

GRIDLINE SURVEYS

Solution for Surveying & Computerised Drawing

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Volume Calculation of Minerals Coal,Coke,Iron etc /Earth work Filling Cutting

Methodology:-

Field Work

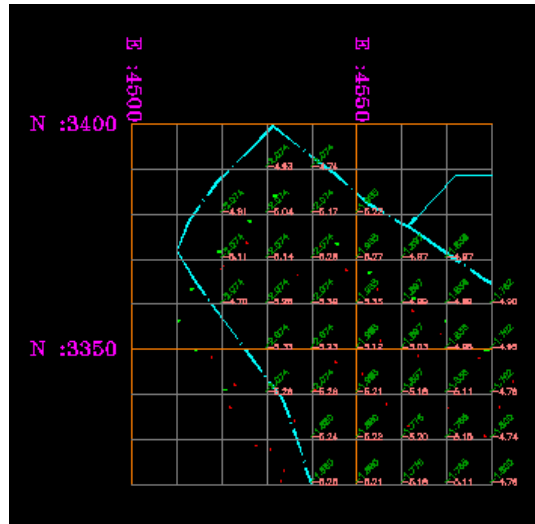
- 1. One surveyor and skilled assistant along with laser total station equipment is used for this purpose.**
- 2. For calculation of the Bio-Fuel stocked, the area at the bottom is measured by using prism.**
- 3. For measuring the height of the Bio-Fuel laser total station is used.**

Office Work

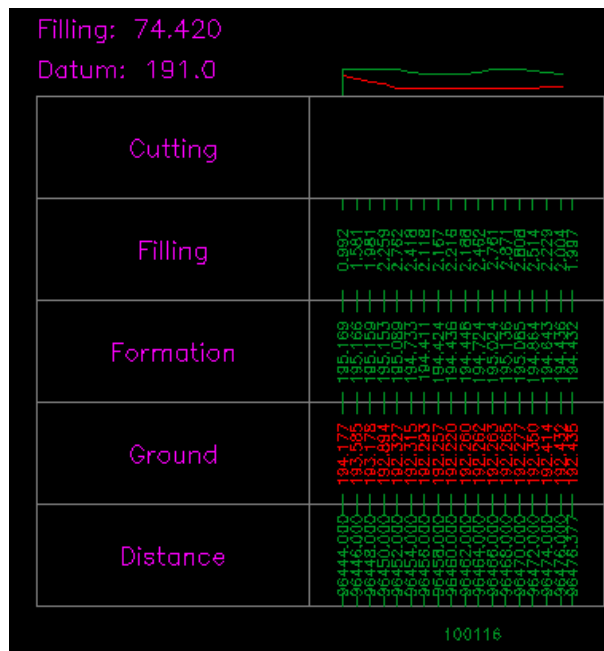
- 4. On transfer of data from the field Using the area and height and using the Special Survey software, the total volume in cubic metre of the Bio-Fuel is calculated.**
- 5. With regard to the void in the Bio-Fuel (ie gap between the Bio-Fuel) industrial norms and experience will be used.**
- 6. By multiplying the total volume in cubic meter (after taking the account the void) by density tonnage in metric is arrived.**

Note: The Voids and Density will very depending the quality size of the Bio-Fuel

MODEL DRAWING



VERTICAL SECTION OF DRAWING



Area Report

Area Report											
Sl. No.	Distance			Cutting Area				Filling Area			
	Meters	Meters	Meters	Cutting Meters	Avg Meters	Width Meters	Area Sq. Meters	Filling Meters	Avg Meters	Width Meters	Area Sq. Meters
Chainage: 100098.000											
1	96458.711	194.474	195.146	0.000	0.000		0.000	0.672	0.000		0.000
2	96460.000	193.856	195.139	0.000	0.000	1.289	0.000	1.283	0.978	1.289	1.260
3	96461.178	193.279	195.133	0.000	0.000	1.178	0.000	1.854	1.569	1.178	1.848
				Total							
							0.000				
Chainage: 100100.000											
1	96456.894	194.477	195.168	0.000	0.000		0.000	0.691	0.000		0.000
2	96458.000	194.055	195.158	0.000	0.000	1.106	0.000	1.103	0.897	1.106	0.992
3	96460.000	193.291	195.139	0.000	0.000	2.000	0.000	1.848	1.476	2.000	2.951
4	96462.000	192.762	195.120	0.000	0.000	2.000	0.000	2.358	2.103	2.000	4.206
5	96464.000	192.233	195.102	0.000	0.000	2.000	0.000	2.869	2.614	2.000	5.227
6	96466.000	192.133	195.076	0.000	0.000	2.000	0.000	2.943	2.906	2.000	5.812
7	96468.000	192.151	195.043	0.000	0.000	2.000	0.000	2.892	2.918	2.000	5.835
8	96469.769	192.175	195.014	0.000	0.000	1.769	0.000	2.839	2.866	1.769	5.069
				Total							
							0.000				
											30.092

MODEL OF VALUME CALCULATION

Sl. No.	Chainage From	Previous Chainage	Difference	Width	Cutting Volume				Filling Volume			
					Area	Previous	Average	Volume	Area	Previous	Average	Volume
					Sq. Meters	Area	Sq. Meters	Cubic Meters	Sq. Meters	Area	Sq. Meters	Cubic Meters
1	100098.000	-	0.000	2.467	0.000	0.000	0.000	0.000	3.108	0.000	1.554	0.000
2	100100.000	100098.000	2.000	12.875	0.000	0.000	0.000	0.000	30.092	3.108	16.600	33.200
3	100102.000	100100.000	2.000	17.242	0.000	0.000	0.000	0.000	37.830	30.092	33.961	67.922
4	100104.000	100102.000	2.000	19.639	0.000	0.000	0.000	0.000	37.457	37.830	37.644	75.287
5	100106.000	100104.000	2.000	22.035	0.000	0.000	0.000	0.000	37.297	37.457	37.377	74.754
6	100108.000	100106.000	2.000	24.432	0.000	0.000	0.000	0.000	37.395	37.297	37.346	74.692
7	100110.000	100108.000	2.000	24.638	0.000	0.000	0.000	0.000	39.046	37.395	38.221	76.441
8	100112.000	100110.000	2.000	27.218	0.000	0.000	0.000	0.000	50.414	39.046	44.730	89.459
9	100114.000	100112.000	2.000	29.797	0.000	0.000	0.000	0.000	61.830	50.414	56.122	112.243
10	100116.000	100114.000	2.000	32.377	0.000	0.000	0.000	0.000	74.420	61.830	68.125	136.250
11	100118.000	100116.000	2.000	36.228	0.000	0.000	0.000	0.000	89.617	74.420	82.019	164.037
12	100120.000	100118.000	2.000	37.993	0.000	0.000	0.000	0.000	102.421	89.617	96.019	192.038
13	100122.000	100120.000	2.000	40.522	0.000	0.000	0.000	0.000	113.434	102.421	107.928	215.855
				Total								
							0.000					
											32445.223	

Our Experience In Mining Survey

Gridline Surveys have been caring out Mining survey and Industries stock Volume calculation work for following Companies as a regular Intervals:-

- 1. Dalmia Cement Corporation Ltd, Kadapa Dist, A.P (Lime Stone Mines)**
- 2. Lanco Industries , Kalahasthri , A.P(Coal, Coke, Iron ore)**
- 3. S.K Mitra Pvt. Ltd. (Coal, Coke)**

4. Sgx Minerals –Visakapattinam(Blue Metal Mines)

5. Sain Gobin – Gudur (Sand Mine)