

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

Name of work: Construction of Leachate Tank to Windrows Composting Project

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	90.00	Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand, or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, and baling out water wherever necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmental officers with intial lead and lifts and cleaning and levelling the site etc., complete	60.87	cum	5478.00
2	5.00	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm. thick well rammed watered and compacted - 1m <sup>3</sup> etc., complete complying with standard specification.	307.50	cum	1538.00
3	5.00	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted, etc., complete complying with standard specification.	1666.38	cum	8332.00
4	191.00	Providing form work for shuttering and strutting etc., for all RCC items of work including cost and hire charges for materials and labour cost etc complete as per standard specification.	258.03	sqm	49284.00
5	30.00	Reinforced cement concrete 1:1.5:3 is using 20mm ISS HBG metal including the cost and conveyance of all materials to site and labour charges for mixing, laying and curing charges etc complete as per standard specification	3681.05	cum	110432.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
6	36.00	Supplying and fabricating and placing in position steel reinforcement using Mild Steel or ribbed for steel rods for all RCC works as per the design given including cost of Steel and binding wire etc, complete in all floors complying with standard specification using MS plain rods or RTS rods.	5149.55	qtl	185384.00
7	L.S	Provision for Water Proofing Treatment	L.S		20000.00
8	L.S	Provision for PVC Foot steps	L.S		4552.00
		TOTAL			<b>385000.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

Name of work: Construction of Ground Level Service Reservoir to Windrow Composting at

Sl. No	Qty	Description of work	Rate	Per	Amount
1	30.00	Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand, or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, and baling out water wherever necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmental officers with intial lead and lifts and cleaning and levelling the site etc., complete	60.87	cum	1826.00
2	3.00	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm. thick well rammed watered and compacted - 1m <sup>3</sup> etc., complete complying with standard specification.	307.50	cum	923.00
3	3.00	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted, etc., complete complying with standard specification.	1666.38	cum	4999.00
4	105.00	Providing form work for shuttering and strutting etc., for all RCC items of work including cost and hire charges for materials and labour cost etc complete as per standard specification.	258.03	sqm	27093.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
5	14.00	Reinforced cement concrete 1:1.5:3 is using 20mm ISS HBG metal including the cost and conveyance of all materials to site and labour charges for mixing, laying and curing charges etc complete as per standard specification	3681.05	cum	51535.00
6	17.00	Supplying and fabricating and placing in position steel reinforcement using Mild Steel or ribbed for steel rods for all RCC works as per the design given including cost of Steel and binding wire etc, complete in all floors complying with standard specification using MS plain rods or RTS rods.	5149.55	qtl	87542.00
7	L.S	Provision for Water Proofing Treatment	L.S		40000.00
8	L.S	Provision for PVC Foot steps	L.S		5000.00
9	L.S	Provision for C.I Manhole Covers	L.S		8500.00
10	L.S	Provision for PVC & G.I specials	L.S		5000.00
11	L.S	Provision for Rain water Harvesting	L.S		10000.00
12	L.S	Contingencies and unforeseen items of works	L.S		7582.00
		TOTAL			<b>250000.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

Name of work: Construction of Pump Room to Windrows Composting Project

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	45.00	Earth work excavation for foundation in all kinds of soils and sub soils to full depth as directed by the departmental officers except hard rock inclusive of shoring strutting and balling out water wherever necessary and refilling the sides of foundation with excavated earth in layers of 15cm thick well rammed and consolidated and depositing the surplus earth with in the compound in places shown by the departmental officers with initial lead of 10 meters and initial lift of 2 meters including cost of all labour charges etc., complete as per standard specification 23 & 24 VI (S2) VII.9,10	60.87	cum	2739.00
2	9.50	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification.	307.50	cum	2921.00
3	9.50	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.	1666.38	cum	15831.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
4	20.00	Reinforced cement concrete M20 (1:1.5:3) using 20mm ISS HBG metal including cost of all materials and labour charges for mixing, laying, finishing and curing etc complete but excluding cost of steel & Centering charges etc., complete as per SS	3681.05	cum	73621.00
5	210.00	Supplying and erecting mild steel sheet shuttering excluding strutting including necessary sides support for plain surface such as grade beam and other R.C.C. works below ground level ( except column ) using mild steel of size 90 c.m. x 60 c.m., of 10 gauge etc., complete complying with standard specification and as Directed .	258.03	sqm	54186.00
6	23.00	Brick work in CM 1:5 (One cement and Five sand) mix using uniformly well burnt country bricks of size 23 x 11 x 5 cm including cost and conveyance of all materials to site and all other labour charges and incidental charges etc., complete for foundation and basement complying with standard specification. (Masonry projection wherever for obtaining the required elevation shall be done without extra cost)	2306.45	cum	53048.00
7	78.00	Special Ceiling Plastering with cement mortar 1:3 mix (One cement and three sand) 10 mm thick including cost and conveyance of all materials, finishing,curing,and all labour charges etc. complete as per standard specification	72.50	sqm	5655.00
8	195.00	Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)	62.58	sqm	12203.00
9	195.00	Painting of walls of two coats using best approved colour and quality of cement paint by the departmental officers including clearing surface watering curing including cost and conveyance of all materials at site and all labour charges etc., complete complying with standard specifications.	33.92	sqm	6614.00
10	45.00	Laying the flooring with Glazed tiles of sizes 305mm X 305mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.	581.00	sqm	26145.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
11	22.00	Supplying, fabricating and placing in position of Steel Reinforcement using Mild steel or Ribbed tor steel rods, for all RCC works as per the design given by the departmental officers including cost of steel and binding wire and all labour charges for cutting, bending, tying and placing in position etc, complete as per SS.	5149.55	qtl	113290.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
12	3.00	Supply and fixing of Rolling shutters with one coat of Red oxide with Primer including all costs such as welding, grinding and fabrication charges, cost and conveyance of all materials to site etc, complete as per standard specification.	1850.00	sqm	5550.00
13	144.00	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding, grinding and fabrication charges, cost and conveyance of all materials to site etc, complete as per standard specification.	50.82	kg	7318.00
14	4.00	Weathering Course with Concrete Broken Brick (S.I.No.278) & ( P & D) Data 54.Jelly 20mm gauge in pure slaked lime (no sand to be added) over roof slab, the proportion of brick jelly to lime being '32 to 12.5 well beated with wooden beaters for giving required slope and thickness as directed by the departmental officers.etc., complete.-1 m <sup>3</sup>	1306.66	cum	5227.00
15	45.00	Finishing the top roof with one course of Machine Pressed Tiles of 18mm(average) thick of approved quality CM.1:3 12 mm thick mixed with WPC at 2% by weight of cement used and top pointed with the same mortar etc complete. - 10 m <sup>2</sup>	335.05	sqm	15077.00
		<b>TOTAL</b>			<b>399425.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

Name of work: Construction of Weigh bridge to Windrow Composting Project

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	60.00	Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand, or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, and baling out water wherever necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmental officers with initial lead and lifts and cleaning and levelling the site etc., complete	60.87	cum	3652.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
2	3.00	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification.	307.50	cum	923.00
3	6.00	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.	1666.38	cum	9998.00
4	11.70	Providing form work for shuttering and strutting etc., for all RCC items of work including cost and hire charges for materials and labour cost etc complete as per standard specification.	258.03	sqm	3019.00
5	17.55	Reinforced cement concrete 1:1.5:3 is using 20mm ISS HBG metal including the cost and conveyance of all materials to site and labour charges for mixing, laying and curing charges etc complete as per standard specification	3681.05	cum	64602.00
6	17.55	Supplying and fabricating and placing in position steel reinforcement using Mild Steel or ribbed for steel rods for all RCC works as per the design given including cost of Steel and binding wire etc, complete in all floors complying with standard specification using MS plain rods or RTS rods.	5149.55	qtl	90375.00
7	26.90	Brick work in CM 1:5 (One cement and Five sand) mix using uniformly well burnt country bricks of size 23 x 11 x 5 cm including cost and conveyance of all materials to site and all other labour charges and incidental charges etc., complete for foundation and basement complying with standard specification. (Masonry projection wherever for obtaining the required elevation shall be done without extra cost)	2306.45	cum	62044.00
8	96.84	Special Ceiling Plastering with cement mortar 1:3 mix (One cement and three sand) 10 mm thick including cost and conveyance of all materials, finishing,curing,and all labour charges etc. complete as per standard specification	72.50	sqm	7021.00
9	L.S	Contingencies and unforeseen items of works	L.S		8366.00
		TOTAL			<b>250000.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

Name of work: Construction of Watchman Shed to Windrow Composting Project

Sl. No	Quantity	Description of work	Rate	Per	Amount
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Sl. No	Quantity	Description of work	Rate	Per	Amount
Sl. No	Quantity	Description of work	Rate	Per	Amount
1	22.50	Earth work excavation for foundation in all kinds of soils and sub soils to full depth as directed by the departmental officers except hard rock inclusive of shoring strutting and balling out water wherever necessary and refilling the sides of foundation with excavated earth in layers of 15cm thick well rammed and consolidated and depositing the surplus earth with in the compound in places shown by the departmental officers with initial lead of 10 meters and initial lift of 2 meters including cost of all labour charges etc., complete as per standard specification 23 & 24 VI (S2) VII.9,10	60.87	cum	1370.00
2	1.76	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification.	307.50	cum	541.00
3	1.76	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.	1666.38	cum	2929.00
4	6.12	Reinforced cement concrete M20 (1:1.5:3) using 20mm ISS HBG metal including cost of all materials and labour charges for mixing, laying, finishing and curing etc complete but excluding cost of steel & Centering charges etc., complete as per SS	3681.05	cum	22519.00
5	80.06	Supplying and erecting mild steel sheet shuttering excluding strutting including necessary sides support for plain surface such as grade beam and other R.C.C. works below ground level ( except column ) using mild steel of size 90 c.m. x 60 c.m., of 10 gauge etc., complete complying with standard specification and as Directed .	258.03	sqm	20657.00
6	9.86	Brick work in CM 1:5 (One cement and Five sand) mix using uniformly well burnt country bricks of size 23 x 11 x 5 cm including cost and conveyance of all materials to site and all other labour charges and incidental charges etc., complete for foundation and basement complying with standard specification. (Masonsry projection wherever for obtaining the required elevation shall be done without extra cost)	2306.45	cum	22744.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
7	8.58	Special Ceiling Plastering with cement mortar 1:3 mix (One cement and three sand) 10 mm thick including cost and conveyance of all materials, finishing,curing,and all labour charges etc. complete as per standard specification	72.50	sqm	622.00
8	85.75	Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)	62.58	sqm	5366.00
9	85.75	Painting of walls of two coats using best approved colour and quality of cement paint by the departmental officers including clearing surface watering curing including cost and conveyance of all materials at site and all labour charges etc., complete complying with standard specifications.	33.92	sqm	2909.00
10	8.58	Laying the flooring with Glazed tiles of sizes 305mm X 305mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.	581.00	sqm	4985.00
11	6.73	Supplying, fabricating and placing in position of Steel Reinforcement using Mild steel or Ribbed tor steel rods, for all RCC works as per the design given by the departmental officers including cost of steel and binding wire and all labour charges for cutting, bending, tying and placing in position etc, complete as per SS.	5149.55	qtl	34653.00
12	3.00	Supply and fixing of Rolling shutters with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	1850.00	sqm	5550.00
13	180.00	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	50.82	kg	9148.00
14	0.69	Weathering Course with Concrete Broken Brick (S.I.No.278) & ( P & D) Data 54.Jelly 20mm gauge in pure slaked lime (no sand to be added) over roof slab,the proportion of brick jelly to lime being '32 to 12.5 well beated with wooden beaters for giving required slope and thickness as directed by the departmental officers.etc., complete.-1 m <sup>3</sup>	1306.66	cum	897.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
15	8.58	Finishing the top roof with one course of Machine Pressed Tiles of 18mm(average) thick of approved quality CM.1:3 12 mm thick mixed with WPC at 2% by weight of cement used and top pointed with the same mortar etc complete. - 10 m 2]	335.05	sqm	2875.00
16	L.S	Contingencies And unforeseen items of works			2235.00
		<b>TOTAL</b>			<b>140000.00</b>

### **ABSTRACT ESTIMATE**

Name of work: Construction of Office Building and other Ammenities to Windrow Compost plant

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	112.50	Earth work excavation for foundation in all kinds of soils and sub soils to full depth as directed by the departmental officers except hard rock inclusive of shoring strutting and balling out water wherever necessary and refilling the sides of foundation with excavated earth in layers of 15cm thick well rammed and consolidated and depositing the surplus earth with in the compound in places shown by the departmental officers with initial lead of 10 meters and initial lift of 2 meters including cost of all labour charges etc., complete as per standard specification 23 & 24 VI (S2) VII.9,10	60.87	cum	6848.00
2	35.55	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification.	307.50	cum	10932.00
3	35.55	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.	1666.38	cum	59240.00
4	87.29	Reinforced cement concrete M20 (1:1.5:3) using 20mm ISS HBG metal including cost of all materials and labour charges for mixing, laying, finishing and curing etc complete but excluding cost of steel & Centering charges etc., complete as per SS	3681.05	cum	321300.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
5	624.50	Supplying and erecting mild steel sheet shuttering excluding strutting including necessary sides support for plain surface such as grade beam and other R.C.C. works below ground level ( except column ) using mild steel of size 90 c.m. x 60 c.m., of 10 gauge etc., complete complying with standard specification and as Directed .	258.03	sqm	161140.00
6	73.48	Brick work in CM 1:5 (One cement and Five sand) mix using uniformly well burnt country bricks of size 23 x 11 x 5 cm including cost and conveyance of all materials to site and all other labour charges and incidental charges etc., complete for foundation and basement complying with standard specification. (Masonsry projection wherever for obtaining the required elevation shall be done without extra cost)	2306.45	cum	169466.00
7	300.00	Special Ceiling Plastering with cement mortar 1:3 mix (One cement and three sand) 10 mm thick including cost and conveyance of all materials, finishing,curing,and all labour charges etc. complete as per standard specification	72.50	sqm	21750.00
8	638.91	Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)	62.58	sqm	39983.00
9	638.96	Painting of walls of two coats using best approved colour and quality of cement paint by the departmental officers including clearing surface watering curing including cost and conveyance of all materials at site and all labour charges etc., complete complying with standard specifications.	33.92	sqm	21673.00
10	192.00	Paving the floor with palin/design Antiskirt ceramic tiles (colour and shade as directed) of size 305 mm x 305mm x 6 mm in all floors over a base layer of cement mortar 1:3 (one cement and three sand ) 20mm thick laid in-situ and pointed with same coloured cement	581.00	sqm	111552.00
11	81.00	Dadoing walls with Glazed tiles of sizes 305mm X200mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.	569.10	sqm	46097.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
12	106.70	Supplying, fabricating and placing in position of Steel Reinforcement using Mild steel or Ribbed tor steel rods, for all RCC works as per the design given by the departmental officers including cost of steel and binding wire and all labour charges for cutting, bending, tying and placing in position etc, complete as per SS.	5149.55	qtl	549457.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
13	32.00	Supply and fixing of Rolling shutters with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	1850.00	sqm	59200.00
14	360.00	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	50.82	kg	18295.00
15	15.36	Weathering Course with Concrete Broken Brick (S.I.No.278) & ( P & D) Data 54.Jelly 20mm gauge in pure slaked lime (no sand to be added) over roof slab,the proportion of brick jelly to lime being '32 to 12.5 well beaten with wooden beaters for giving required slope and thickness as directed by the departmental officers.etc., complete.-1 m <sup>3</sup>	1306.66	cum	20070.00
16	192.00	Finishing the top roof with one course of Machine Pressed Tiles of 18mm(average) thick of approved quality CM.1:3 12 mm thick mixed with WPC at 2% by weight of cement used and top pointed with the same mortar etc complete. - 10 m <sup>2</sup> ]	335.05	sqm	64330.00
17	L.S	Provision for Parking shed			16387.00
		<b>TOTAL</b>			<b>1697720.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

**Name of work: Construction of Processing Area to Windrow Compost plant at**

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	630.00	Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel,stone earth and earth mixed with small size boulders SS.20B and Sand,silt or other loose soil, wet sand,or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, ,and baling out water wherever 'necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmentalofficers with intial lead and lifts and cleaning and levelling the site etc.,complete	60.87	cum	38348.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
2	172.80	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification.	307.50	cum	53136.00
3	172.80	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.	1666.38	cum	287950.00
4	918.00	Providing form work for shuttering and strutting etc., for all RCC items of work including cost and hire charges for materials and labour cost etc complete as per standard specification.	258.03	sqm	236872.00
5	220.35	Reinforced cement concrete 1:1.5:3 is using 20mm ISS HBG metal including the cost and conveyance of all materials to site and labour charges for mixing, laying and curing charges etc complete as per standard specification	3681.05	cum	811119.00
6	126.30	Brick work in CM 1:5 (One cement and Five sand) mix using uniformly well burnt country bricks of size 23 x 11 x 5 cm including cost and conveyance of all materials to site and all other labour charges and incidental charges etc., complete for foundation and basement complying with standard specification. (Masonsry projection wherever for obtaining the required elevation shall be done without extra cost)	2306.45	cum	291308.00
7	1098.27	Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)	62.58	sqm	68730.00
8	1098.27	Painting of walls of two coats using best approved colour and quality of cement paint by the departmental officers including clearing surface watering curing including cost and conveyance of all materials at site and all labour charges etc., complete complying with standard specifications.	33.92	sqm	37253.00
9	242.39	Supplying and fabricating and placing in position steel reinforcement using Mild Steel or ribbed for steel rods for all RCC works as per the design given including cost of Steel and binding wire etc, complete in all floors complying with standard specification using MS plain rods or RTS rods.	5149.55	qtl	1248174.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
10	4221.60	Supplying, fabricating, erecting structural steel work for roofing welded or bolted ype using MS channels, angles, plates and round bars etc. conforming tc IS specification including primer coating and enamel painting as per Design given by the departmental officers etc,complete as per standard specification.	65.00	KG	274404.00
11	960.00	Supply and fixing of Fibre Sheet Roof with all accsessories such as J-Bolts,bitumen washers,nuts and washers etc including cost and conveyance of all materials to site etc,complete as per standard specification.	381.75	sqm	366480.00
12	32.00	Supply and fixing of Rolling shutters with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	1850.00	sqm	59200.00
13	450.00	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	50.82	KG	22869.00
		<b>TOTAL</b>			<b>3795843.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

**Name of work: Providing B.T.Surface to Windrows Compost plant at Venkadamangalam**

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	1260.00	Filling up of Quarry Rubbish to the required thickness but not exceeding to 300mm inclding cost of materials and the same to stacking at the site for taking pre-measurements by the departmental officers and consolidated by 8 - 10 Tonne capacity power roller with water rolling etc,complete as per standard specification.	118.00	cum	148680.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
2	630.00	Providing and laying sand gravel mix X : Y to the required thickness to give a minimum soaked CBR value as per IRC 37-1984 including cost and conveyance of sand and gravel to the work site and stacking them to the standard departmental metric gauge for pre-measurements, mixing the required quantities of sand and gravel, spreading, watering and compacting the mix in layers of thickness not exceeding 100 mm compacted thickness by 80-100 KN power roller, rolling to achieve the required density including the labour charges for mixing, spreading and other tools and plants, etc., complete as per clause 401 of Morth specification	355.00	cum	223650.00
3	300.00	Providing and laying WBM 100mm compacted thickness with grade 1 metal using 1.32 cum of 90-45 mm IRC size HBG metal with 0.32 cum of sand gravel mix for blindage per 10 sq.m including cost and conveyance of all materials and stacking them at the site to the departmental gauge for premeasurements, labour charges for spreading metal and sand gravel mix, hand packing to camber watering with all leads for water and compaction by 8-10 t power roller including hire charges and fuel charges for power roller, water sprinkler and all other tools and plant employed, barricading etc., complete as per clause 404 of Morth specificatioion.	753.00	cum	225900.00
4	225.00	Providing and laying WBM 75mm compacted thickness with grade 2 metal using 1.00 cum of 63-45 mm IRC size HBG metal with .24 cum of gravel for blindage per 10 sq.m including cost and conveyance of all materials and stacking them at the site of departmental gauge for premeasurements, labour charges for spreading metal and gravel, hand packing to camber, watering with all leads for water and compaction by 80-100kn power roller including hire charges and fuel charges for power roller, water sprinkler and all other tools and plant employed, barricading etc., complete as per clause 404 of Morth specificatioion	885.00	cum	199125.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
5	225.00	Providing and laying WBM 75mm compacted thickness with grade 3 metal using 1.00 cum of 53-22.40mm IRC size HBG metal with .24 cum of gravel for blindage per 10 sq.m including cost and conveyance of all materials and stacking them at the site to the departmental gauge for premeasurements,labour charges for spreading metal and gravel, hand packing to camber,watering with all leads for water and compaction by 80-100 KN power roller including hire charges and fuel charges for power roller , water sprinkler and all other tools and plant employed , barricading etc.,complete as per clause 404 of Morth specification.	990.00	cum	222750.00
6	3000.00	Providing and laying tack coat 10 kgs/10 sqm over the WBM surface treated with primer using 10 kg of bituminous binder for 10 square meter area including cost of bituminous binder, including labour charges for applying the required quantity of bituminous binder as tack coat by bitumen sprayer etc., complete as per clause 503 of Morth specification.	40.80	sqm	122400.00
7	150.00	Providing and laying 50mm compacted thick bituminous macadam using 0.42 cum of 26.5-11.2 mm graded metal and 0.10 cum of 11.2-2.8 mm graded metal and 0.18 cum of 2.8 mm and below with 38 kgs of bitumen for premixing per 10 sqm including cost and conveyance of all materials to work site and stacking them on road side to standard departmental gauge for pre-measurement,heating the bitumen in bitumen boiler,heating the aggregates and mixing them with bitumen in mini hot mix plant, spreading the mix to the required grades and lines, compaction by 80-100 KN power roller including labour charges for loading spreading etc., including hire charges and fuel charges for mini hot mix plant, power roller, bitumen boiler and all other tools and plants employed, etc.,complete as per clause 504 of Morth specification.	5166.04	cum	774906.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
8	3000.00	Providing and laying Premix carpet with seal coat type "A" for 20mm thickness using 0.18 cum of 13.2 mm IRC HBG metal and 0.09 cum of 11.2mm IRC HBG with 14.6 kg of bitumen for premixing 10 sqm of premix carpet and 0.09 cum of 6.7 mm IRC HBG metal with 9.80 Kgs of bitumen for seal coat type "A" per 10 sqm including cost and conveyance of all materials to work site and stacking them to the departmental metric gauge for premeasurement, heating the bitumen in bitumen boiler, heating the aggregates and mixing them with bitumen in mini hot mix plant for pre mix carpet only, rolling by 80-100kn power roller, for premix carpet and seal coat over premix carpet, including labour charges for spreading seal coat separately over premix carpet etc., including hire charges and fuel charges for mini hot mix plant, power roller, bitumen boiler and all other tools and plants employed, etc., complete as per clause 509 of Morth specifications.	139.00	sqm	417000.00
<b>TOTAL</b>					<b>2334411.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**ABSTRACT ESTIMATE**

Name of work: Construction of Storage Room to Windrow composting with covered shed

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	90.00	Earth work excavation for foundation in all kinds of soils and sub soils to full depth as directed by the departmental officers except hard rock inclusive of shoring strutting and balling out water wherever necessary and refilling the sides of foundation with excavated earth in layers of 15cm thick well rammed and consolidated and depositing the surplus earth with in the compound in places shown by the departmental officers with initial lead of 10 meters and initial lift of 2 meters including cost of all labour charges etc., complete as per standard specification 23 & 24 VI (S2) VII.9,10	60.87	cum	5478.00
2	24.00	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm. thick well rammed watered and compacted - 1m <sup>3</sup> etc., complete complying with standard specification.	307.50	cum	7380.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
3	24.00	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.	1666.38	cum	39993.00
4	41.00	Reinforced cement concrete M20 (1:1.5:3) using 20mm ISS HBG metal including cost of all materials and labour charges for mixing, laying, finishing and curing etc complete but excluding cost of steel & Centering charges etc., complete as per SS	3681.05	cum	150923.00
5	393.00	Supplying and erecting mild steel sheet shuttering excluding strutting including necessary sides support for plain surface such as grade beam and other R.C.C. works below ground level ( except column ) using mild steel of size 90 c.m. x 60 c.m., of 10 gauge etc., complete complying with standard specification and as Directed .	258.03	sqm	101406.00
6	43.00	Brick work in CM 1:5 (One cement and Five sand) mix using uniformly well burnt country bricks of size 23 x 11 x 5 cm including cost and conveyance of all materials to site and all other labour charges and incidental charges etc., complete for foundation and basement complying with standard specification. (Masonsry projection wherever for obtaining the required elevation shall be done without extra cost)	2306.45	cum	99177.00
7	158.00	Special Ceiling Plastering with cement mortar 1:3 mix (One cement and three sand) 10 mm thick including cost and conveyance of all materials, finishing,curing,and all labour charges etc. complete as per standard specification	72.50	sqm	11455.00
8	352.00	Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)	62.58	sqm	22028.00
9	352.00	Painting of walls of two coats using best approved colour and quality of cement paint by the departmental officers including clearing surface watering curing including cost and conveyance of all materials at site and all labour charges etc., complete complying with standard specifications.	33.92	sqm	11940.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
10	121.00	Laying the flooring with Glazed tiles of sizes 305mm X 305mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.	581.00	sqm	70301.00

Sl. No	Quantity	Description of work	Rate	Per	Amount
11	44.40	Supplying, fabricating and placing in position of Steel Reinforcement using Mild steel or Ribbed tor steel rods, for all RCC works as per the design given by the departmental officers including cost of steel and binding wire and all labour charges for cutting, bending, tying and placing in position etc, complete as per SS.	5149.55	qtl	228640.00
12	3.00	Supply and fixing of Rolling shutters with one coat of Red oxide with Primer including all costs such as welding, grinding and fabrication charges, cost and conveyance of all materials to site etc, complete as per standard specification.	1850.00	sqm	5550.00
13	72.00	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding, grinding and fabrication charges, cost and conveyance of all materials to site etc, complete as per standard specification.	50.82	kg	3659.00
14	10.00	Weathering Course with Concrete Broken Brick (S.I.No.278) & ( P & D) Data 54.Jelly 20mm gauge in pure slaked lime (no sand to be added) over roof slab, the proportion of brick jelly to lime being '32 to 12.5 well beated with wooden beaters for giving required slope and thickness as directed by the departmental officers.etc., complete.-1 m <sup>3</sup>	1306.66	cum	13067.00
15	121.00	Finishing the top roof with one course of Machine Pressed Tiles of 18mm(average) thick of approved quality CM.1:3 12 mm thick mixed with WPC at 2% by weight of cement used and top pointed with the same mortar etc complete. - 10 m <sup>2</sup>	335.05	sqm	40541.00
		<b>TOTAL</b>			<b>811538.00</b>

**PALLAVAPURAM MUNICIPALITY**  
**DETAILED ESTIMATE**

Name of work: Proposed Construction of Windrow Compositing at Venkadamangalam

Sl. No	Description of work	Nos
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Sl. No	Quantity	Description of work	Rate	Per	Amount
1		Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand, or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, and baling out water wherever necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmental officers with intial lead and lifts and cleaning and levelling the site etc., complete 10 m <sup>3</sup>			
		Footing F1	14	x	31
		Footing F2	2	x	31
		Footing F3	2	x	33
		Plinth Beam Longer side	2	x	2
			2	x	2
			3	x	2
		Plinth Beam Shorter side	2	x	34
		Leachte Drain	1	x	2
		Storm Water Drain	1	x	2
		<b>TOTAL</b>			
2		Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm. thick well rammed watered and compacted - 1m <sup>3</sup> etc., complete complying with standard specification.			
		Footing F1	14	x	31
		Footing F2	2	x	31
		Footing F3	2	x	33
		Plinth Beam Longer side	2	x	2
			2	x	2
			3	x	2
		Plinth Beam Shorter side	2	x	34
		Leachte Drain	1	x	2
		Storm Water Drain	1	x	2
		Flooring	2	x	2
			2	x	2
			1	x	3
		<b>TOTAL</b>			
3		Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted, etc., complete complying with standard specification.			
		Footing F1	14	x	31
		Footing F2	2	x	31

Sl. No	Quantity	Description of work	Rate	Per	Amount
		Footing F3	2	x	33

Sl. No	Quantity	Description of work	Rate	Per	Amount
		Plinth Beam Longer side	2	x	2
			2	x	2
			3	x	2
		Plinth Beam Shorter side	2	x	34
		Leachte Drain	1	x	2
		Storm Water Drain	1	x	2
		Flooring	2	x	2
			2	x	2
			1	x	3
		<b>TOTAL</b>			
4		Centering for soffits of RCC slabs of plane surface like lintels, beams ,etc.,including strutting 3m high using mild steel sheets of size 90cm X 60cm X and B.G 10 stiffened with M.S angles of size 25mm X 25mm X 3mm laid over silver Oak (C.W) joists of size 10cm X 6.5cm (spaced at about 90cm c/c )and supported dy casurina props of 10cm to 13cm dia (spaced of 75cm C/C) complying with standard specification and directed - 10 m 2 (P & D)Data 38			
A		<b>Plinth Beams</b>			
		Footing F1	14	x	31
		Footing F2	2	x	31
		Footing F3	2	x	33
		Pedestal	14	x	31
			2	x	31
			2	x	33
		Plinth Beam Longer side	2	x	4
			2	x	4
			3	x	4
		Plinth Beam Shorter side	2	x	34
		Leachte Drain	2	x	3
		Storm Water Drain	2	x	3
		Rain water Pipe portion	2	x	8
		Windrow Pad	2	x	34
			2	x	14
		<b>TOTAL</b>			
b		<b>Columns</b>			
		Column C1	1	x	434
		Column C2	1	x	62
		Column C3	1	x	66
		<b>TOTAL</b>			
c		<b>Beams and Slabs</b>			
		Tie Beam @ 3.00m level	2	x	2
			2	x	31
		Tie Beam @ 6.00m level	2	x	2
			2	x	31
		<b>TOTAL</b>			

<b>Sl. No</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate</b>	<b>Per</b>	<b>Amount</b>
5		Plain Cement concrete 1:1.5 :3 (one cement,one and half sand & three course aggregate )using 20mm ,gauge hand broken/ and broken granite stone for all PCC items of works including cost and conveyance of all materials to site etc, complete.			

Sl. No	Quantity	Description of work	Rate	Per	Amount
		Flooring	2	x	2
			2	x	2
			1	x	3
6		Reinforced Cement concrete 1:1.5 :3 (one cement,one and half sand & three course aggregate )using 20mm ,gauge hand broken/ and broken granite stone for all RCC items of works excluding centeringshuttering and cost of reinforcement grill ,out including curing etc.,complete and also including fixing fan clamps and fixtures in RCC works wherever necessary as directed by departmental officer etc., complete.			
		Footing F1	14	x	31
		Footing F2	2	x	31
		Footing F3	2	x	33
		Pedestal	14	x	31
			2	x	31
			2	x	33
		Plinth Beam Longer side	2	x	2
			2	x	2
			3	x	2
		Plinth Beam Shorter side	2	x	34
		Column C1	1	x	434
		Column C2	1	x	62
		Column C3	1	x	66
		Tie Beam @ 3.00m level	1	x	2
			1	x	31
		Tie Beam @ 6.00m level	1	x	2
			1	x	31
		<b>TOTAL</b>			
7		Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors -upto 16mm dia bars			
			1	x	1
		Flooring	1	x	1
8		Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors -Above 16mm dia bars			
			1	x	1
		Flooring	1	x	1
9		Filling in foundation and basement with excavated earth in layers of not more than 15 cm thick well rammed watered and compacted etc., complete complying with standard specification.			
			1	x	1

Sl. No	Quantity	Description of work	Rate	Per	Amount

Sl. No	Quantity	Description of work	Rate	Per	Amount
10		Brick work in CM 1:5 (one cement & five sand) using II nd class ground moulded bricks of size 9"X4 1/2" X 3" standard specification including finishing, curing,etc., complete complying with standard specification			
		Basement	1	x	2
		Basement	1	x	8
		Walls Allround	2	x	33
			1	x	8
		<b>TOTAL</b>			
11		Plain Cement concrete 1:2:4 (one cement, two sand, four aggregate) using 20mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.			
		Steps	1	x	2
			2	x	7
12		Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer and fixed on wall with sliding gear and moving to either sides and inclusive of all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.			
			1	x	2
13		Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)			
		Brick work Qty	1	x	2
14		Supplying, fabricating, erecting structural steel work for roofing welded or bolted type using MS channels, angles, plates and round bars etc. conforming to IS specification including primer coating and enamel painting as per Design given by the departmental officers etc,complete as per standard specification			
		For One Truss			
		Bottom 2ISA 65 X 65 X 6mm	1	x	2
		Top 2ISA 65 X 65 X 6mm	1	x	2
		Vertical member ISMC 250 box	1	x	5
		Cross Member ISA 65 X 65 X 6mm	2	x	10
			1	x	4
		Bolt & Nuts			
		Total for One Truss			
		Total for All Trusses	16	x	6
		Middle Truss two numbers	1	x	2
		Purlins Z 250	6	x	14
		Middle Section	2	x	7

Sl. No	Quantity	Description of work	Rate	Per	Amount

Sl. No	Quantity	Description of work	Rate	Per	Amount
		For Middle Truss - One Number Bottom 2ISA 65 X 65 X 6mm Top 2ISA 65 X 65 X 6mm Cross Member ISA 65 X 65 X 6mm	1 2 1 1 1 1 1 1	x x x x x x x x	2 2 2 2 2 2 2 2
		Total for One Truss Total for 34 Truss Purlins Z 250	1 1	x x	34 5
15		Supplying and fixing in position of best approved colour design and quality FRP sheets of 1.5mm thick with necessary 'U' or 'J' bolts, bitumen washers and cutting the FRP sheets to the required size.etc. complete.  Middle Truss	2 1 1 1	x x x x	12 2 2 2
16		Supply and fixing of FRP Sheet Ridge cover with all accessories such as J-Bolts, bitumen washers, nuts and washers etc including cost and conveyance of all materials to site etc, complete as per standard specification.	1 1	x x	8 1
17		Supply and fixing of 100 X 100 mm size PVC coated Diamond shape chain link weld mesh of 10 gauge fixed on wall by holdfasts of size 25 X 25 X 5mm ISA angle to a length of 230mm and Allround frame should be 25 X 25 X 5mm ISA Angle and in middle have a flat plate of size 50 X 6mm as shown in the drawing given and the cost includes of ISA angles, plates, weld mesh and welding, grinding, one coat of red oxide primer and two coats of Enamel painting and all accessories such as Bolts, washers, nuts and washers etc including cost and conveyance of all materials to site etc, complete as per standard specification.	2 2	x x	31 14

<b>Sl. No</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate</b>	<b>Per</b>	<b>Amount</b>
18		Cement concrete 1:3:6 (one cement, three sand, six aggregate) using 20mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.			

Sl. No	Quantity	Description of work	Rate	Per	Amount
		Leachte Drain	2	x	2
		Storm Water Drain	2	x	2
19		Providing & fixing PVC RAIN WATER DOWNFALL PIPE of 140mm dia with necessary T.W.Clamps Plugs, Shoes,Bends, other clamps, screws nails etc.,complete complying with standard specification. The rate is inclusive of cost of removable iron gratings of appropriate size. The size of Teak Wood plugs used is 150X25mm in front & 200x75mm in rear (wall side) with a depth of 140mm. The pipe is to be fixed by means of "U" clamps at the centre of pipes to be fixed. [4Kn/SnCr]	14	x	8
20		Supply and laying of 315mm dia PVC pipe of 4KSC for removal of rain water form the rain water down fall pipe to Storm water drain and laying over the windrow pad by proper gradient and coverd by plain cement concrete.The cost inclusive of PVC pipe and labour charges but excluding the cost of centering and concrete etc,complete as per standard snerification.	2	x	8
21		Providing Rain water Gutters with PVC or FRP of size 250mm X 450mm and fixed by as shown in the drawing given. The rate inclusive of all metrials and labour charges to site etc,complete as per standard specification.	2	x	8
22		Providing Gardening and Landscapping with Korean Grass and article Plants with all costs and a bed layer of Red soil to 150mm thick, including cost and conveyance of all materials to site etc,complete as per standard specification.		L.S	

### **DETAILED ESTIMATE**

Name of work:Providing External & Internal water supply arrangements to  
Windrows Compost plant at Venkadamangalam

Sl. No	Description of work	Nos
1	Drilling 150mm dia.vertical Borewells in Hard rock area to any required depth as directed by the depth officers including labour charges for inserting casing pipe assembling in the drilled hole including welding the joints if necessary transportation charges for rig and supporting vehicle from one place to another.	1 x 3

Sl. No	Quantity	Description of work	Rate	Per	Amount
2		Supply and fixing of 140mm dia. PVC casing pipe including cost and conveyance of all materials to site etc,complete as per standard specification	1	x	3
3		Supply and fixing of 1.0 Hp Submersible Pumps with all accessories, including cost and conveyance of all materials to site etc,complete as per standard specification	1	x	3
4		Supplying laying and jointing P.V.C pipes (6Kg/SqCm) of approved quality and best variety conforming to I.S.S & with I.S.I mark, of the following sizes including cutting , Fixing to PVC specials using Adhesive but excluding cost of such specials and fixing to wall with necessary teak - Wood Plugs,PVC Clamps and screws,making holes on the wall or drilling holes in roof and making good the dismantled portions to original condition with necessary brick work and plastering wherever necessary with necessary scaffolding charges.			
	a	40MM dia,PVC pipe	1	x	1
	b	32MM dia,PVC pipe	1	x	1
	c	25MM dia,PVC pipe	1	x	1
	d	20mm dia.PVC pipe	1	x	1
	e	200mm dia PVC Pipe ( Channels )	1	x	1
5		Supplying and fixing in position best quality approved make white glazed earthenware wash hand basin of size 550 X 400 mm with a pair of cast iron brackets, including cost of 15mm diametre brass chromium plated pillar tape,32 mm diametre C.P. Waste union, 32 mm diametre P.V.C. waste pipe with rubber plug and chain, 15mm diametre G.M.wheel valve, 15mm dia brass nipple, 15mm dia nylon connections etc., including fixing the wash hand basin in the wall in position with a pair of C.I. brackets with teak wood plugs and screws and giving necessary water supply connection and painting the brackets with two coats of paint over a priming coat of anticorrosive paint including testing for leakage etc., complete complying with standard specifications (the wash hand basins and specials should be got approved by the Executive Engineer before use on works)	1	x	2
6		Supplying and fixing in position indian make bewelled edge mirror of approved quality and brand of size 600 X 450mm wth necessary plastic back, PVC frame with bottom stand of approved colour with brass screws,rawal plugs etc., complete complying with standard specifications.(The mirror Should be got approved by Executive Engineer before use on works.)	1	x	2

Sl. No	Quantity	Description of work	Rate	Per	Amount
7		Supplying and fixing best approved quality Brass C.P / Al anodised Towel rail 600mm. long and 20mm Diameter with brackets of same material including cost of Teak-Wood plugs and C.P.Screws etc., complete complying with standard specifications	1	x	2
8		Supplying and fixing best approved quality C.P.Soap Tray of size 150mm X 100mm including cost of Teak Woodplugs, brass screws complete complying with standard specifications.	1	x	3
9		Supplying and fixing in position Indian water closet of size 580 X 440mm, white glazed earthen ware of approved quality with 'P' trap or 'S' trap confirming to IS:2556 - Part XII with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 ( one part of lime, two parts of sand and five parts of brick jelly) 100mm thick and finishing the top to required slope and including giving necessary connection to cast iron soil pipes/ PVC pipes by dismantling brick masonry, reinforced cement concrete roof/floor slab and making good the disturbed portion to original condition without leakage etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Executive Engineer before use on works.)	1	x	3
10		S/F in position of Indian Make White/Colour glazed earthen ware lipped mouth Flat Back Urinal of best approved quality with G.I.Pipe connection to suitable length,32mm bell mouthed P.V.C connection ,15mm dia G.M.Wheel valve,fixing the urinal to the wall in position with necessary T.W.plugs ,clamps,screws, shellac etc.,including dismantling masonry if necessary and redoing the same to original condition ,fixing the 15mm dia. G.I.pipe connection and wheel valve ,painting the pipe with two coats of approved paint over one coat of primer and checked without any leakage complete, complying with standard specifications. (The urinal Should be got approved by the Executive Engineer before use on works.-	1	x	5
11		Supplying and fixing in position first quality and approved variety of Gun Metal Gate Valve (Heavy type ) with I.S.I.mark of the 25mm dia sizes including cost of Shellac , thread etc.,including labour for cutting and threading of G.I.Pipes etc.,complete complying with standard specifications for both internal and external water Supply arrangements (per 1 No )	1	x	6

Sl. No	Quantity	Description of work	Rate	Per	Amount
12		Suppling and fixing in position 15mm.diameter brass / C.P screw down tap / pillar tap / swan neck tap (heavy duty) of approved make conforming to I.S.specifications and quality including cost of shellac , thread etc.complying with standard specifications and including cutting and threading wherever necessary (Taps should be got approved by the executive Engineer before use on the work (per Ino )	1	x	20
13		Supplying and fixing A.C ventilating shaft of 100mm dia and 3m height of best approved quality and as per standard specifications.	1	x	12
14		Supplying and fixing in position C.I.Manhole covers (light or heavy duty) mof various sizes of best approved quality and as per atandard specificationsetc.,complete.	1	x	20
15		Supplying laying and jointing G.I. Pipes of approved quality and best varity of B Class pipe of the following sizes including fixing G.I specials but excluding cost of such specials cutting threading of pipes and fixing to wall with necessary teak wood plugs, clamps and screws masking holes on the wall or drilling holes in roof and making good the dismantled portions to original conditions with necessary brick work and concrete and plastering where ever necessary with necessary scaffolding charges. The pipes are to be painted with two coats of good variety and best approved quality of synthetic enamel paint over a priming coat of red-oxide primer etc., complete.			
a		20MM dia,G.I pipe	1	x	1
b		75MM dia,G.I pipe	1	x	1
c		100MM dia,G.I pipe	1	x	1
16		Supplying laying and jointing the glazed S W pipes of the following sizes of approved quality with spigot and socket ends in dry condition with spun yarn and cement joints required depth for tranches including petty masonry,shoring and strutting wherever found necessary, and laying the pipeline in the alignment at the specified gradient and testing with necessary tools and plant etc. and levelling the ground complete complying with standard specifications.			
b		150mm dia.S.W.Pipe	1	x	1
17		PVC. Nahini / Floor Trap with stainless Steel Gratings - 100 mm x 75 mm	1	x	6
18		Construction of Inspection chambers of size 0.90 X 0.90 X 0.90m including cost of earth work, brick work, plastering and all others etc,complete as per standard specification	1	x	6
19		Conducting Geological survey to investigate the Bore hole point	1	x	3

<b>Sl. No</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate</b>	<b>Per</b>	<b>Amount</b>
20		Contingencies and unforeseen items of works			L.S

Sl. No	Quantity	Description of work	Rate	Per	Amount
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**PALLAVAPURAM MUNICIPALITY**  
**DETAILED ESTIMATE**

Name of work: Proposed Construction of Windrow Compositing at Venkadamangalam

Sl. No		Description of work	Nos	
1		Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand, or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, and baling out water wherever necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmental officers with intial lead and lifts and cleaning and levelling the site etc., complete 10 m <sup>3</sup>		
		Footing F1	14	x 31
		Footing F2	2	x 31
		Footing F3	2	x 30
		Plinth Beam Longer side	1	x 2
			2	x 31
		Leachte Drain	1	x 2
		Storm Water Drain	1	x 2
		<b>TOTAL</b>		
2		Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm. thick well rammed watered and compacted - 1m <sup>3</sup> etc., complete complying with standard specification.		
		Footing F1	14	x 31
		Footing F2	2	x 31
		Footing F3	2	x 30
		Plinth Beam Longer side	1	x 2
			2	x 31
		Leachte Drain	1	x 2
		Storm Water Drain	1	x 2
		Flooring	1	x 1
		<b>TOTAL</b>		

Sl. No	Quantity	Description of work	Rate	Per	Amount
3		Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.			
		Footing F1	14	x	31
		Footing F2	2	x	31
		Footing F3	2	x	30
		Plinth Beam Longer side	1	x	2
			2	x	31
		Leachte Drain	1	x	2
		Storm Water Drain	1	x	2
		Flooring	1	x	1
		<b>TOTAL</b>			
4		Centering for soffits of RCC slabs of plane surface like lintels, beams ,etc.,including strutting 3m high using mild steel sheets of size 90cm X 60cm X and B.G 10 stiffened with M.S angles of size 25mm X 25mm X 3mm laid over silver Oak (C.W) joists of size 10cm X 6.5cm (spaced at about 90cm c/c )and supported dy casurina props of 10cm to 13cm dia (spaced of 75cm C/C) complying with standard specification and directed - 10 m 2 (P & D)Data 38			
A		<b>Plinth Beams</b>			
		Footing F1	14	x	34
		Footing F2	2	x	34
		Footing F3	2	x	34
		Pedestal	14	x	34
			2	x	34
			2	x	34
		Plinth Beam Longer side	60	x	15
			2	x	4
			3	x	4
		Plinth Beam Shorter side	2	x	34
		Leachte Drain	2	x	3
		Storm Water Drain	2	x	3
		Rain water Pipe portion	2	x	8
		Windrow Pad	2	x	34
			2	x	14
		<b>TOTAL</b>			
b		<b>Columns</b>			
		Column C1	1	x	476
		Column C2	1	x	68
		Column C3	1	x	68
		<b>TOTAL</b>			
c		<b>Beams and Slabs</b>			
		Tie Beam @ 3.00m level	2	x	2
			2	x	34
		Tie Beam @ 6.00m level	2	x	2
			2	x	34



Sl. No	Quantity	Description of work	Rate	Per	Amount
5		Plain Cement concrete 1:1.5 :3 (one cement,one and half sand & three course aggregate )using 20mm ,gauge hand broken/ and broken granite stone for all PCC items of works including cost and conveyance of all materials to site etc, complete.			
		Flooring	2	x	2
			2	x	2
			1	x	3
6		Reinforced Cement concrete 1:1.5 :3 (one cement,one and half sand & three course aggregate )using 20mm ,gauge hand broken/ and broken granite stone for all RCC items of works excluding centeringshuttering and cost of reinforcement grill ,out including curing etc.,complete and also including fixing fan clamps and fixtures in RCC works wherever necessary as directed by departmental officer etc., complete.			
		Footing F1	14	x	34
		Footing F2	2	x	34
		Footing F3	2	x	34
		Pedestal	14	x	34
			2	x	34
			2	x	34
		Plinth Beam Longer side	2	x	2
			2	x	2
			3	x	2
		Plinth Beam Shorter side	2	x	34
		Column C1	1	x	476
		Column C2	1	x	68
		Column C3	1	x	68
		Tie Beam @ 3.00m level	1	x	2
			1	x	34
		Tie Beam @ 6.00m level	1	x	2
			1	x	34
		<b>TOTAL</b>			
7		Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors -upto 16mm dia bars			
			1	x	1
		Flooring	1	x	1
8		Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors -Above 16mm dia bars			
			1	x	1
		Flooring	1	x	1

Sl. No	Quantity	Description of work	Rate	Per	Amount
9		Filling in foundation and basement with excavated earth in layers of not more than 15 cm thick well rammed watered and compacted etc., complete complying with standard specification.			
			1	x	1
10		Brick work in CM 1:5 (one cement & five sand) using II nd class ground moulded bricks of size 9"X4 1/2"X 3" standard specification including finishing, curing,etc., complete complying with standard specification			
		Basement	1	x	2
		Basement	1	x	8
		Walls Allround	2	x	33
		<b>TOTAL</b>	1	x	8
11		Plain Cement concrete 1:2:4 (one cement, two sand, four.aggregate) using 20mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.			
		Steps	1	x	2
			2	x	7
12		Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer and fixed on wall with sliding gear and moving to either sides and inclusive of all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.			
			1	x	2
13		Plastering with cement mortar 1:5 (One cement and five sand) ,12 mm ,thick in all floors including cost and conveyance of all materials to site etc,complete as per standard specifications (S.I.306)			
		Brick work Qty	1	x	2
14		Supplying, fabricating, erecting structural steel work for roofing welded or bolted type using MS channels, angles, plates and round bars etc. conforming tc IS specification including primer coating and enamel painting as per Design given by the departmental officers etc,complete as per standard specification			
		For One Truss			
		Bottom 2ISA 65 X 65 X 6mm	1	x	2
		Top 2ISA 65 X 65 X 6mm	1	x	2
		Vertical member ISMC 250 box	1	x	5
		Cross Member ISA 65 X 65 X 6mm	2	x	10

<b>Sl. No</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate</b>	<b>Per</b>	<b>Amount</b>
			1	x	4

Sl. No	Quantity	Description of work	Rate	Per	Amount
		Bolt & Nuts Total for One Truss Total for All Trusses Middle Truss two numbers Purlins Z 250 Middle Section	16 1 6 2	x x x x	6 2 14 7
		For Middle Truss - One Number Bottom 2ISA 65 X 65 X 6mm Top 2ISA 65 X 65 X 6mm Cross Member ISA 65 X 65 X 6mm	1 2 1 1 1 1 1 1	x x x x x x x x	2 2 2 2 2 2 2 2
		Total for One Truss Total for 34 Truss Purlins Z 250	1 1	x x	34 5
15		Supplying and fixing in position of best approved colour design and quality FRP sheets of 1.5mm thick with necessary 'U' or 'J' bolts, bitumen washers and cutting the FRP sheets to the required size.etc. complete.  Middle Truss	2 1 1 1	x x x x	12 2 2 2
16		Supply and fixing of FRP Sheet Ridge cover with all accessories such as J-Bolts, bitumen washers, nuts and washers etc including cost and conveyance of all materials to site etc, complete as per standard specification.	1 1	x x	8 1
17		Supply and fixing of 100 X 100 mm size PVC coated Diamond shape chain link weld mesh of 10 gauge fixed on wall by holdfasts of size 25 X 25 X 5mm ISA angle to a length of 230mm and Allround frame should be 25 X 25 X 5mm ISA Angle and in middle have a flat plate of size 50 X 6mm as shown in the drawing given and the cost includes of ISA angles, plates, weld mesh and welding, grinding, one coat of red oxide primer and two coats of Enamel painting and all accessories such as Bolts, washers, nuts and washers etc including cost and conveyance of all materials to site etc, complete as per standard specification.	2 2	x x	31 14

Sl. No	Quantity	Description of work	Rate	Per	Amount

Sl. No	Quantity	Description of work	Rate	Per	Amount
18		Cement concrete 1:3:6 (one cement, three sand, six aggregate) using 20mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted,etc., complete complying with standard specification.  Leachte Drain Storm Water Drain	2 2	x x	2 2
19		Providing & fixing PVC RAIN WATER DOWNFALL PIPE of 140mm dia with necessary T.W.Clamps Plugs, Shoes,Bends, other clamps, screws nails etc.,complete complying with standard specification. The rate is inclusive of cost of removable iron gratings of appropriate size. The size of Teak Wood plugs used is 150X25mm in front & 200x75mm in rear (wall side) with a depth of 140mm. The pipe is to be fixed by means of "U" clamps at the centre of pipes to be fixed. [4Kx/SnCrn]	14	x	8
20		Supply and laying of 315mm dia PVC pipe of 4KSC for removal of rain water form the rain water down fall pipe to Storm water drain and laying over the windrow pad by proper gradient and coverd by plain cement concrete.The cost inclusive of PVC pipe and labour charges but excluding the cost of centering and concrete etc,complete as per standard snecification.	2	x	8
21		Providing Rain water Gutters with PVC or FRP of size 250mm X 450mm and fixed by as shown in the drawing given. The rate inclusive of all metrials and labour charges to site etc,complete as per standard specification.	2	x	8

**PALLAVAPURAM MUNICIPALITY**  
**DETAILED ESTIMATE**

Name of work: Construction of Leachate Tank to Windrows Composting Project

Sl. No	Description of work	Length
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Sl. No	Quantity	Description of work	Rate	Per	Amount
1	1	Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel, stoney earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand, or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering, and baling out water wherever necessary refilling the sides of foundation with excavated soil other than sand in layers of 15cm thick well rammed and completed depositing the surplus excavated soil with in the compound in places shown by the departmental officers with intial lead and lifts and cleaning and levelling the site etc., complete  Leachate Tank	x	1	8.00
2	1	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm. thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification. Leachate Tank	x	1	8.00
3	1	Plain Cement concrete 1:5:10 (one cement, five sand, ten aggregate) using 40mm gauge hand broken granite stone jelly for foundation including dewatering if found necessary and laid in layers of not more than 15 cm thick and compacted, etc., complete complying with standard specification.	x	1	8.00
4	Raft Slab Side wall	Providing form work for shuttering and strutting etc., for all RCC items of work including cost and hire charges for materials and labour cost etc complete as per standard specification.	x x	1 2	24.00 24.00
5	Raft Slab Side wall	Reinforced cement concrete 1:1.5:3 is using 20mm ISS HBG metal including the cost and conveyance of all materials to site and labour charges for mixing, laying and curing charges etc complete as per standard specification	x x	1 2	8.00 12.00

<b>Sl. No</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate</b>	<b>Per</b>	<b>Amount</b>
6		Supplying and fabricating and placing in position steel reinforcement using Mild Steel or ribbed for steel rods for all RCC works as per the design given including cost of Steel and binding wire etc, complete in all floors complying with standard specification using MS plain rods or RTS rods.			
	1		x	1	29.40
		Provision for Water Proofing Treatment			
7					-
8		Provision for PVC Foot steps			-











































Length	Breadth	Depth	Quantity
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| 2.00 | 1.75 | 0.15 | 34.65|



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88.00	50.00	0.30	5280.00
77.00	50.00	0.30	4620.00
11.00	11.00	0.30	108.90
			<b>10008.90</b>
1.50	1.50	0.60	585.90
2.00	2.00	0.60	148.80
1.50	1.25	0.45	55.69
0.45	0.75	0.75	109.86
0.60	0.75	0.75	20.93
0.45	0.60	0.75	13.37
88.00	0.30	0.60	63.36
77.00	0.30	0.60	55.44
11.00	0.30	0.60	11.88
98.00	0.30	0.60	1199.52
0.30	0.60	7.00	546.84
0.45	0.60	7.00	117.18
0.30	0.45	7.00	62.37
366.00	0.30	0.60	131.76
98.00	0.30	0.60	546.84
366.00	0.30	0.60	131.76
98.00	0.30	0.60	546.84
			<b>4348.32</b>
4348.32	120.00	0.66	344.39
10008.90	30.00	0.34	102.09
			<b>446.48</b>
4348.32	120.00	0.34	177.41
10008.90	40.00	0.66	264.23
			<b>441.65</b>
366.00	112.00	0.30	12297.60

			<b>12297.60</b>
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340.00	0.23	0.45	70.38
98.00	0.23	0.45	81.14
10.00	0.23	1.50	227.70
98.00	0.23	1.50	270.48
			<b>649.70</b>
10.00	2.00	0.15	6.00
55.00	0.45	0.45	155.93
			<b>161.93</b>
10.00	4.00	-	80.00
80.00	25.00	-	<b>2000.00</b>
649.70	0.23	-	<b>5649.60</b>
22.30	11.60	-	517.36
22.30	11.60	-	517.36
1.50	30.40	-	228.00
2.40	5.80	-	278.40
1.78	5.80	-	41.30
		-	20.00
		-	<b>1602.42</b>
1602.42		-	153.83
1602.42	0.75		2.40
98.00	8.60	-	70.80
98.00	8.60	-	11.80

| | | - | **238.83** |

10.00	11.60	-	232.00
5.35	11.60	-	248.24
5.26	5.80	-	61.02
0.96	5.80	-	11.14
2.81	5.80	-	32.60
1.92	5.80	-	22.27
2.80	5.80	-	32.48
0.98	5.80	-	11.37
			<b>651.11</b>
651.11			22.14
360.00	8.60	-	15.48
			<b>276.45</b>
22.00	98.00	-	51744.00
22.00	98.00	-	4312.00
11.00	98.00	-	2156.00
5.50	362.00	-	3982.00
			<b>62194.00</b>
98.00	2.00	-	1568.00
360.00	2.00	-	720.00
			<b>2288.00</b>
11.00	3.70	-	2523.40
7.50	3.70	-	777.00
			<b>2523.40</b>

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370.00	0.20	0.45	133.20
370.00	0.25	0.60	222.00
			<b>355.20</b>
6.00	-	-	<b>672.00</b>
60.00	-	-	<b>960.00</b>
55.00	-	-	<b>880.00</b>
			L.S

Length	Breadth	Depth	Quantity
100.00	-	-	300.00

12.00	-	-	36.00
-	-	-	3.00
250.00	-	-	250.00
600.00	-	-	600.00
450.00	-	-	450.00
600.00	-	-	600.00
2800.00	-	-	2800.00
-	-	-	2.00
-	-	-	2.00

-	-	-	2.00
-	-	-	3.00
-	-	-	3.00
-	-	-	5.00
-	-	-	6.00

-	-	-	20.00
-	-	-	12.00
-	-	-	20.00
-	-	-	-
250.00	-	-	250.00
300.00	-	-	300.00
200.00	-	-	200.00
-	-	-	-
250.00	-	-	250.00
-	-	-	6.00
-	-	-	6.00
-	-	-	3.00

-	-	-	L.S
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Length	Breadth	Depth	Quantity
2.00	2.00	2.00	3472.00
2.50	2.50	2.00	775.00
2.00	1.75	2.00	420.00
270.00	0.60	0.90	291.60
36.00	0.60	0.90	1205.28
350.00	1.00	0.65	455.00
350.00	1.20	0.80	672.00
			<b>7290.88</b>
2.00	2.00	0.15	260.40
2.50	2.50	0.15	58.13
2.00	1.75	0.15	31.50
270.00	0.60	0.15	48.60
36.00	0.60	0.15	200.88
330.00	1.00	0.10	66.00
330.00	1.20	0.10	79.20
335.00	112.00	0.15	5628.00
			<b>6372.71</b>

2.00	2.00	0.15	260.40
2.50	2.50	0.15	58.13
2.00	1.75	0.15	31.50
270.00	0.60	0.15	48.60
36.00	0.60	0.15	200.88
330.00	1.00	0.10	66.00
330.00	1.20	0.10	79.20
335.00	112.00	0.10	3752.00
			<b>4496.71</b>
6.00	-	0.50	1428.00
8.00	-	0.50	272.00
5.50	-	0.50	187.00
2.40	-	0.75	856.80
2.70	-	0.75	137.70
2.10	-	0.75	107.10
9.00	-	0.15	1215.00
77.00	-	0.60	369.60
11.00	-	0.60	79.20
98.00	-	0.60	3998.40
370.00	-	0.45	999.00
370.00	-	0.60	1332.00
50.00	-	0.45	360.00
110.00	-	0.25	1870.00
360.00	-	0.25	2520.00
			<b>15731.80</b>
1.80	-	7.00	5997.60
2.10	-	7.00	999.60
1.50	-	6.00	612.00
			<b>7609.20</b>
366.00	-	1.50	2196.00
98.00	-	1.50	9996.00
366.00	-	1.50	2196.00
98.00	-	1.50	9996.00

			<b>24384.00</b>
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88.00	50.00	0.30	5280.00
77.00	50.00	0.30	4620.00
11.00	11.00	0.30	108.90
			<b>10008.90</b>
1.50	1.50	0.60	642.60
2.00	2.00	0.60	163.20
1.50	1.25	0.45	57.38
0.45	0.75	0.75	120.49
0.60	0.75	0.75	22.95
0.45	0.60	0.75	13.77
88.00	0.30	0.60	63.36
77.00	0.30	0.60	55.44
11.00	0.30	0.60	11.88
98.00	0.30	0.60	1199.52
0.30	0.60	7.00	599.76
0.45	0.60	7.00	128.52
0.30	0.45	7.00	64.26
366.00	0.30	0.60	131.76
98.00	0.30	0.60	599.76
366.00	0.30	0.60	131.76
98.00	0.30	0.60	599.76
			<b>4606.16</b>
4606.16	120.00	0.66	364.81
10008.90	30.00	0.34	102.09
			<b>466.90</b>
4606.16	120.00	0.34	187.93
10008.90	40.00	0.66	264.23
			<b>452.17</b>

366.00	112.00	0.30	12297.60 <b>12297.60</b>
340.00 98.00 10.00 98.00	0.23 0.23 0.23 0.23	0.45 0.45 1.50 1.50	70.38 81.14 227.70 270.48 <b>649.70</b>
10.00 55.00	2.00 0.45	0.15 0.45	6.00 155.93 <b>161.93</b>
10.00 80.00	4.00 25.00	- -	80.00 <b>2000.00</b>
649.70	0.23	-	<b>5649.60</b>
22.30 22.30 1.50 2.40	11.60 11.60 30.40 5.80	- - - -	517.36 517.36 228.00 278.40

| 1.78| 5.80| - | 41.30|

		-	20.00
		-	<b>1602.42</b>
1602.42		-	153.83
1602.42	0.75	-	2.40
98.00	8.60	-	70.80
98.00	8.60	-	11.80
		-	<b>238.83</b>
		-	
10.00	11.60	-	232.00
5.35	11.60	-	248.24
5.26	5.80	-	61.02
0.96	5.80	-	11.14
2.81	5.80	-	32.60
1.92	5.80	-	22.27
2.80	5.80	-	32.48
0.98	5.80	-	11.37
		-	<b>651.11</b>
651.11		-	22.14
360.00	8.60	-	15.48
		-	<b>276.45</b>
22.00	98.00	-	51744.00
22.00	98.00	-	4312.00
11.00	98.00	-	2156.00
5.50	362.00	-	3982.00
		-	<b>62194.00</b>
98.00	2.00	-	1568.00
360.00	2.00	-	720.00
		-	<b>2288.00</b>
11.00	3.70	-	2523.40
7.50	3.70	-	777.00

			<b>2523.40</b>
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370.00	0.20	0.45	133.20
370.00	0.25	0.60	222.00
			<b>355.20</b>
6.00	-	-	<b>672.00</b>
60.00	-	-	<b>960.00</b>
55.00	-	-	<b>880.00</b>

<b>Breadth</b>	<b>Depth</b>	<b>Quantity</b>
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4.00	2.80	89.60 <b>89.60</b>
4.00	0.15	4.80 <b>4.80</b>
4.00	0.15	4.80 <b>4.80</b>
- -	0.45 2.50	10.80 120.00 <b>130.80</b>
4.00 0.25	0.45 2.50	14.40 15.00 <b>29.40</b>

120.00	-	<b>3528.00</b>
		<b>35.28</b>
-	-	<b>L.S</b>
-	-	<b>L.S</b>