

DETAILED LITHOLOG OF BOREHOLES OF AMANGANJ-GUNNOR-PAWAI BLOCK, PANNA DISTRICT MADHYA PRADESH

Run-wise lithologs of boreholes drilled by Engeotech Consultant, Amanganj Gunnor Pawai Limestone Block (Area-93.13Sq.Km). Panna District,
Madhya Pradesh.

BOREHOLE NO. - 02

Latitude:	24°23'10.83"N	Depth Drilled:	50.00m
Longitude:	80°11'31.026"E	Date of Commencement:	19-02-2026
Reduce Level (m):	326.00m	Date of Closure:	26-02-2026
Angle of Borehole:	Vertical	Water Level:	06.00m
Core Size:	NQ		

RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL / NATURE DETAILS	REMARKS
FROM	TO	THICKNES S								
0.00	1.00	1.00	-	-	1.00	-	Soil	Brown	Sludge	Loose
1.00	2.00	1.00	-	-	2.00	-	Soil	Brown	Sludge	Loose
2.00	3.00	1.00	0.37	37%	3.00	15%	Soil	Brown	Sludge	Loose
							Shale	Reddish Brown	Hard & Compact, fractured limestone	Calcareous Shale
3.00	4.00	1.00	0.87	87%	4.00	-	Shale	Yellow to Brown	Hard & Compact	Calcareous Shale
4.00	5.00	1.00	0.65	65%	5.00	-	Shale	Reddish Brown	Hard & Compact, Parting	Calcareous Shale
5.00	6.00	1.00	0.53	53%	6.00	-	Shale	Reddish Brown	Hard & Compact, Parting	Calcareous Shale
6.00	7.00	1.00	0.88	88%	7.00	-	Shale	Light Grey	Hard & Compact, Parting	Calcareous Shale
7.00	8.00	1.00	0.86	86%	8.00	16%	Shale	Light Grey	Hard & Compact, Parting	Calcareous Shale
8.00	9.00	1.00	0.83	83%	9.00	13%	Shale	Light Grey	Hard & Compact, Parting	Calcareous Shale
9.00	10.00	1.00	0.86	86%	10.00	-	Shale	Light Grey	Hard & Compact, Parting	Calcareous Shale
10.00	11.00	1.00	0.79	79%	11.00	25%	Shale	Light Grey	Hard & Compact,	Calcareous Shale

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FROM	TO	THICKNES S								
									fractured limestone	
11.00	12.00	1.00	0.64	64%	12.00	-	Shale	Light Grey	Hard & Compact, fractured limestone	Calcareous Shale
12.00	13.00	1.00	0.77	77%	13.00	17%	Shale	Light Grey	Hard & Compact & Parting	Calcareous Shale
13.00	14.00	1.00	0.90	90%	14.00	27%	Shale	Light Grey	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
14.00	15.00	1.00	0.86	86%	15.00	-	Shale	Light Grey	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
15.00	16.00	1.00	0.87	87%	16.00	34%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
16.00	17.00	1.00	0.90	90%	17.00	37%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
17.00	18.00	1.00	0.90	90%	18.00	10%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.

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RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL / NATURE DETAILS	REMARKS
FROM	TO	THICKNESS								
18.00	19.00	1.00	0.90	90%	19.00	-	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
19.00	20.00	1.00	0.80	80%	20.00	-	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
20.00	21.00	1.00	0.91	91%	21.00	13%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
21.00	22.00	1.00	0.94	94%	22.00	21%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
22.00	23.00	1.00	0.93	93%	23.00	35%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
23.00	24.00	1.00	0.93	93%	24.00	39%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
24.00	25.00	1.00	0.93	93%	25.00	70%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to

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FROM	TO	THICKNESSES								
										Grey shale with sandstone.
25.00	26.00	1.00	0.91	91%	26.00	50%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
26.00	27.00	1.00	0.90	90%	27.00	40%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
27.00	28.00	1.00	0.90	90%	28.00	11%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
28.00	29.00	1.00	0.86	86%	29.00	-	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
29.00	30.00	1.00	0.84	84%	30.00	-	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale with sandstone.
30.00	31.00	1.00	0.88	88%	31.00	-	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalations of Reddish brown to Grey shale

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FROM	TO	THICKNES S								
										with sandstone.
31.00	32.00	1.00	0.90	90%	32.00	-	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
32.00	33.00	1.00	0.84	84%	33.00	48%	Soil	Reddishh Brown	Sludge	Intercalatio ns of Reddish brown to Grey shale with sandstone.
33.00	34.00	1.00	0.87	87%	34.00	31%	Shale	Grey	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
34.00	35.00	1.00	0.90	90%	35.00	-	Shale	Reddishh Brown	Sludge	Intercalatio ns of Reddish brown to Grey shale with sandstone.
35.00	36.00	1.00	0.87	87%	36.00	12%	Shale	Reddishh Brown	Sludge	Intercalatio ns of Reddish brown to Grey shale with sandstone.
36.00	37.00	1.00	0.92	92%	37.00	64%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale

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FROM	TO	THICKNES S								
										with sandstone.
37.00	38.00	1.00	0.94	94%	38.00	57%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
38.00	39.00	1.00	0.90	90%	39.00	56%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
39.00	40.00	1.00	0.85	85%	40.00	11%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
40.00	41.00	1.00	0.95	95%	41.00	40%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
41.00	42.00	1.00	0.90	90%	42.00	35%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
42.00	43.00	1.00	0.89	89%	43.00	44%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale

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FROM	TO	THICKNES S								
										with sandstone.
43.00	44.00	1.00	0.91	91%	44.00	30%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
44.00	45.00	1.00	0.88	88%	45.00	48%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
45.00	46.00	1.00	0.95	95%	46.00	35%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
46.00	47.00	1.00	0.94	94%	47.00	30%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
47.00	48.00	1.00	0.92	92%	48.00	36%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.
48.00	49.00	1.00	0.89	89%	49.00	40%	Shale	Reddishh Brown	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale

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Angle of Borehole:Vertical

Core Size:NQ

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FROM	TO	THICKNES S								
										with sandstone.
49.00	50.00	1.00	0.95	95%	50.00	40%	Shale	Grey	Hard & Compact & Parting	Intercalatio ns of Reddish brown to Grey shale with sandstone.

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BOREHOLE NO. - 05

Latitude:	24°25'12.708"N	Depth Drilled:	50.00m
Longitude:	80°14'00.444"E	Date of Commencement:	13-02-2026
Reduce Level (m):	341.00m	Date of Closure:	18-02-2026
Angle of Borehole:	Vertical	Water Level:	05.40.00 m
Core Size:	NQ		

RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL/NATURAL DETAILS	REMARKS
FROM	TO	THICKNESS								
0.00	1.00	1.00	-	-	1.00	-	Soil	Reddish Brown	Sludge	Loose
1.00	2.00	1.00	-	-	2.00	-	Soil	Reddish Brown	Sludge	Loose
2.00	3.00	1.00	0.28	28%	3.00	-	Shale	Reddish Brown	Hard & Compact,	Sludge with Shale
3.00	4.00	1.00	0.18	18%	4.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Sludge with Shale
4.00	5.00	1.00	0.60	60%	5.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
5.00	6.00	1.00	0.81	81%	6.00	21%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
6.00	7.00	1.00	0.62	62%	7.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
7.00	8.00	1.00	0.88	88%	8.00	17%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone

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Longitude:	80°14'00.444"E	Date of Commencement:	13-02-2026
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Angle of Borehole:	Vertical	Water Level:	05.40.00 m
Core Size:	NQ		

RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL/ NATURAL/ DETAIL S	REMARKS
FROM	TO	THICKNESS								
8.00	9.00	1.00	0.86	86%	9.00	35%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
9.00	10.00	1.00	0.88	88%	10.00	26%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
10.00	11.00	1.00	0.79	79%	11.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
11.00	12.00	1.00	0.91	91%	12.00	64%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
12.00	13.00	1.00	0.98	98%	13.00	52%		Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
13.00	14.00	1.00	0.90	90%	14.00	27%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
14.00	15.00	1.00	0.71	71%	15.00	18%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed

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FROM	TO	THICKNESS								
										of Sandstone
15.00	16.00	1.00	0.81	81%	16.00	31%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
16.00	17.00	1.00	0.93	93%	17.00	41%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
17.00	18.00	1.00	0.94	94%	18.00	76%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
18.00	19.00	1.00	0.93	93%	19.00	61%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
19.00	20.00	1.00	0.90	90%	20.00	56%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
20.00	21.00	1.00	0.88	88%	21.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone

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FROM	TO	THICKNESS								
21.00	22.00	1.00	0.93	93%	22.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
22.00	23.00	1.00	0.87	87%	23.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
23.00	24.00	1.00	0.86	86%	24.00	12%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
24.00	25.00	1.00	0.77	77%	25.00	-	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
25.00	26.00	1.00	0.91	91%	26.00	43%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
26.00	27.00	1.00	0.85	85%	27.00	40%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
27.00	28.00	1.00	0.86	86%	28.00	21%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed

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Core Size:	NQ		

RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL/NATURAL DETAILS	REMARKS
FROM	TO	THICKNESS								
										of Sandstone
28.00	29.00	1.00	0.94	94%	29.00	79%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
29.00	30.00	1.00	0.84	84%	30.00	57%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
30.00	31.00	1.00	0.95	95%	31.00	57%	Shale	Reddish Brown	Hard, Compact & Parting	Shale with intermixed of Sandstone
31.00	32.00	1.00	0.95	95%	32.00	64%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
32.00	33.00	1.00	0.87	87%	33.00	53%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
33.00	34.00	1.00	0.96	96%	34.00	11%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale

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Core Size:	NQ		

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FROM	TO	THICKNESS								
34.00	35.00	1.00	0.91	91%	35.00	12%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
35.00	36.00	1.00	0.94	94%	36.00	51%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
36.00	37.00	1.00	0.95	95%	37.00	37%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
37.00	38.00	1.00	0.91	91%	38.00	41%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
38.00	39.00	1.00	0.92	92%	39.00	39%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
39.00	40.00	1.00	0.95	95%	40.00	31%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
40.00	41.00	1.00	0.96	96%	41.00	65%	Shale	Grey	Hard, Compact & Parting	Grey colour fine

Run-wise lithologs of boreholes drilled by Engeotech Consultant, Amanganj Gunnor Pawai Limestone Block (Area-93.13Sq.Km). Panna District, Madhya Pradesh.

BOREHOLE NO. - 05

Latitude:	24°25'12.708"N	Depth Drilled:	50.00m
Longitude:	80°14'00.444"E	Date of Commencement:	13-02-2026
Reduce Level (m):	341.00m	Date of Closure:	18-02-2026
Angle of Borehole:	Vertical	Water Level:	05.40.00 m
Core Size:	NQ		

RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL/ NATURAL/ DETAIL S	REMARKS
FROM	TO	THICKNESS								
										grained shale
41.00	42.00	1.00	0.92	92%	42.00	27%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
42.00	43.00	1.00	0.89	89%	43.00	23%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
43.00	44.00	1.00	0.98	98%	44.00	35%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
44.00	45.00	1.00	0.92	92%	45.00	11%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
45.00	46.00	1.00	0.95	95%	46.00	38%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
46.00	47.00	1.00	0.98	98%	47.00	17%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale

Run-wise lithologs of boreholes drilled by Engeotech Consultant, Amanganj Gunnor Pawai Limestone Block (Area-93.13Sq.Km). Panna District, Madhya Pradesh.

BOREHOLE NO. - 05

Latitude:	24°25'12.708"N	Depth Drilled:	50.00m
Longitude:	80°14'00.444"E	Date of Commencement:	13-02-2026
Reduce Level (m):	341.00m	Date of Closure:	18-02-2026
Angle of Borehole:	Vertical	Water Level:	05.40.00 m
Core Size:	NQ		

RUN (m)			CORE RECOVERY (in m)	CORE RECOVERY (%)	FLOOR DEPTH (in m)	RQD (%)	LITHOLOGY	COLOUR	STRUCTURAL/NATURE DETAILS	REMARKS
FROM	TO	THICKNESS								
47.00	48.00	1.00	0.92	92%	48.00	43%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
48.00	49.00	1.00	0.90	90%	49.00	55%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale
49.00	50.00	1.00	0.85	85%	40.00	15%	Shale	Grey	Hard, Compact & Parting	Grey colour fine grained shale

Geochemical analysis results of 27 nos. of the Bed Rock Samples (BRS)

Annexure-II

S. No	Sample ID	LOI %	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %	MgO %	TiO ₂ %	Na ₂ O %	K ₂ O %	SO ₃ %	Mn %	P ₂ O ₅ %	Cl (ppm)	H ₂ O %
1	AMANGANJ/S.NO. -2	29.41	30.02	3.79	3.79	32.5	1.00	0.50 0	-	0.480	2.340	0.072	0.137	472	-
2	AMANGANJ/S.NO. -13	35.03	13.85	3.25	0.85	44.02	1.20	0.53 3	-	0.755	0.228	0.534	0.132	137	-
3	AMANGANJ/S.NO. -14	36.33	11.75	2.85	2.01	45.11	1.50	0.18 1	-	0.761	0.277	0.341	0.065	218	-
4	AMANGANJ/S.NO. -15	34.22	14.95	3.75	1.85	42.85	1.00	0.21 4	-	0.615	0.502	0.559	0.105	165	-
5	AMANGANJ/S.NO. -17	33.44	18.20	3.46	1.2	42.5	1.20	0.36 9	-	0.080	0.464	0.710	0.169	315	-
6	AMANGANJ/S.NO. -18	37.57	9.56	3.05	0.85	47.25	0.80	0.19 7	-	0.638	0.253	0.386	0.073	165	-
7	AMANGANJ/S.NO. -19	33.68	16.25	3.75	1.85	42.05	1.00	0.19 5	-	0.382	0.351	0.432	0.147	333	-
8	AMANGANJ/S.NO. -20	19.68	44.08	6	1.25	25	0.56	0.83 9	-	0.170	0.282	0.230	0.224	377	-
9	AMANGANJ/S.NO. -21	36.33	11.37	3.25	1.36	45.67	1.00	0.30 6	-	0.720	0.318	0.486	0.089	132	-
10	AMANGANJ/S.NO. -22	36.24	11.5	3.25	1.25	45.2	1.00	0.20 8	-	0.689	0.271	0.285	0.080	161	-
11	AMANGANJ/S.NO. -23	39.28	6.00	2.15	1.25	49.43	1.00	0.10 5	-	0.408	0.316	0.424	-	224	-
12	AMANGANJ/S.NO. -25	38.11	8.45	3.1	0.5	47.95	0.80	0.13 9	-	0.399	0.865	0.500	-	248	-

13	AMANGANJ/S.NO. -26	36.33	11.37	3.25	1.05	45.25	1.00	0.24 5	-	0.480	0.451	0.510	0.127	204	-
14	AMANGANJ/S.NO. -27	36.04	11.95	2.85	1.25	45.02	1.00	0.30 0	-	0.685	0.283	0.782	0.084	412	-
15	AMANGANJ/S.NO. -28	28.07	23.80	4.06	1.25	35.5	1.30	0.47 1	-	0.590	0.187	0.237	0.111	225	-
16	AMANGANJ/S.NO. -29	35.66	12.35	3.12	1.2	45.25	1.00	0.34 1	-	0.651	0.273	0.377	-	132	-
17	AMANGANJ/S.NO. -30	33.45	15.60	2.85	1.5	42.01	1.20	0.46 0	-	0.954	0.258	0.170	0.840	406	-
19	AMANGANJ/S.NO. -32	26.49	27.00	8.89	1.32	34.5	1.80	0.42 8	-	0.390	0.229	0.501	0.208	393	-
18	AMANGANJ/S.NO. -33	38.90	6.7	2.35	1.5	48.45	1.20	0.22 4	-	0.685	0.545	0.300	-	282	-
20	AMANGANJ/S.NO. -35	35.97	11.7	3.75	1.55	44.94	1.00	0.28 3	-	0.874	0.293	0.368	0.186	178	-
21	AMANGANJ/S.NO. -36	36.41	11.8	3.24	1.55	45.55	1.00	0.20 9	-	0.236	0.271	0.294	0.064	165	-
22	AMANGANJ/S.NO. -37	38.13	8.75	2.75	0.75	47.25	1.25	0.25 8	-	0.779	0.555	0.290	0.156	256	-
23	AMANGANJ/S.NO. -38	27.68	26.8	5.92	2	34.4	2.20	0.46 9	-	0.400	0.276	0.719	0.210	310	-
24	AMANGANJ/S.NO. -40	38.02	8.5	3.15	0.5	46.95	1.20	0.24 0	-	0.621	0.898	0.310	0.134	148	-
25	AMANGANJ/S.NO. -41	35.48	14.25	2.85	0.75	44.57	1.20	0.28 0	-	0.722	0.206	-	0.102	224	-
26	AMANGANJ/S.NO. -42	40.04	5.4	3.25	0.5	50.04	1.00	0.111	-	0.280	0.494	0.349	-	214	-
27	AMANGANJ/S.NO. -43	40.27	5	3.3	0.5	50.75	1.00	0.31 4	-	0.358	0.759	0.317	0.112	232	-

Annexure-III

Geochemical analysis results of 13 nos. of Core Samples of BH-2 & BH-5

S. No	Sample ID	LOI %	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %	MgO %	TiO ₂ %	Na ₂ O %	K ₂ O %	SO ₃ %	Mn %	P ₂ O ₅ %	Cl (ppm)	H ₂ O %
1	AMANGANJ/BH-2/S-1 (2-3 m)	24.95	32.8	8.05	2.1	28.8	2.3	0.722	-	0.98	0.336	0.234	0.233	460	-
2	AMANGANJ/BH-2/S-2 (3-4 m)	18.66	44.5	12	4.1	17.1	2.31	0.791	-	0.28	0.188	0.165	0.254	439	-
3	AMANGANJ/BH-2/S-3 (4-5 m)	13.37	51.7	13.9	6.8	10.8	2.39	0.865	-	0.77	0.219	0.096	0.275	767	-
4	AMANGANJ/BH-2/S-4 (5-6 m)	13.38	50.9	12.5	9	10	2.22	0.718	-	0.08	0.418	0.028	0.271	628	-
5	AMANGANJ/BH-2/S5 (7-8 m)	11.2	45.9	4.98	9.8	25.3	1.5	0.668	-	0.83	0.364	0.203	0.249	576	-
6	AMANGANJ/BH-2/S-6 (8-9 m)	13.68	49.9	14	7.8	11.3	2.82	0.755	-	0.72	0.383	0.12	0.265	620	-
7	AMANGANJ/BH-2/S-7 (10-11 m)	7.06	58.2	6.08	6.8	20.6	0.45	0.863	-	0.24	1.36	-	0.278	521	-
8	AMANGANJ/BH-2/S-8 (11-12 m)	22.46	34	8.5	4.55	27	2.56	0.728	-	0.18	0.239	0.137	0.216	462	-
9	AMANGANJ/BH-2/S-9 (12-13 m)	20.6	44.88	5.38	3.5	24.8	0.42	0.712	-	0.03	0.434	0.234	0.19	664	-
10	AMANGANJ/BH-5/S-1 (12-13 m)	7.96	56.4	5.77	6.8	20.5	0.49	0.858	-	0.85	0.45	0.067	0.286	549	-
11	AMANGANJ/BH-5/S-2 (33-34 m)	23.87	32.8	6.9	3.5	29.5	2.72	0.689	-	0.41	0.393	0.183	0.228	420	-
12	AMANGANJ/BH-5/S-3 (35-36 m)	7.39	60	5.99	4.9	20.4	0.49	0.78	-	0.2	0.128	0.03	0.114	200	-
13	AMANGANJ/BH-5/S-4 (45-46 m)	5.93	61.3	15.1	7.04	2.52	3.11	0.874	-	0.5	0.238	0.038	0.334	889	-

Geochemical analysis results report of 27 BRS & 13 nos. of Core Samples of BH-2 & BH-5


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CENTRAL LABORATORY

Report No. - FAG/2025-26/ 27 Date – 07.04.2026

Name of Party - ENGEOTECH CONSULTANT, 1338,
Kachnar City Road, Vijay Nagar, Kachnar City Road, Vijay Nagar, Jabalpur - 482002 M.P

Sample Category - Limestone

EDXRF - ANALYSIS REPORT

Sample No.	Sample Code	LOI%	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO%	MgO%	TiO ₂ %	Na ₂ O%	K ₂ O%	SO ₃ %	Mn%	P ₂ O ₅ %	Cl(ppm)	H ₂ O%
Sample 01	AMANGANJ/S.NO. - 2	29.41	30.02	3.79	3.79	32.50	1.00	0.500	-	0.48	2.34	0.072	0.137	472	-
Sample 02	AMANGANJ/S.NO. - 13	35.03	13.85	3.25	0.85	44.02	1.20	0.533	-	0.755	0.226	0.634	0.132	137	-
Sample 03	AMANGANJ/S.NO. - 14	36.33	11.75	2.85	2.01	45.11	1.50	0.181	-	0.761	0.277	0.341	0.0650	218	-
Sample 04	AMANGANJ/S.NO. - 15	34.22	14.95	3.75	1.85	42.85	1.00	0.214	-	0.615	0.502	0.559	0.105	165	-
Sample 05	AMANGANJ/S.NO. - 17	33.44	18.20	3.46	1.20	42.50	1.20	0.369	-	0.06	0.464	0.710	0.169	315	-
Sample 06	AMANGANJ/S.NO. - 18	37.57	9.55	3.05	0.85	47.25	0.80	0.197	-	0.638	0.253	0.386	0.0738	165	-
Sample 07	AMANGANJ/S.NO. - 19	33.68	16.25	3.75	1.85	42.05	1.00	0.195	-	0.382	0.351	0.432	0.147	333	-
Sample 08	AMANGANJ/S.NO. - 20	19.68	44.08	6.00	1.25	25.00	0.56	0.839	-	0.17	0.282	0.230	0.224	377	-
Sample 09	AMANGANJ/S.NO. - 21	36.33	11.37	3.25	1.35	45.67	1.00	0.306	-	0.720	0.318	0.485	0.0894	132	-
Sample 10	AMANGANJ/S.NO. - 22	36.24	11.50	3.25	1.25	45.20	1.00	0.208	-	0.689	0.271	0.285	0.0800	161	-

Shalini Ambashita
Chemist

K.K. BOM
Sr. Chemist

Jasraj Gehlot
Laboratory Incharge

जसराज गहलोत / Jasraj Gehlot
प्रयोगशाळा प्रभारी / Laboratory Incharge
ए सी आई अरावली गिप्सम एंड मिनेरल्स इंडिया लिमिटेड
FCI Aravali Gypsum And Minerals India Ltd.
भारत सरकार की उपरतः / Govt. of India Undertaking
जोधपुर / Jodhpur


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 Email – fagmillab@gmail.com
 

CENTRAL LABORATORY

Report No. - FAG/2025-26/ 27 Date – 07.04.2026

Name of Party - ENGEOTECH CONSULTANT, 1338,
Kachnar City Road, Vijay Nagar, Kachnar City Road, Vijay Nagar, Jabalpur - 482002 M.P

Sample Category - Limestone

EDXRF - ANALYSIS REPORT

Sample No.	Sample Code	LOI%	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO%	MgO%	TiO ₂ %	Na ₂ O%	K ₂ O%	SO ₃ %	Mn%	P ₂ O ₅ %	Cl(ppm)	H ₂ O%
Sample 11	AMANGANJ/S.NO. - 23	39.28	6.00	2.15	1.25	49.43	1.00	0.105	-	0.408	0.316	0.424	-	224	-
Sample 12	AMANGANJ/S.NO. - 25	38.11	8.45	3.10	0.50	47.95	0.80	0.139	-	0.399	0.865	0.500	-	248	-
Sample 13	AMANGANJ/S.NO. - 26	36.33	11.37	3.25	1.05	45.25	1.00	0.245	-	0.480	0.451	0.510	0.127	204	-
Sample 14	AMANGANJ/S.NO. - 27	36.04	11.95	2.85	1.25	45.02	1.00	0.300	-	0.685	0.283	0.782	0.0848	412	-
Sample 15	AMANGANJ/S.NO. - 28	28.07	23.80	4.06	1.25	35.50	1.30	0.471	-	0.59	0.187	0.237	0.111	225	-
Sample 16	AMANGANJ/S.NO. - 29	35.66	12.35	3.12	1.20	45.25	1.00	0.341	-	0.651	0.273	0.377	-	132	-
Sample 17	AMANGANJ/S.NO. - 30	33.45	15.60	2.85	1.50	42.01	1.20	0.460	-	0.954	0.258	0.170	0.0840	406	-
Sample 18	AMANGANJ/S.NO. - 32	26.49	27.00	8.89	1.32	34.50	1.80	0.428	-	0.39	0.229	0.501	0.208	393	-
Sample 19	AMANGANJ/S.NO. - 33	38.90	6.70	2.35	1.50	48.45	1.20	0.224	-	0.665	0.545	0.300	-	282	-
Sample 20	AMANGANJ/S.NO. - 35	35.97	11.70	3.75	1.55	44.94	1.00	0.283	-	0.874	0.293	0.368	0.186	178	-

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CENTRAL LABORATORY

Report No. - FAG/2025-26/ 27

Date – 07.04.2026

Name of Party - ENGEOTECH CONSULTANT, 1338,

Kachnar City Road, Vijay Nagar, Kachnar City Road, Vijay Nagar, Jabalpur - 482002 M.P

Sample Category - Limestone

EDXRF - ANALYSIS REPORT

Sample No.	Sample Code	LOI%	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO%	MgO%	TiO ₂ %	Na ₂ O%	K ₂ O%	SO ₃ %	Mn%	P ₂ O ₅ %	Cl(ppm)	H ₂ O%
Sample 21	AMANGANJ/S.NO. - 36	36.41	11.80	3.24	1.55	45.55	1.00	0.209	-	0.236	0.271	0.294	0.0646	165	-
Sample 22	AMANGANJ/S.NO. - 37	38.13	8.75	2.75	0.75	47.25	1.25	0.258	-	0.779	0.555	0.290	0.156	256	-
Sample 23	AMANGANJ/S.NO. - 38	27.68	26.80	5.92	2.00	34.40	2.20	0.469	-	0.40	0.276	0.719	0.210	310	-
Sample 24	AMANGANJ/S.NO. - 40	38.02	8.50	3.15	0.50	46.95	1.20	0.240	-	0.621	0.898	0.310	0.134	148	-
Sample 25	AMANGANJ/S.NO. - 41	35.46	14.25	2.85	0.75	44.57	1.20	0.280	-	0.722	0.206		0.102	224	-
Sample 26	AMANGANJ/S.NO. - 42	40.04	5.40	3.25	0.50	50.04	1.00	0.111	-	0.280	0.494	0.349	-	214	-
Sample 27	AMANGANJ/S.NO. - 43	40.27	5.00	3.30	0.50	50.75	1.00	0.314	-	0.358	0.759	0.317	0.112	232	-
Sample 28	AMANGANJ/BH-2/S-1(2-3M)	24.95	32.80	8.05	2.10	28.80	2.30	0.722	-	0.98	0.336	0.234	0.233	460	-
Sample 29	AMANGANJ/BH-2/S-2(3-4M)	18.66	44.50	12.00	4.10	17.10	2.31	0.791	-	0.26	0.188	0.165	0.254	439	-
Sample 30	AMANGANJ/BH-2/S-3(4-5M)	13.37	51.70	13.90	6.80	10.80	2.39	0.865	-	0.77	0.219	0.096	0.275	767	-

Shalini Ambashita
Chemist

K.C. Bora
Sr. Chemist

Laboratory Incharge
जसराज गहलोत / Jasraj Gehlot
प्रयोगशाला प्रभारी / Laboratory Incharge
एफ सी आरवी गिप्सम एंड मिनेरल्स इंडिया लि.
FCI Aravali Gypsum And Minerals India Ltd.
भारत सरकार का उपक्रम / Govt. of India Undertaking
जबलपुर / Jabalpur

R K C T LABORATORY PRIVATE LIMITED

P-316/3 RAIGWA, PATAN BYPASS ROAD, JABALPUR, MADHYA PRADESH

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Accreditation Certificate No. : TC-17644

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Report Type

TEST REPORT

Issued To

M/s. Engeotech Consultant

Jabalpur, Madhya pradesh

ULR No : TC1764426000000345F

Test Report Issue Date : 14/03/2026

Date of Testing : 14/03/2026

Product / Material of Testing : Rock

Discipline(s) : Mechanical

Group(s) : Soil & Rock



NABL Accredited Lab Scope



Report Verification



RKCT LABORATORY PVT. LTD.

ISO/IEC: 17025 ACCREDITED TESTING LABORATORY BY NABL VIDE CERTIFICATE NUMBER TC-17644
(MECHANICAL TESTING, ELECTRICAL TESTING, CHEMICAL TESTING, FOOD TESTING,
BUILDING MATERIAL TESTING, WATER TESTING, NON DESTRUCTIVE TESTING, ENVIRONMENTAL &
POLLUTION TESTING, TRANSFORMER TESTING, SLAB LOAD & PILE TESTING)

Address : 316/3, Raigwa, Patan Bypass Road, Jabalpur, M.P., 482002

Email : Info@rkcc.in, rkctlaboratory@gmail.com , Web : www.rkcc.in

Contact : Toll Free No : 18002338844, 7828205137 (O)



Test Report

SRF No.	: 040, dated 13.03.2026	Description of Sample	: Rock
Agreement No.	: NA	Discipline: - Mechanical	Group: Soil & Rock
Ref. No.	: ENGCG/01/2026, dated 12.03.2026	Packing When received	: Plastic Bag
Name of Agency	M/s. Engeotech Consultant, 1338, Vijay Nagar, Jabalpur (M.P.)	Sample Submitted by	: Agency
Project name & Location	Testing of rock samples for density for Reconnaissance Survey (G-4 Stage) for Limestone in and around Amanganj- Gunnor-Pawai Area, Panna District, Madhya Pradesh Area- 93.13 Sq. km.	Quantity when received	: 05 Nos.
		Temperature: - 27°C	Humidity: 63%
		Date of Sample Received	: 13.03.2026
		Date of Test Start	: 13.03.2026
		Date of test Completion	: 14.03.2026
		Date of Report Issue	: 14.03.2026

TEST RESULTS ARE REPORTED AS BELOW

S. No.	Sample ID	Test parameter	Units of measurement	Test result	Test method
1	AMANGANJ/BD/S-1	Dry Density	kg/m ³	2600	IS:13030: 1991, RA-2016
2	AMANGANJ/BD/S-2			2500	
3	AMANGANJ/BD/S-3			2550	
4	AMANGANJ/BD/S-4			2500	
5	AMANGANJ/BD/S-5			2600	

*****End of the Report*****

Reviewed by
Name: Neelesh Patel
Designation: TM

mark: -

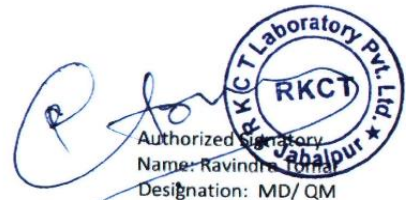
laboratory is not responsible for the information supplied by the customer.

Page 2 of 2
This report is only valid for sample tested.

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REPORT

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PETROGRAPHIC STUDY

REPORT NO.	ENGT/PS/2025/26
SAMPLE NO.	S-20 (BRS)
LOCATION	Amanganj-Gunnor-Pawai Limestone Block Tehsil - Amanganj District - Panna Area - 93.13 Sq.KM.
PHYSICAL PROPERTIES	1. Color - Grey 2. Form - Massive 3. Grain size - Fine Grain 4. Texture - Non-clastic 5. Hardness - 3.5 -4
MINERAL COMPOSITION	1. Calcite: 68 - 83% 2. Clay Mineral: 6 - 9% 3. Quartz: 4 - 7% 4. Opaque: 0.50 -1%
TYPE OF ROCK	Sedimentary Rock
NAME OF THE ROCK	Grey Limestone
REMARKS	(Limestone of Sirbu Formation of Vindhyan Supergroup)

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INDRANIL DAWANDE
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Sample No. S-20 (PPL)

The Limestone under thin section, under PPL (Plane polarized light).

The following features observed:

Rock is Limestone (Limestone of Sirbu Formation of Vindhyan Supergroup)

Texture – Microcrystalline to sparry texture. Bio-clastic/ allochemical texture noticed, poor to moderate sorting grain supported to partially matrix supported fabric mineralogical composition dominantly calcite (CaCO_3). Presence of micrite (microcrystalline calcite as matrix). Sparry Calcite cement in voids/fracture. Minor opaque minerals (black spots) component (allochems) Possible bioclasts or fossil fragments (irregular rounded structure). Some intraclasts fragments/peloidal intraclasts fragments present. One rounded dark grain may represent peloid or opaque inclusion.

Cement - Sparry Calcite cement filling pores and fractures.

Diagnostic feature - Recrystallisation of micrite to microspar vein/fracture filling by calcite.

At places slight compaction effects possible pressure solution feature (irregular boundaries).

Porosity - Very low primary porosity and secondary porosity partly filled by calcite cement.

Other observation cloudy appearance due to micrite and patchy distribution of sparry calcite. No strong colour variation in PPL (typical of calcite).

Interpretation: Deposited in a shallow marine environment low to moderate energy condition.

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XPL sample – 20

Rock thin section under crossed Nicola (XPL)

Thin section shows a carbonate – Dominated rock with predominance of calcite.

Mineralogical & optical features –

Calcite (dominant): Displays high order interference colour (bright pastel shades typical of calcite). Well-developed polysynthetic twinning clearly visible (distinct lamellae in central grains). It occurs both micrite (both fine grained) and sparite (coarser crystalline calcite). At places dolomite occurs as a minor it shows slightly lower birefringence than calcite.

Opaque minerals: Scattered black spots indicating minor opaques (possibly iron oxide).

Texture: Predominantly micritic matrix with patches of sparry calcite cement.

Recrystallisation evident – Micrite partially converted to sparite. Mosaiced texture in coarser patches.

Diagenetic feature: Calcite cementation and recrystallisation are prominent. Twinned calcite indicates strain or diagenetic alteration. Minor voids or pores filled with sparite.

Interpretation: It is deposited in a shallow marine environment subsequent diagenesis (recrystallisation and cementation).

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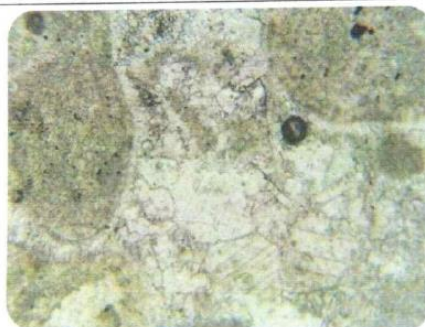
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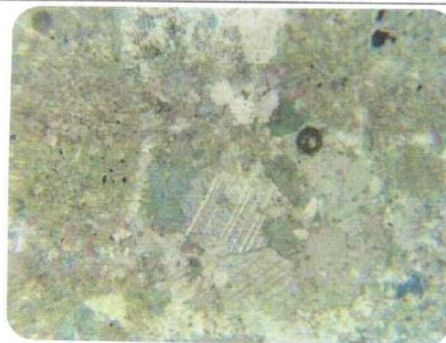
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Hand Specimen



Under plane-polarized light (PPL) in showcases fine Micritic calcite.



At some places parallel cleavage notice.

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PETROGRAPHIC STUDY

REPORT NO.	ENGT/PS/2025/27
SAMPLE NO.	S-21 (BRS)
LOCATION	Amanganj-Gunnor-Pawai Limestone Block Tehsil - Amanganj District - Panna Area - 93.13 Sq.KM.
PHYSICAL PROPERTIES	1. Color - Grey 2. Form - Massive 3. Grain size - Fine to Medium grain 4. Texture - Non-clastic 5. Hardness - 3 - 4
MINERAL COMPOSITION	1. Calcite: 85- 95% 2. Clay Mineral: 3- 4% 3. Quartz: 1 -2 % 4. Opaque: 0.50 -1%
TYPE OF ROCK	Sedimentary Rock
NAME OF THE ROCK	Limestone
REMARKS	(Limestone of Sirbu Formation of Vindhyan Supergroup)


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PPL Sample no 21

The limestone thin section study reveals that under PPL (plane polarised light, Limestone) it shows light grade to buff coloured carbonate shale dominated by fine grained constituent. The textures appear uniform with occasional darker patches and faint liner features.

Mineralogical composition: Predominantly calcite (micrite dominant) minor-sparry calcite in patches and veins. Opaque mineral (very fine, scattered) possible trace of clay/ argillaceous material.

Texture: Micritic texture very fine-grained carbonate matrix, locally shows recrystallization of micro-spar overall homogeneous with minor heterogeneity.

Grain size: Very fine grained (micrite dominant) occasional slightly coarser recrystallised patches.

Fabric structure: Massive appearance presence of thin veins/ fracture (seen on earlier features on left side) likely filled with iron-stained calcite or impurities.
Weakly developed patches modelling due to diagenetic alteration.

There is no fossil fragments visible in the section.

Diagenetic features: Micritization dominant recrystallization to micro-spar in patches. Vein formation (possibly calcite filled fractures) minor iron staining along the fracture noticed.

Porosity: Very low to negligible primary porosity largely obtained by cementation.

Interpretation: The rock represents a micritic limestone deposited in a low energy marine environment. Subsequent diagenesis leads to recrystallization and fractures filling.

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XPL Sample no 21

Thin section of limestone under crossed (XPL) Nicols -

Mineralogical composition: The rock is dominantly comprised of calcite (85 to 95%) with minor impurities of quartz and opaque minerals. Calcite occurs mainly as microcrystalline to sparry aggregate.

Texture : The rock shows a micritic to microsparitic texture with patches of recrystallization forming sparry calcite. Grain size is very fine to fine. The texture is mostly homogeneous through locally patchy due to diagenetic effect. The fabric is massive and non-oriented, typical of carbonate rock. No preferred alignment of grains is observed. At places granoblastic massive texture due to the recrystallisation.

Optical properties (XPL): Calcite grains exhibit high order interference colour (bright pastel shades), through somewhat subdued due to fine grain size.

Twinning in calcite faintly visible in coarse sparry patches. Micrite appears relatively dull under XPL compared to sparry calcite. Quartz grains (minor) show low order grey interference colours.

Diagenetic features: Recrystallisation is prominent, converting micrite to micro-spar. Presence of vein/ fracture filling by sparry calcite (visible as linear feature on left side), minor compaction feature and possible pressure solution effects. No fossil remains noticed.

Porosity: Very low primary porosity; any secondary porosity is mostly occluded by calcite cement.

The limestone represents a chemically precipitated or fine-grained carbonate sediment, subsequently affected by diagenesis (recrystallization and vein formation).

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Hand Specimen



Under plane-polarized light (PPL) in showcases fine Micritic calcite.



Under crossed Nicol (XPL) at some places fractures are notice.

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PETROGRAPHIC STUDY

REPORT NO.	ENGT/PS/2025/28
SAMPLE NO.	S-33 (BRS)
LOCATION	Amanganj-Gunnor-Pawai Limestone Block Tehsil - Amanganj District - Panna Area - 93.13 Sq.KM.
PHYSICAL PROPERTIES	1. Color - Grey 2. Form - Massive 3. Grain size - Fine to Medium grain 4. Texture - Non-clastic 5. Hardness - 3 - 4
MINERAL COMPOSITION	1. Calcite: 75 - 85% 2. Insoluble Residue (Clays/Oxides): Clay Mineral: 5- 8% 3. Quartz: 3- 7% 4. Opaque: 0.50 -1%
TYPE OF ROCK	Sedimentary Rock
NAME OF THE ROCK	Limestone
REMARKS	(Limestone of Sirbu Formation of Vindhyan Supergroup)

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Sample No S-33 (PPL)

Thin section of limestone from the Amanganj area studied under plane polarized light. It shows a fine-grained carbonate rock dominated by micrite with numerous allochems. The overall appearance is grey to brown, with variations due to presence of different constituents. Peloids are the most abundant allochems, appearing as rounded to surrounded structureless, brownish micritic grains. These grains lack internal structure and are uniformly distributed within matrix, indicating micritization. Bioclastic fragments are present in moderate amounts. These appeared on regular to elongated grains, slightly darker or similar in tone to matrix. Many of these shows poor preservation with internal features observed due to micritization and recrystallization. A few interclasts are also noticed as irregular micritic fragments, suggesting reworking of earlier formed carbonate material.

The matrix is predominantly micrite appearing dull grey to brown and very fine grained, enclosing the allochems and forming the main ground mass. Sparry calcite cement is visible as transparent patches filling voids, intergranular spaces and fractures at places fractures with coarse crystalline calcite.

The rock exhibits a wackstone to packstone texture with areas showing matrix supported fabric and other they are showing partial grain support.

Grains are fine to medium in size, poorly to moderate sorted and mostly sub rounded.

Digenetic texture (PPL): micritization of allochem is well developed and recrystallization of micrite to microspar in patches. Fractured followed by calcite cementation compaction effect visible as grain contacts and breakage.

This thin section under PPL represents a micrite rich peloidal-bioclastic limestone with wackstone to packstone fabric affected by diagenetic processes like micritization and calcite cementation.

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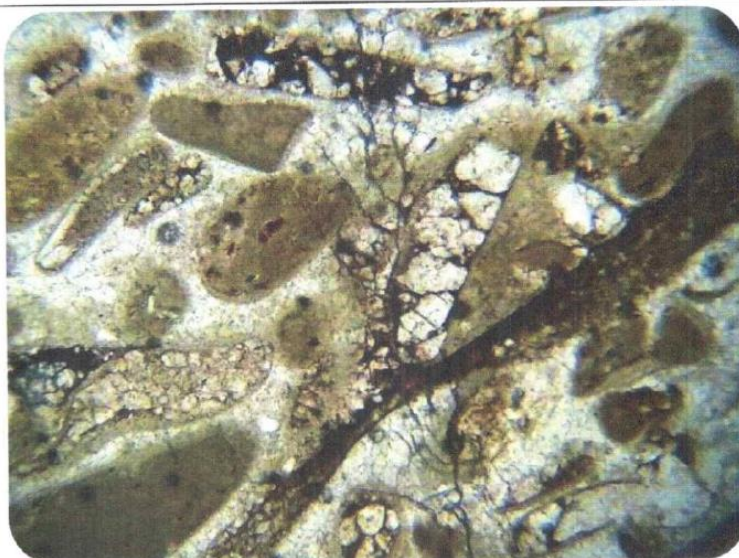


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Under plane-polarized light (PPL)



Under crossed polarized light (XPL) at some original micritic matrix has notice & concentric layers of calcite like oolitic limestone.

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PETROGRAPHIC STUDY

REPORT NO.	ENGT/PS/2025/29
SAMPLE NO.	S-35 (BRS)
LOCATION	Amanganj-Gunnor-Pawai Limestone Block Tehsil - Amanganj District - Panna Area - 93.13 Sq.KM.
PHYSICAL PROPERTIES	1. Color - Grey 2. Form - Massive 3. Grain size - Fine to Medium grain 4. Texture - Non-clastic 5. Hardness - 3 - 4
MINERAL COMPOSITION	1. Calcite: 65 - 84% 2. Clay Mineral: 5- 8% 3. Quartz: 4 - 7% 4. Opaque: 0.50 -1%
TYPE OF ROCK	Sedimentary Rock
NAME OF THE ROCK	Limestone
REMARKS	(Limestone of Sirbu Formation of Vindhyan Supergroup)

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PPL Sample No 35

In thin section of limestone show a carbonate rock dominated by sparry calcite with patches of micritic matrix. The rock exhibits a fracture-controlled fabric where voids and cracks are filled with secondary calcite. Overall texture suggests a recrystallized limestone with partial preservation of original features.

Constituents:

- a. Carbonate mineral: Dominantly calcite present as sparry calcite (sparite) which is coherentized by coarse, clear crystalline mosaic filling fractures/veins.
Micrite: Fine grained, brownish matrix surrounding spur filled zones.
- b. Allochems: Poorly preserved indistinct due to recrystallization possible faint outlines of bioclasts/peloids visible but not clearly identifiable.
- c. Cement: Secondary calcite cement prominently fills fractures and cavities, it shows equal crystalline texture indicating later stage diagenesis.
- d. Accessory Material: Minor opaque grains and impurities scattered within the matrix

Texture: Recrystallized texture with sparitic dominance texture / vein filling texture prominent. Locally appears wade stone to rock stone relics.

Diagenesis: Recrystallization: micrite transformed into sparry calcite fracturing and veining is characterized as development of cracks later filled by calcite.

Cementation: Secondary calcite precipitation in void. Hence the rock limestone has undergone significant diagenetic alteration especially recrystallization and fracture filling calcite. The original depositional features are mostly destroyed, but remnants suggest a low to moderate energy carbonate depositional environment.

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XPL Sample No 35

The thin section of lime stone under XPL shows a carbonate rock characterized as calcite forming mosaic of interlocking crystals. The rock exhibits a vein like or fracture-controlled zone filled with sparry calcite, indicating secondary mineralization. Overall texture suggests a recrystallized limestone with localized deformation features.

Mineralogical Composition: Calcite (dominant): Displays high order interference color (bright white to pastel shades) typical under XPL. It occurs as coarse, equigranularity to subhedral crystals forming a mosaic texture.

Opaque Minerals / Impurities (minor) – it appears a dark specks and streaks, possible iron oxides or organic matter.

Micritic Matrix (minor relics)- Fine grained carbonate seen along the margins indicating partial preservation of original limestone fabric.

Texture- Sparry calcite texture: - Coarse crystalline calcite filling fractures/ voids

Granoblastic Mosaic: Interlocking crystals calcite crystals indicating recrystallization.

Fracture-Filling Fabric: It suggests secondary deposition of calcite along the cracks

Petrogenetic Fractures: Variation between coarser spar and fine micritic zones.

Digenetic Features: Recrystallization: - Conversion of micrite to sparry calcite.

Vein formation: Calcite veins cutting across the earlier fabric.

Important Consideration: It occurs along fractures or stylolitic seams. It is concluded that it is recrystallized limestone with calcite veins development, likely formed due to post depositional digenetic process where original textures are largely altered by secondary calcite crystallization. It is possible linked to tectonic activities.

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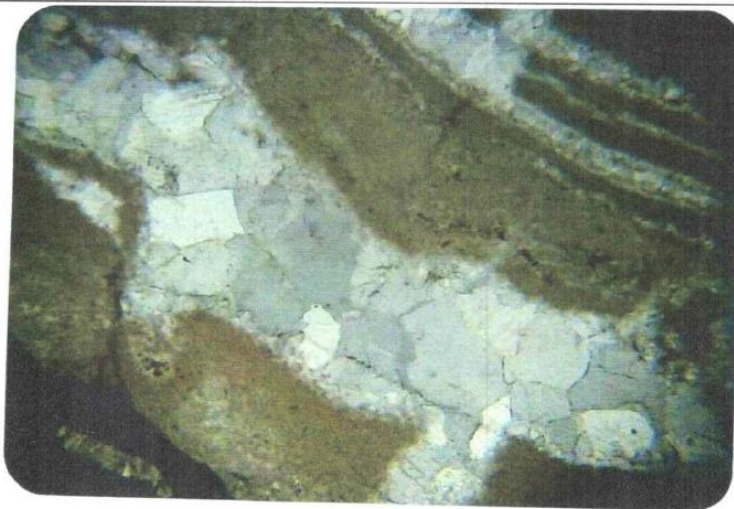
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Photomicrograph under plane-polarized light (PPL) in showcases fine Micritic calcite.



At some original micritic matrix has recrystallized into a coarser mosaic of interlocking calcite crystals notice.

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PETROGRAPHIC STUDY

REPORT NO.	ENGT/PS/2025/30
SAMPLE NO.	S-38 (BRS)
LOCATION	Amanganj-Gunnor-Pawai Limestone Block Tehsil - Amanganj District - Panna Area - 93.13 Sq.KM.
PHYSICAL PROPERTIES	1. Color - Grey 2. Form - Massive 3. Grain size - Fine to Medium grain 4. Texture - Non-clastic 5. Hardness - 3 - 4
MINERAL COMPOSITION	1. Calcite: 70 - 85% 2. Clay Mineral: 4- 9% 3. Quartz: 4 - 7% 4. Opaque: 0.50 -1%
TYPE OF ROCK	Sedimentary Rock
NAME OF THE ROCK	Limestone
REMARKS	(Limestone of Sirbu Formation of Vindhyan Supergroup)

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PPL Sample No 38

Thin section of Limestone of Amanganj area represents fine to medium grained carbonate rock showing a mud supported to partially grain supported to partially grain supported fabric. The rock is predominantly composed of micrite matrix with scattered allochems, indicating wade stone to pedistone. Overall, the fabric suggests deposition under low to moderate energy conditions.

Constituents:

(a) **Matrix (micrite):** Dominant component appearing as dull mass supporting allochems.

Allochems: Sparse to moderate presence of bioclasts and peloids. Bioclasts are poorly present and micritized. Peloids grains are sub rounded to rounded, fine sized.

Cement: Minor sparry calcite cement observed locally in intergranular spaces.

Opaque Minerals: Disseminated iron oxides / organic matter present as dark patches and spaces.

Texture: Wade stone to pack stone, poor to moderate sorting of allochems. Grain are mostly subrounded to irregular. Matrix supported fabric dominates.

Diagenetic Features: Micritization of allochems in prominent local recrystallization of matrix to microspar observed. Minor compaction texture is present. Iron staining indicates post depositional alteration. Hence it is concluded the limestone was likely deposited in a shallow marine low energy environment.

Office : ENGEOTECH CONSULTANT

1338, First Floor, Vijay Nagar, Kachnar City Road, Jabalpur - 482002 (M.P.) TEL/FAX - 0761 - 3591305
Mobile : +91 - 9425387402, 9399968717. E-mail: engeotech@rediffmail.com



ENGEOTECH CONSULTANT

TECHNO - ANALYTICAL SERVICES UNDER ONE ROOF
(ISO 9001:2015 CERTIFIED)

OUR SERVICES :-

- ★ CONVENTIONAL CORE DRILLING
- ★ SAMPLING AND RACK LOADING SUPERVISION
- ★ ANALYSIS OF MINERALS & ORES
- ★ DGPS / TST SURVEY
- ★ MINING PLAN & MINES EVALUATION

XPL Sample No 38

Thin section of limestone study reveals that fine to medium grained carbonate rock exhibiting a predominantly granular to mosaic texture. The rock shows moderate recrystallization with original texture partially obliterated. The overall fabric suggests transition from mud-supported to grain-supported texture, indicating it comes between wackstone and packstone.

Mineralogical composition: Calcite: Dominant mineral present as sparry and micro-sparry calcite showing bright interference color under XPL.

Dolomite (Minor): At places occasionally seen.

Opaque Minerals: Scattered appearing as dark patches.

Silicious impurities: Minor occurring as fine disseminated grains.

Texture and Fabric textures: Granoblastic to mosaic due to recrystallization.

Grain size: Fine to medium crystalline.

Sorting: Poor to Moderate

Roundness: Sub angular to Sub rounded grain.

Fabric: Partially recrystallized, original allochem not well preserved.

Diagnostic features: Recrystallization prominent, leading to formation of sparry calcite patches.

Cementation: Calcite cement well developed.

Micritization: Minor traces may be present.

Compaction: Evident from grain contacts and reduced pore spaces.

Porosity: Secondary porosity (veins/ microfractures) : Pores are filled with calcite.

Hence rock represents recrystallized carbonate Limestone deposited in a low to moderate energy, shallow marine environment subsequent diagenesis recrystallization and cementation modified the original texture.

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Photograph of Hand Specimen



Photomicrograph under plane-polarized light (PPL) in showcases fine Micritic calcite.



At some original micritic matrix has recrystallized into a coarser mosaic of interlocking calcite crystals notice

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D.G.P.S. SURVEY REPORT

FOR

**BLOCK BOUNDARY POINT FIXATION OF AMANGANJ, GUNNOR AND PAWAI
LIMESTONE BLOCK**

VILLAGE: - MAHEBA, PATNA KHURD, SANOURA, PALKA KALA, KHAMARIYA CHHIGAMMA, DIGHAURA, ANTARBINDIYA, BILHAI RAMNAGAR, KOT, BARHA KHURD, CHOUDA, JUDI TAPE MAHEBA, HIRAPUR, BIHASAR, SINGHASAR, GHAT SIMARIYA, NAIGWAN, PURAINA, MAJHYARI KALAN, MADHA, SARWARA, SATHANIYA, MAHUWA KHERA, SAHILWARA, GABHAURA, SANOURA, SALGADHA, SUHJANI, PALKA KALA, CHAURA, KHALPURA, TIKARIYA, KHAMARIYA, IMLIA.

TEHSIL- AMANGANJ, GUNNOR & PAWAI, DISTRICT-PANNA, STATE- MADHYA PRADESH,
DGPS SURVEYED AREA- 93.13 KM²



SURVEYED BY

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ANNEXURES

<i>S. NO.</i>	<i>MAP</i>	<i>ANNEXURE</i>
1.	Google Imagery Showing Block Boundary of Amanganj, Gunnor and Pawai Limestone Block.	Map 1

1. INTRODUCTION & OBJECTIVE

1.1 INTRODUCTION

The DGPS Survey of Amanganj, Gunnor and Pawai Block Boundary has been conducted from 26/08/2025 to 04/09/2025 in the presence of survey team of Engeotech Consultant, Jabalpur (M.P.).

1.2 OBJECTIVE

The main objective of the DGPS survey of the Block area is to fix boundary point on field area so it provides an identical coordinate point to a different particular Block area and it minimize the land disputed problems and fix an accurate area and dimension of the Block. The conventional methods of survey to delineate and demarcate the Block area which are time consuming. Further, the conventional surveys are “Unprojected” Surveys, hence linking them to geospatial domain is a challenging task. The modern survey technique using Differential Global Positioning System (DGPS) bring efficacy in survey in shorter time span compared to old method of survey and record preparation. The combination of GIS and GPS activities play a crucial role in developing the survey of the Block area boundary points and making Google maps. Area, length & other measures in the GIS numerical database are considerably easy to compute and correlate with already available data.

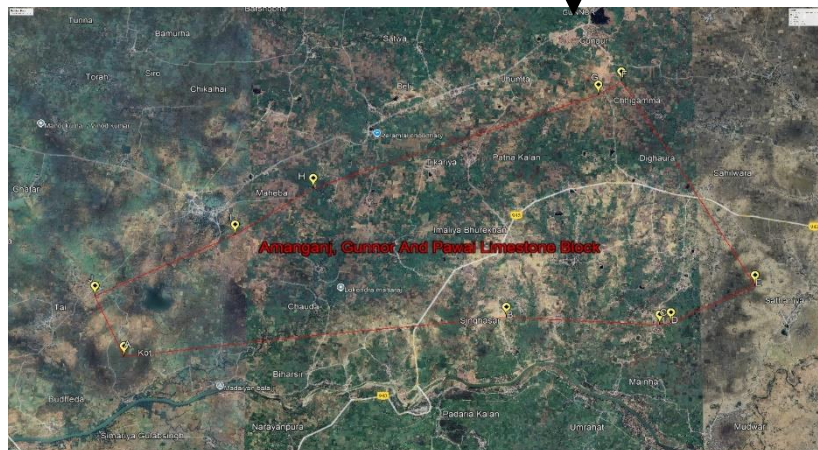
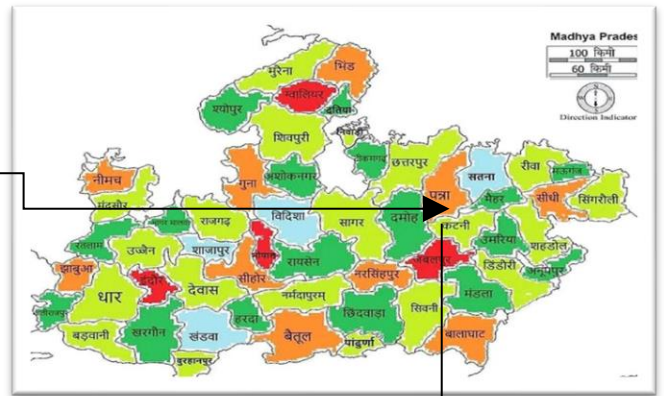
2. LOCATION

The DGPS Surveyed is situated in Village Maheba ,Patna Khurd , Sanaura, Palka Kala , Khamariya Chhigamma, Dighaura, Antarbindiya, Bilhai Ramnagar, Kot, Barha Khurd, Chouda, Judi Tape Maheba, Hirapur, Bihasar, Singhasar, Ghat Simariya, Naigwan, Puraina, Majhyari Kalan, Madha, Sarwara, Sathaniya, Mahuwa Khera, Sahilwara, Gabhaura, Sanoura, Salgadha, Suhjani, Palka Kala, Chaura, Khalpura ,Tikariya, Khamariya, Imlia. Tehsil- Amanganj, Gunnor And Pawai District- Panna (M.P.). It is located about 35 km (Aerial Distance) towards South Direction of District Panna (M.P.). The Surveyed Area Is Bounded By -

Latitudes - 24° 21' 26.0255" N - 24° 26' 17.2038" N

Longitudes - 80° 06' 09.7290" E - 80° 17' 46.0408" E

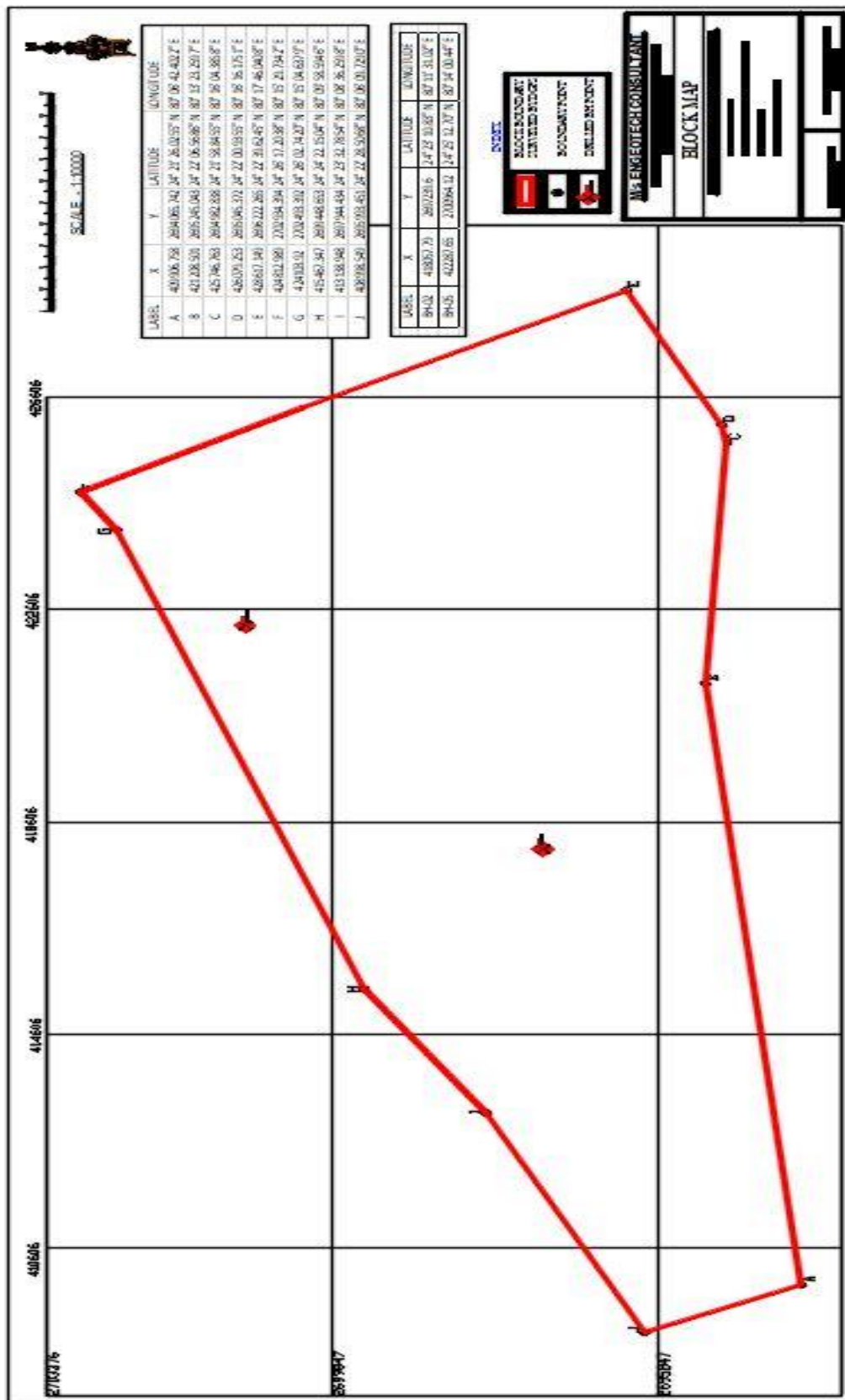
The Surveyed Comes Under Village Maheba ,Patna Khurd , Sanaura, Palka Kala , Khamariya Chhigamma, Dighaura, Antarbindiya, Bilhai Ramnagar, Kot, Barha Khurd, Chouda, Judi Tape Maheba, Hirapur, Bihasar, Singhasar, Ghat Simariya, Naigwan, Puraina, Majhyari Kalan, Madha, Sarwara, Sathaniya, Mahuwa Khera, Sahilwara, Gabhaura, Sanoura, Salgadha, Suhjani, Palka Kala, Chaura, Khalpura Tikariya ,Khamariya, Imlia. Tehsil Amanganj, Gunnor And Pawai, District Panna (M.P.). The Total DGPS Surveyed Area is 93.13 KM².



2.1. LOCATION MAP

AMANGANJ IS APPROXIMATELY 352 KM. AWAY FROM STATE CAPITAL BHOPAL.





Sanctioned Area Map

4. PROCEDURE FOR SURVEY

4.1 Establishment of Primary Control Point:

Based On the Input Data and Information Provided by The DGPS Base Station (Primary Control Point) Near the Survey Area Has Planned. So, Five Base Station Established Near the Amanganj, Gunnor And Pawai Limestone Block is situated in Village - Maheba, Patna Khurd, Sanaura, Palka Kala, Khamariya Chhigamma, Dighaura, Antarbendiya, Bilhai Ramnagar, Kot, Barha Khurd, Chouda, Judi Tape Maheba, Hirapur, Bihasar, Singhasar, Ghat Simariya, Naigwan, Puraina, Majhyari Kalan, Madha, Sarwara, Sathaniya, Mahuwa Khera, Sahilwara, Gabhaura, Sanoura, Salgadha, Suhjani, Palka Kala, Chaura, Khalpura , Tikariya, Khamariya, Imlia. Tehsil - Amanganj, Gunnor and Pawai, District - Panna (M.P.).

Co-ordinate of the Primary Control Point:

POINT NAME	LONGITUDE			LATITUDE			UTM Co-ordinates (WGS84)	
	D	M	S	D	M	S	Easting (X)	Northing (Y)
BASE1	80	06	44.86	24	22	09.88	409984.63 E	2695414.17 N
BASE2	80	13	23.61	24	22	26.78	421221.85 E	2695866.63 N
BASE3	80	16	37.75	24	22	42.02	426693.68 E	2696305.83 N
BASE4	80	15	19.58	24	25	03.38	424514.86 E	2700665.31 N
BASE5	80	08	45.45	24	24	25.94	413407.89 E	2699577.75 N

4.2 DGP Survey of Block Boundary:

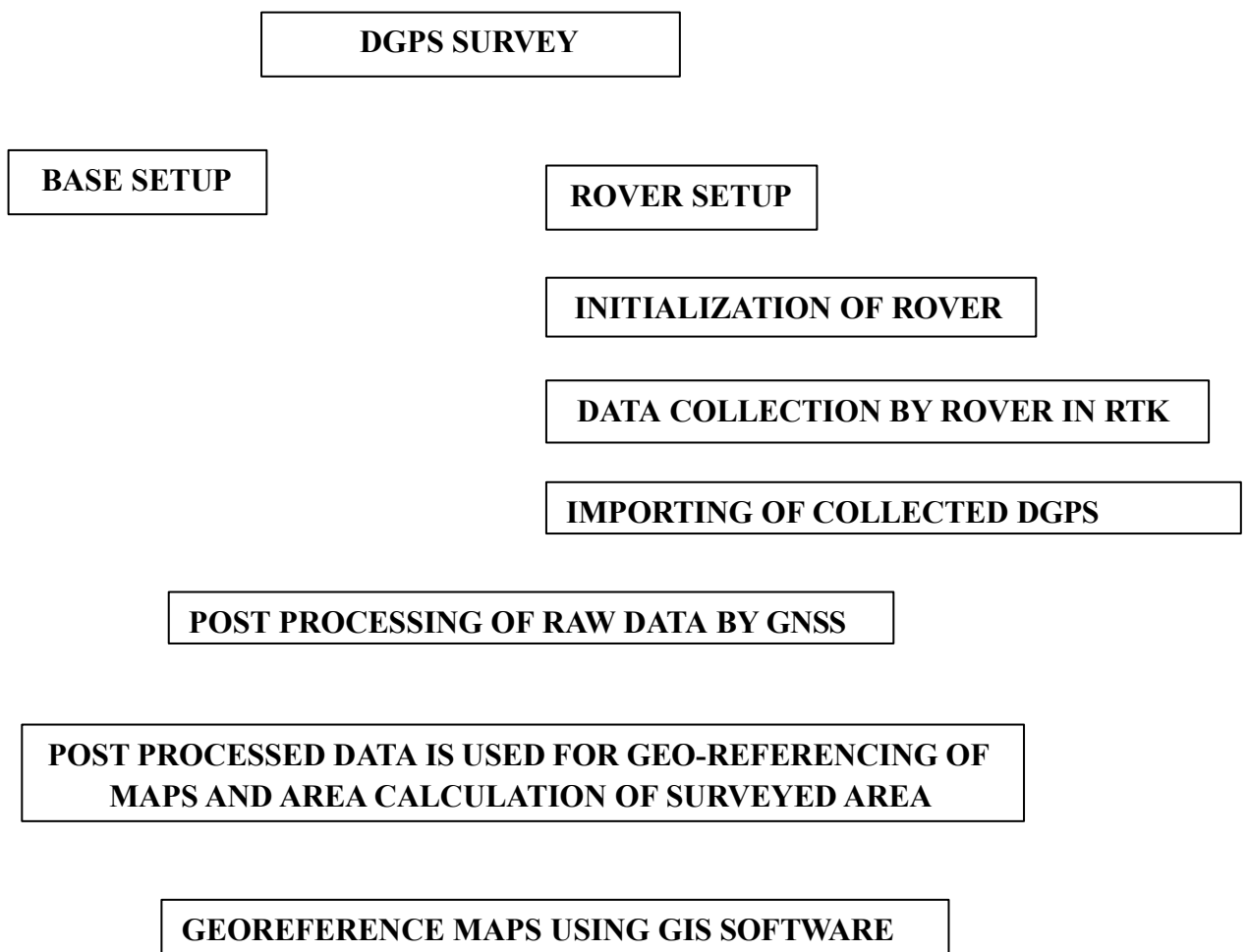
DGPS survey was carried out using a pair of DGPS instrument. One DGPS Instrument was used as Base Station and the other DGPS instrument was working as Rover. Base station fixes at a stationary position while the Rover move by the survey team by walking along the Block Boundary and collect a survey point on each and every turn or bend from each point of the Block Boundary. The distance between the Base Station and rover was always less than 3 km. The survey was

conducted in Real Time Kinematic (RTK) mode.

4.3 Geo-referencing of Map:

Maps like Google map, GOOGLE Imagery etc. in which Block Boundary falls are Geo referencing by collected minimum four or more DGPS referenced point on survey field area for geo referencing of map it is necessary that this referenced point location is also show in maps. In GIS software on the bases of this collected survey point, map is registered by input the four or more different coordinate value (WGS 84 Datum) of the survey point on definite location mark on map and after the minimize of whole error creating during geo referencing the map finally the map is geo referenced and Mine Block boundary vector in the form of shape file has been prepared.

4.1 FLOW CHART OF DGPS SURVEY PROCEDURE



**SUPERIMPOSITION OF OUTPUT FILE ON
GEOREFERENCE VECTORIZED MAPS**

**PREPARE MAP, DETAILS, SHAPE FILE AND KML OF THE SURVEYED
AREA IN GIS AND AUTOCAD SOFTWARE, PREPARE FILE**

**COMPILE ALL DATA AND PREPARE DGPS
SURVEY REPORT**

4. SPECIFICATION OF DGPS EQUIPMENT

We deployed a high performance GNSS board 600 channels and capable of supporting multiple satellite constellations devices to carry out the DGPS survey. The technical specification is given below

Leica Viva GS14

Data sheet



Easy-to-use software

The compact and powerful Leica Viva GS14 smart antenna is equipped with the intuitive SmartWorx Viva software. With clear graphics, practical menu structures, understandable terminology and simplified workflows, save time and effort on any site. SmartWorx Viva is incredibly easy to learn and use. You and your field crew will be up to speed in no time.



Infinitely bridging the field to the office

Leica Infinity imports and combines data from your GNSS, total station and level instruments for one final and accurate result. Processing has never been made easier when all your instruments work in tandem to produce precise and actionable information.

ACC»

Customer care only a click away

Through Active Customer Care (ACC), a global network of experienced professionals is only a click away to expertly guide you through any problem. Eliminate delays with superior technical service, finish jobs faster with excellent consultancy support, and avoid costly site revisits with online service to send and receive data directly from the field. Control your costs with a tailored Customer Care Package, giving you peace of mind you're covered anywhere, anytime.

Leica Viva GS14

GNSS PERFORMANCE

GNSS technology	Leica SmartTrack	Advanced four constellation tracking
Leica SmartCheck	Continuous check of RTK solution	Reliability 99.99%
Signal tracking		GPS (L1, L2, L2C), Glonass (L1, L2), BeiDou (B1, B2), Galileo (E1, E5b), SBAS (WAAS, EGNOS, MSAS, GAGAN)
Number of channels		120 (up to 60 satellites simultaneously on two frequencies)

MEASUREMENT PERFORMANCE & ACCURACY¹

Time for initialisation		Typically 4 s
Real-time kinematic	Single baseline Network RTK	Hz 8 mm + 1 ppm / V 15 mm + 1 ppm Hz 8 mm + 0.5 ppm / V 15 mm + 0.5 ppm
Post processing	Static (phase) with long observations Static and rapid static (phase)	Hz 3 mm + 0.1 ppm / V 3.5 mm + 0.4 ppm Hz 3 mm + 0.5 ppm / V 5 mm + 0.5 ppm
Code differential	DGPS / RTCM	Typically 25 cm

COMMUNICATIONS

Communication ports	Lemo Bluetooth®	USB and RS232 serial Bluetooth® v2.00 + EDR, class 2
Communication protocols	RTK data protocols NMEA output Network RTK	Leica, Leica 4G, CMR, CMR+, RTCM 2.2, 2.3, 3.0, 3.1, 3.2 MSM NMEA 0183 V 4.00 and Leica proprietary VRS, FKP, iMAX, MAC (RTCM SC 104)
Built-in data links	3.75 G GSM / UMTS / CDMA phone modem Radio modem	Fully integrated, internal antenna Fully integrated, receive and transmit, external antenna 403 - 470 MHz, 1 W output power
External data links		GSM / GPRS / UMTS / CDMA and UHF / VHF modem

GENERAL

Field controller and software	Leica SmartWorx Viva software	Leica CS10 and CS15 field controller
User interface	Buttons and LEDs Web server	On / Off and Function button, 7 status LEDs Full status information and configuration options
Data recording	Storage Data type and recording rate	Removable microSD card, 8 GB Leica GNSS raw data and RINEX data at up to 20 Hz
Power management	Internal power supply External power supply Operation time ²	Exchangeable Li-Ion battery (2.6 Ah / 7.4 V) Nominal 12 V DC, range 10.5 - 28 V DC 7 h receiving (Rx) data with internal radio, 5 h transmitting (Tx) data with internal radio, 6 h Rx/Tx data with internal modem
Weight and Dimensions	Weight Diameter x Height	0.93 kg (GS14) / 2.90 kg standard RTK rover setup on pole 190 mm x 90 mm
Environmental	Temperature Drop Proof against water, sand and dust Vibration Humidity Functional shock	-40 to 65°C operating, -40 to 80°C storage Withstands topple over from a 2 m survey pole onto hard surfaces IP68 (IEC60529 / MIL STD 810G 506.5 I / MIL STD 810G 510.5 I / MIL STD 810G 512.5 I) Withstands strong vibration (ISO9022-36-08 / MIL STD 810G 514.6 Cat.24) 100% (ISO9022-13-06 / ISO9022-12-04 / MIL STD 810G 507.5 I) 40 g / 15 to 23 msec (MIL STD 810G 516.6 I)

LEICA VIVA GS14 - GNSS SMART ANTENNA	Performance	Professional
SUPPORTED GNSS SYSTEMS		
Dual frequency	✓ / ✓	✓ / ✓
GPS / GLONASS / Galileo / BeiDou	✓ / • / • / •	✓ / ✓ / ✓ / ✓
RTK PERFORMANCE		
DGPS/RTCM, RTK Unlimited, Network RTK	✓	✓
POSITION UPDATE & DATA RECORDING		
5 Hz / 20 Hz positioning	✓ / ✓	✓ / ✓
Raw data / RINEX data logging	✓ / •	✓ / ✓
NMEA out	•	✓
ADDITIONAL FEATURES		
RTK reference station functionality	✓	✓
3.75G or CDMA Phone / UHF Radio (receive & transmit) modem	✓ / •	✓ / •

✓ Standard

• Optional

¹ Measurement precision, accuracy, reliability and time for initialisation are dependent upon various factors including number of satellites, observation time, atmospheric conditions, multipath etc. Figures quoted assume normal to favourable conditions. A full BeiDou and Galileo constellation will further increase measurement performance and accuracy.

² Might vary with temperature, age of battery, transmit power of data link device.

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www.leica-geosystems.com



- when it has to be **right**

Leica
Geosystems

After DGPS Survey of Amanganj, Gunnor and Pawai Limestone Block Boundary the total land area demarcated as 93.13 KM².

4.1 DGPS SURVEYED BOUNDARY CO-ORDINATES OF BLOCK

BP NO.	UTM CO-ORDINATES		GEOGRAPHICAL CO-ORDINATES	
	X	Y	LATITUDE	LONGITUDE
A	409906.758	2694065.742	24° 21' 26.0255" N	80° 06' 42.4022" E
B	421208.501	2695245.043	24° 22' 06.5686" N	80° 13' 23.2597" E
C	425746.763	2694982.838	24° 21' 58.8455" N	80° 16' 04.3858" E
D	426079.253	2695045.372	24° 22' 00.9355" N	80° 16' 16.1751" E
E	428617.149	2696222.265	24° 22' 39.6245" N	80° 17' 46.0408" E
F	424812.989	2702934.394	24° 26' 17.2038" N	80° 15' 29.7342" E
G	424103.92	2702493.392	24° 26' 02.7420" N	80° 15' 04.6379" E
H	415467.347	2699448.653	24° 24' 22.1504" N	80° 09' 58.5946" E
I	413138.948	2697944.434	24° 23' 32.7854" N	80° 08' 36.2598" E
J	408998.549	2695993.451	24° 22' 28.5068" N	80° 06' 09.7290" E

8 PHOTOGRAPHS OF DGPS SURVEY WORK



BP- E

COORDINATE $-24^{\circ} 22' 39.6245''$ N, $80^{\circ} 17' 46.0408''$ E



9.EMPANELMENT LETTER OF STATE GOVERNMENT

संचालनालय
भौमिकी तथा खनिकर्म, मध्यप्रदेश
29 ए, खनिज भवन, अरेरा हिल्स, भोपाल
फोन एवं फेक्स-फेक्स-0755-2551795
Email- dirgeomn@nic.in

//आदेश//

क्रमांक- 12034/1279356/2023/12/1- प्रदेश में स्वीकृत खनि रियायतों एवं नवीन खनिजधारी क्षेत्रों का डी.जी.पी.एस. तथा टोटल स्टेशन सर्वे कार्य को करने हेतु, एतद्वारा निम्नानुसार एजेंसीयों को सूचीबद्ध किया जाता है। 11/9/23

No	Agency	Address
1	Apex Mintech Consultants	3, Dhebar Colony, Near ITI Pratap Nagar, Udaipur, Rajasthan, PIN-313001
2	Engeomin Consultant	1254, Vivekanand Ward, Daya Nagar, Jabalpur (MP)
3	Engeotech Consultant	1338, First Floor, Vijay Nagar, Jabalpur Madhya Pradesh, PIN-482002
4	GSME Enterprise	E-7, House No.-G835, Shivshakti Apartment, Near Basant Kunj, Bhopal (462016)
5	MNEC Consultants	314, Kasturi Bag, Near Water Tank, Ujjain, MP
6	R.R.Construction	H.No.-109, Shivlok Greens, Gopal Nagar, Khajurikalan Road, Near SOS Balgram, District-Bhopal (MP) 462022
7	Rising Survey & Construction	231, Behind Christ Memorial School, Jain Nagar, Lalghati, Bhopal (MP) 462030
8	Soham Ferro Magnese pvt ltd	Block No.-16-17, Ground Floor, N.K.Y. Tower, Ajani Square, Wardha Road, Nagpur-440015, Maharashtra
9	Sanskriti Infra	Near, Shiv Vihar Colony, Dev Nagar, Mahadev Ghat Road, Raipur, CG
10	Clean tech venture AES pvt ltd	MIG-9, Manisha Market, Second Floor, A-Sector, Shahpura, Bhopal (M.P.)-462016
11	Civitech Engineers Svices	A-303, Bhau Saheb, Potness Enclave Phase-L, Gwalior (MP) 474006
12	JP Construction	314, Kasturi Bag, Near Water, Tank Ujjain, MP
13	Paliya Consultancy Services	G2, Chinav Apartment, Near Lovely Dairy, Harishankar Puram, Gwalior

उपरोक्त कार्य हेतु शर्तें निम्नानुसार होगी:-

- उक्त आदेश जारी दिनांक से 05 वर्ष की अवधि के लिए मान्य होगा।
- डी.जी.पी.एस. तथा टोटल स्टेशन सर्वे कार्य हेतु पारिश्रमिक का निर्धारण अधिमान्यता प्राप्त संस्था एवं खनि रियायतधारी के मध्य आपसी समन्वय से किया जावेगा। किसी भी प्रकार का आपसी विवाद होने पर राज्य शासन उत्तरदायी नहीं होगा।

निरंतर 2....

3. कार्य की गुणवत्ता में कमी पाये जाने पर या किसी भी प्रकार की कार्य संबंधी शिकायत पाये जाने पर जांच उपरांत राज्य शासन को यह अधिकार होगा कि उक्त एजेन्सी की मान्यता किसी भी समय समाप्त की जा सकती है।
4. डी.जी.पी.एस. तथा टोटल स्टेशन सर्वे कार्य के संबंध में भारत सरकार/राज्य शासन द्वारा पूर्व में तथा समय-समय पर जारी निर्देशों का पालन अधिमान्यता प्राप्त संस्थान को करना होगा।
5. उपरोक्त संस्थायें विभाग द्वारा जारी आर.एफ.पी. दिनांक 18.11.2022 में उल्लेखित शर्तों तथा निर्बंधनों के अधीन कार्य निष्पादन करने हेतु बाध्य होगी।
6. संस्थाओं द्वारा उपरोक्त शर्तों के अतिरिक्त नियमानुसार पूर्व में तथा समय समय पर जारी अन्य आवश्यक शर्तों का पालन भी सुनिश्चित करना होगा।


संचालक

प्रतिलिपी:-

1. प्रमुख सचिव, खनिज साधन विभाग, मंत्रालय, भोपाल की ओर सूचनार्थ ।
2. कलेक्टर (खनि शाखा) जिला -समस्त, की ओर सूचनार्थ ।
3. क्षेत्रीय प्रमुख (समस्त) की ओर ओर सूचनार्थ ।


संचालक