 & 05 may be rechecked, it does not match with Table 8.1(page 46) or Table 9.2(page 49)</p>
6.	<p>Point 11.4 Cut-off Grade Considerations</p> <p>Table 11.2</p> <p>Please expand SMS (OH) and SMS (LD). It may be mentioned in the list of abbreviation also. Limestone is used in steel making industries also and as such SMS(OH) may be Steel Melting Shop (Open Hearth) and SMS(LD) may be Steel Melting Shop(Low Density/Low Dolomite) for Basic Oxygen Furnace</p>
7.	<p>Point 11.8 Methodology of Resource Estimation</p> <p>Sub para a)</p> <p>Please expand MEMC rule</p> <p>It should be - The Minerals (Evidence of Mineral Contents) Rules 2015, (As amended up to 14th December, 2021) Ministry of Mines, Govt. of India issued by the Controller General, IBM, Nagpur(January, 2022)</p> <p>Part-III of Schedule-I of the above rule allows 800m grid spacing of boreholes for G3 level of exploration in limestone.</p> <p>Five or any number of boreholes is the choice of exploratory agency subject to the area of exploration and approval by the approving authority (here it is NMET).</p>
8.	<p>Observation on plans</p> <p>Plate : I , II & IIA</p> <p>Scale is missing</p> <p>River name is missing</p> <p>Road is missing in legend</p> <p>Important location within the block or surrounding the area may be indicated on plan</p> <p>Roads joining places with their names at both end may be given on map</p>

	<p>Plate: III Geological cross section</p> <p>Monogram is missing</p> <p>Vertical Exaggeration: 1x means that the vertical and horizontal scales on a map or profile are the same.</p> <p>Plate- I, II, IIA & III are on same scale (1:4000). But distances between BH PBH-03 & 05 on X-sec. line U-U1 and PBH-04 & 05 on X-sec. line V-V1 does not exactly match with their distance on plans. Plotting of BH on X-sec. may be rechecked</p> <p>Plate IV Graphic Litholog</p> <p>Having a look at the graphic log has always been the first choice by a geologist or a mining engineer. I feel that M/s MMPL has maintained a very high degree of austerity here. Please take care. At least it should be vivid and readable.</p>
<p>All comments and suggestions made by the Peer Reviewer have been duly complied with by</p> <p style="text-align: center;">M/S. Maheshwari Mining Private Limited.</p>	