

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-1							Date of Commencement	20-11-2025	
Co-Ordinates	20°52'52.35"N							Date of Closure	22-11-2025	
	70°29'32.47"E							village	Khalej	
RL	23							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		14
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish top soil	0.00	1.00	1.00
1.00	2.00	1.00	0.45	0.85	85	11.5	Cement/Blendable Grade Limestone	1.00	1.45	0.45
			0.55				Cement/Blendable Grade Limestone	1.45	2.00	0.55
2.00	3.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	2.00	3.00	1.00
3.00	4.00	1.00	1.00	0.95	95		Marl	3.00	4.00	1.00
4.00	5.00	1.00	1.00	0.90	90	22.5	Clay	4.00	5.00	1.00
5.00	6.00	1.00	0.45	1.00	100		Marl	5.00	5.45	0.45
			0.55				Marl	5.45	6.00	0.55
6.00	7.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	6.00	7.00	1.00
7.00	8.00	1.00	0.48	0.90	90	15	Marl	7.00	7.48	0.48
			0.52				Marl	7.48	8.00	0.52
8.00	9.00	1.00	0.40	1.00	100		Marl	8.00	8.40	0.40
			0.60				Marl	8.40	9.00	0.60
9.00	10.00	1.00	1.00	1.00	100	36	Marl	9.00	10.00	1.00
10	11	1	0.3	0.8	80		Marl	10.00	10.30	0.30
			0.70				Marl	10.30	11.00	0.70
11.00	12.00	1.00	1.00	0.90	90		Marl	11.00	12.00	1.00
12.00	13.00	1.00	0.50	1.00	100		Marl	12.00	12.50	0.50
			0.50				Marl	12.50	13.00	0.50
13.00	14.00	1.00	1.00	1.00	100		Marl	13.00	14.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-2							Date of Commencement	27-11-2025	
Co-Ordinates	20°52'48.24"N							Date of Closure	27-11-2025	
	70°29'59.07"E							village	Khalej	
RL	24							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		8
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Bronwish Top soil	0.00	1.00	1.00
1.00	2.00	1.00	1.00				Bronwish Top soil	1.00	2.00	1.00
2.00	3.00	1.00	1.00	0.90	90	10	Marl	2.00	3.00	1.00
3.00	4.00	1.00	1.00	1.00	100	53.5	Cement/Blendable Grade Limestone	3.00	4.00	1.00
4.00	5.00	1.00	1.00	1.00	100	10.5	Cement/Blendable Grade Limestone	4.00	5.00	1.00
5.00	6.00	1.00	1.00	1.00	100	43.5	Marl	5.00	6.00	1.00
6.00	7.00	1.00	1.00	1.00	100	94	Marl	6.00	7.00	1.00
7.00	8.00	1.00	1.00	1.00	100		Marl	7.00	8.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH

Bore Hole No	HUBH-3							Date of Commencement		05-12-2025
Co-Ordinates	20°52'55.06"N							Date of Closure		06-12-2025
	70°30'32.85"E							village		Khalej
RL	26							Taluka		Sutrapada
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		15
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish Top Soil	0.00	1.00	1.00
1.00	2.00	1.00	0.20				Brownish Top Soil	1.00	1.20	0.20
			0.80				Cement/Blendable Grade Limestone	1.20	2.00	0.80
2.00	3.00	1.00	0.80	0.95	95	10.00	Cement/Blendable Grade Limestone	2.00	2.80	0.80
			0.20				Cement/Blendable Grade Limestone	2.80	3.00	0.20
3.00	4.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	3.00	4.00	1.00
4.00	5.00	1.00	0.55	0.95	95		Cement/Blendable Grade Limestone	4.00	4.55	0.55
			0.45				Cement/Blendable Grade Limestone	4.55	5.00	0.45
5.00	6.00	1.00	1.00	1.00	100	69.00	Cement/Blendable Grade Limestone	5.00	6.00	1.00
6.00	7.00	1.00	0.30	0.95	95		Cement/Blendable Grade Limestone	6.00	6.30	0.30
			0.70				Cement/Blendable Grade Limestone	6.30	7.00	0.70
7.00	8.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	8.00	9.00	1.00
9.00	10.00	1.00	0.50	1.00	100	24.00	Cement/Blendable Grade Limestone	9.00	9.50	0.50
			0.50				Marl	9.50	10.00	0.50
10.00	11.00	1.00	0.30	1.00	100	10.00	Marl	10.00	10.30	0.30
			0.70				Marl	10.30	11.00	0.70
11.00	12.00	1.00	0.35	0.92	92		Marl	11.00	11.35	0.35
			0.65				Clay	11.35	12.00	0.65
12.00	13.00	1.00	0.35	1.00	100		Clay	12.00	12.35	0.35
			0.65				Marl	12.35	13.00	0.65
13.00	14.00	1.00	0.50	0.90	90		Marl	13.00	13.50	0.50
			0.50				Clay	13.50	14.00	0.50
14.00	15.00	1.00	1.00	1.00	100	37.00	Clay	14.00	15.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-4								Date of Commencement	01-11-2025
Co-Ordinates	20°52'48.27"N								Date of Closure	02-11-2025
	70°30'52.33"E								village	Khalej
RL	29								Taluka	Sutrapada
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		9
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish Top Soil	0.00	1.00	1.00
1.00	2.00	1.00	1.00	0.85	85		Cement / Blendable Grade Limestone	1.00	2.00	1.00
2.00	3.00	1.00	1.00	0.87	87		Cement / Blendable Grade Limestone	2.00	3.00	1.00
3.00	4.00	1.00	0.35	1.00	100		Cement / Blendable Grade Limestone	3.00	3.35	0.35
			0.65				Marl	3.35	4.00	0.65
4.00	5.00	1.00	0.78	0.93	93		Marl	4.00	4.78	0.78
			0.22				Cement / Blendable Grade Limestone	4.78	5.00	0.22
5.00	6.00	1.00	0.27	0.95	95		Cement / Blendable Grade Limestone	5.00	5.27	0.27
			0.73				Cement / Blendable Grade Limestone	5.27	6.00	0.73
6.00	7.00	1.00	1.00	1.00	100		Cement / Blendable Grade Limestone	6.00	7.00	1.00
7.00	8.00	1.00	1.00	1.00	100		Marl	7.00	8.00	1.00
8.00	9.00	1.00	1.00	1.00	100	10.00	Marl	8.00	9.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-5							Date of Commencement	06-12-2025	
Co-Ordinates	20°52'46.19"N							Date of Closure	06-12-2025	
	70°31'31.12"E							village	Umbri	
RL	29							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		15
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	0.50				Brownish Top Soil	0.00	0.50	0.50
			0.50				Cement/ Blendable Grade Limestone	0.50	1.00	0.50
1.00	2.00	1.00	0.65	0.90	90	21.00	Cement/ Blendable Grade Limestone	1.00	1.65	0.65
			0.35				Cement/ Blendable Grade Limestone	1.65	2.00	0.35
2.00	3.00	1.00	1.00	1.00	100		Cement/ Blendable Grade Limestone	2.00	3.00	1.00
3.00	4.00	1.00	1.00	1.00	100		Marl	3.00	4.00	1.00
4.00	5.00	1.00	1.00	1.00	100	23.00	Marl	4.00	5.00	1.00
5.00	6.00	1.00	1.00	1.00	100		Cement/ Blendable Grade Limestone	5.00	6.00	1.00
6.00	7.00	1.00	1.00	1.00	100	64.00	Clay	6.00	7.00	1.00
7.00	8.00	1.00	1.00	1.00	100		Cement/ Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	0.80	80		Cement/ Blendable Grade Limestone	8.00	9.00	1.00
9.00	10.00	1.00	0.80	0.90	90	78.00	Clay	9.00	9.80	0.80
			0.20				Cement/ Blendable Grade Limestone	9.80	10.00	0.20
10.00	11.00	1.00	1.00	1.00	100	44.00	Cement/ Blendable Grade Limestone	10.00	11.00	1.00
11.00	12.00	1.00	1.00	1.00	100	59.00	Cement/ Blendable Grade Limestone	11.00	12.00	1.00
12.00	13.00	1.00	0.40	1.00	100	14.00	Cement/ Blendable Grade Limestone	12.00	12.40	0.40
			0.60				Marl	12.40	13.00	0.60
13.00	14.00	1.00	1.00	1.00	100		Clay	13.00	14.00	1.00
14.00	15.00	1.00	1.00	1.00	100		Marl	14.00	15.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-6							Date of Commencement	28-11-2025	
Co-Ordinates	20°52'47.28"N							Date of Closure	02-12-2025	
	70°31'45.15"E							village	Umbri	
RL	30							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		18
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	0.65				Brownish Top Soil	0.00	0.65	0.65
			0.35				Marl	0.65	1.00	0.35
1.00	2.00	1.00	1.00	1.00	100	11.00	Marl	1.00	2.00	1.00
2.00	3.00	1.00	1.00	1.00	100		Marl	2.00	3.00	1.00
3.00	4.00	1.00	1.00	1.00	100	40.00	Clay	3.00	4.00	1.00
4.00	5.00	1.00	1.00	1.00	100	78.00	Clay	4.00	5.00	1.00
5.00	6.00	1.00	1.00	1.00	100	90.00	Clay	5.00	6.00	1.00
6.00	7.00	1.00	0.40	1.00	100	26.00	Clay	6.00	6.40	0.40
			0.60				Cement/Blendable Grade Limestone	6.40	7.00	0.60
7.00	8.00	1.00	1.00	1.00	100	56.00	Cement/Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	0.75	75	25.00	Cement/Blendable Grade Limestone	8.00	9.00	1.00
9.00	10.00	1.00	1.00	0.60	60		Cement/Blendable Grade Limestone	9.00	10.00	1.00
10.00	11.00	1.00	1.00	0.60	60		Cement/Blendable Grade Limestone	10.00	11.00	1.00
11.00	12.00	1.00	1.00	1.00	100	23.00	Cement/Blendable Grade Limestone	11.00	12.00	1.00
12.00	13.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	12.00	13.00	1.00
13.00	14.00	1.00	1.00	0.30	30		Marl	13.00	14.00	1.00
14.00	15.00	1.00	1.00	0.30	30		Marl	14.00	15.00	1.00
15.00	16.00	1.00	1.00	0.54	54		Clay	15.00	16.00	1.00
16.00	17.00	1.00	1.00	1.00	100		Clay	16.00	17.00	1.00
17.00	18.00	1.00	1.00	1.00	100		Clay	17.00	18.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH

Bore Hole No	HUBH-7							Date of Commencement	03-12-2025	
Co-Ordinates	20°52'13.60"N							Date of Closure	03-12-2025	
	70°31'47.87"E							village	Vavdi	
RL	23.5							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		9
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish top soil	0.00	1.00	1.00
1.00	2.00	1.00	0.25				Brownish top soil	1.00	1.25	0.25
			0.75				Cement/ Blendable Grade Limestone	1.25	2.00	0.75
2.00	3.00	1.00	0.40	1.00	100		Cement/ Blendable Grade Limestone	2.00	2.40	0.40
			0.60				Cement/ Blendable Grade Limestone	2.40	3.00	0.60
3.00	4.00	1.00	0.45	1.00	100		Cement/ Blendable Grade Limestone	3.00	3.45	0.45
			0.55				Cement/ Blendable Grade Limestone	3.45	4.00	0.55
4.00	5.00	1.00	1.00	0.35	35		Cement/ Blendable Grade Limestone	4.00	5.00	1.00
5.00	6.00	1.00	1.00	0.35	35		Cement/ Blendable Grade Limestone	5.00	6.00	1.00
6.00	7.00	1.00	1.00	1.00	100		Marl	6.00	7.00	1.00
7.00	8.00	1.00	1.00	1.00	100		Cement/ Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	1.00	100	40.00	Clay	8.00	9.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-8							Date of Commencement	02-11-2025	
Co-Ordinates	20°52'10.53"N							Date of Closure	03-11-2025	
	70°31'36.59"E							village	Vavdi	
RL	25							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		11
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish Top Soil	0.00	1.00	1.00
1.00	2.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	1.00	2.00	1.00
2.00	3.00	1.00	0.80	1.00	100		Cement/Blendable Grade Limestone	2.00	2.80	0.80
			0.20				Cement/Blendable Grade Limestone	2.80	3.00	0.20
3.00	4.00	1.00	0.55	0.95	95		Cement/Blendable Grade Limestone	3.00	3.55	0.55
			0.45				Cement/Blendable Grade Limestone	3.55	4.00	0.45
4.00	5.00	1.00	0.80	0.98	98	10.00	Cement/Blendable Grade Limestone	4.00	4.80	0.80
			0.20				Cement/Blendable Grade Limestone	4.80	5.00	0.20
5.00	6.00	1.00	0.30	1.00	100	19.00	Cement/Blendable Grade Limestone	5.00	5.30	0.30
			0.70				Marl	5.30	6.00	0.70
6.00	7.00	1.00	1.00	1.00	100	11.00	Cement/Blendable Grade Limestone	6.00	7.00	1.00
7.00	8.00	1.00	1.00	1.00	100	10.00	Marl	7.00	8.00	1.00
8.00	9.00	1.00	1.00	0.98	98		Marl	8.00	9.00	1.00
9.00	10.00	1.00	1.00	1.00	100		Clay	9.00	10.00	1.00
10.00	11.00	1.00	1.00	1.00	100		Clay	10.00	11.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-9								Date of Commencement	29-11-2025
Co-Ordinates	20°52'22.51"N								Date of Closure	30-11-2025
	70°30'55.25"E								village	Sutrapada
RL	25.5								Taluka	Sutrapada
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		10
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish Top Soil	0.00	1.00	1.00
1.00	2.00	1.00	0.30	1.00	100	11.50	Clay	1.00	1.30	0.30
			0.70				Clay	1.30	2.00	0.70
2.00	3.00	1.00	0.40	1.00	100		Clay	2.00	2.40	0.40
			0.60				Clay	2.40	3.00	0.60
3.00	4.00	1.00	1.00	1.00	100		Marl	3.00	4.00	1.00
4.00	5.00	1.00	1.00	1.00	100		Marl	4.00	5.00	1.00
5.00	6.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	5.00	6.00	1.00
6.00	7.00	1.00	1.00	0.90	90		Cement/Blendable Grade Limestone	6.00	7.00	1.00
7.00	8.00	1.00	1.00	0.55	55		Marl	7.00	8.00	1.00
8.00	9.00	1.00	1.00	0.60	60		Marl	8.00	9.00	1.00
9.00	10.00	1.00	0.40	0.85	85		Marl	9.00	9.40	0.40
			0.60				Marl	9.40	10.00	0.60

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-10							Date of Commencement	07-12-2025	
Co-Ordinates	20°52'30.96"N							Date of Closure	08-12-2025	
	70°30'26.11"E							village	Sutrapada	
RL	26.5							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		11
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish Top Soil	0.00	1.00	1.00
1.00	2.00	1.00	1.00				Brownish Top Soil	1.00	2.00	1.00
2.00	3.00	1.00	1.00	1.00	100.00		Cement/Blendable Grade Limestone	2.00	3.00	1.00
3.00	4.00	1.00	1.00	1.00	100.00		Cement/Blendable Grade Limestone	3.00	4.00	1.00
4.00	5.00	1.00	1.00	0.95	95.00		Cement/Blendable Grade Limestone	4.00	5.00	1.00
5.00	6.00	1.00	1.00	0.90	90.00	75.00	Cement/Blendable Grade Limestone	5.00	6.00	1.00
6.00	7.00	1.00	1.00	1.00	100.00	62.00	Cement/Blendable Grade Limestone	6.00	7.00	1.00
7.00	8.00	1.00	1.00	1.00	100.00	21.00	Cement/Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	1.00	100.00		Marl	8.00	9.00	1.00
9.00	10.00	1.00	1.00	1.00	100.00	69.00	Cement/Blendable Grade Limestone	9.00	10.00	1.00
10.00	11.00	1.00	1.00	1.00	100.00	22.00	Cement/Blendable Grade Limestone	10.00	11.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-11							Date of Commencement	24-11-2025	
Co-Ordinates	20°52'25.65"N							Date of Closure	25-11-2025	
	70°29'51.49"E							village	Sutrapada	
RL	26.5							Taluka	Sutrapada	
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		10
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	1.00				Brownish Top soil	0.00	1.00	1.00
1.00	2.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	1.00	2.00	1.00
2.00	3.00	1.00	1.00	1.00	100		Marl	2.00	3.00	1.00
3.00	4.00	1.00	0.70	1.00	100	11.00	Cement/Blendable Grade Limestone	3.00	3.70	0.70
			0.30				Cement/Blendable Grade Limestone	3.70	4.00	0.30
4.00	5.00	1.00	0.35	1.00	100		Cement/Blendable Grade Limestone	4.00	4.35	0.35
			0.65				Cement/Blendable Grade Limestone	4.35	5.00	0.65
5.00	6.00	1.00	0.35	0.90	90		Cement/Blendable Grade Limestone	5.00	5.35	0.35
			0.65				Cement/Blendable Grade Limestone	5.35	6.00	0.65
6.00	7.00	1.00	0.35	1.00	100		Cement/Blendable Grade Limestone	6.00	6.35	0.35
			0.65				Cement/Blendable Grade Limestone	6.35	7.00	0.65
7.00	8.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	1.00	100		Marl	8.00	9.00	1.00
9.00	10.00	1.00	1.00	1.00	100		Marl	9.00	10.00	1.00

LITHOLOGS OF HARNASA-UMBRI BLOCK, GIR SOMNATH										
Bore Hole No	HUBH-12								Date of Commencement	25-11-2025
Co-Ordinates	20°52'24.79"N								Date of Closure	27-11-2025
	70°29'29.46"E								village	Sutrapada
RL	30.5								Taluka	Sutrapada
Run Length (m)		Run length (m)	Splitted Thickness (m)	Core Recovery		RQD	Lithology	Final Depth (m)		13
From (m)	To (m)			(m)	IN %			From (m)	To (m)	Thickness (m)
0.00	1.00	1.00	0.20				Brownish Top Soil	0.00	0.20	0.20
			0.80				Cement/Blendable Grade Limestone	0.20	1.00	0.80
1.00	2.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	1.00	2.00	1.00
2.00	3.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	2.00	3.00	1.00
3.00	4.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	3.00	4.00	1.00
4.00	5.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	4.00	5.00	1.00
5.00	6.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	5.00	6.00	1.00
6.00	7.00	1.00	1.00	0.95	95		Cement/Blendable Grade Limestone	6.00	7.00	1.00
7.00	8.00	1.00	1.00	0.90	90		Cement/Blendable Grade Limestone	7.00	8.00	1.00
8.00	9.00	1.00	1.00	0.90	90		Cement/Blendable Grade Limestone	8.00	9.00	1.00
9.00	10.00	1.00	1.00	0.90	90	35.00	Cement/Blendable Grade Limestone	9.00	10.00	1.00
10.00	11.00	1.00	1.00	0.95	95		Cement/Blendable Grade Limestone	10.00	11.00	1.00
1.00	12.00	1.00	1.00	1.00	100	12	Cement/Blendable Grade Limestone	11.00	12.00	1.00
12.00	13.00	1.00	1.00	1.00	100		Cement/Blendable Grade Limestone	12.00	13.00	1.00