

PALLAVAPURAM MUNICIPALITY

ABSTRACT ESTIMATE

Name of work: Construction of Rest Room to Material Recovery Shed
For ONE STATION

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	20.25	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	1233.00
2	4.25	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	1307.00
3	4.25	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	7082.00
4	9.44	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	34760.00
5	141.78	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	36583.00

6	29.01	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	66918.00
7	29.75	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	2157.00
8	252.29	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	15788.00
9	252.29	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.	55.72	sqm	14058.00
10	28.73	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	16691.00
11	42.00	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	23902.00

12	0.76	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.	51495.50	MT	38902.00
13	18.72	Supply and fixing of PVC doors with all accssories such as hinges,tower bolts, handles, screws, alldrops and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	1350.00	sqm	25272.00
14	L.S	Provision for RCC jolly	L.S		1347.00
TOTAL					286000.00

PALLAVAPURAM MUNICIPALITY
ABSTRACT ESTIMATE

Name of work: Construction of Weigh bridge at Material Recovery Shed

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,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	3652.00
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 - 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. (Masonsry 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		3366.00
		TOTAL			245000.00

PALLAVAPURAM MUNICIPALITY

ABSTRACT ESTIMATE

Name of work: Construction of Office Building and other Ammenities to Material Recovery Shed
For ONE STATION

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	79.00	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	4809.00
2	20.00	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	6150.00
3	20.00	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	33328.00
4	36.00	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	132518.00
5	362.00	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	93407.00

6	54.00	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	124548.00
7	170.00	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	12325.00
8	465.00	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	29100.00
9	465.00	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.	55.72	sqm	25910.00
10	100.00	Laying the flooring with coloured Ceramic tiles of sizes 305mm X 305mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:3 (one cement ,three sand) over 10 mm base layer plastering and pointing with white cement neatly as directed.	581.00	sqm	58100.00
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

12	40.00	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	205982.00
13	5.00	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	9250.00
14	300.00	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	15246.00
15	8.00	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 ³	1306.66	cum	10453.00
16	100.00	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 ²	335.05	sqm	33505.00
		TOTAL			840728.00

ABSTRACT ESTIMATE

Name of work: Construction of Material Recovery Shed at Kannadapalayam, Tambaram

Sl. No	Quantity	Description of work	Rate	Per	Amount
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1	975.00	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	59348.00
2	197.10	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	60608.00
3	197.10	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 co	1666.38	cum	328443.00
4	322.14	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	1185815.00
5		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 .			0.00
a	302.76	Plinth beams	215.03	sqm	65102.00
b	297.00	Columns	309.63	sqm	91960.00
c	540.80	Beams and Slabs	258.03	sqm	139543.00

6	103.27	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	238187.00
7	898.00	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	56197.00
8	898.00	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 com	35.56	sqm	31933.00
9	354.35	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	5149.55	qtl	1824766.00
10	2814.40	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	182936.00
11	231.00	Supplying, fabricating, erecting of polycarbonate sheet for roofing . conforming to IS specification including cost and conveyance of all materials to site etc,complete as per standard specification	2100.00	sqm	485100.00

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	540.00	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	27443.00
14	338.63	Supply and fixing of Fibre Sheet Roof with all accssories 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.	450.00	sqm	152381.00
15	L.S	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		11038.00
		TOTAL			5000000.00

PALLAVAPURAM MUNICIPALITY
ABSTRACT ESTIMATE

Name of work: Providing B.T.Surface at Material Recovery Shed (For ONE STATION)

Sl. No	Quantity	Description of work	Rate	Per	Amount
1	367.50	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	43365.00

2	183.75	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	65231.00
3	77.50	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 specificatioin.	753.00	cum	58358.00
4	58.13	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 specificatioin.	885.00	cum	51441.00

5	58.13	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	990.00	cum	57544.00
6	775.00	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	31620.00
7	38.75	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	200184.00

8	775.00	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 premix 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	107725.00
		TOTAL			615468.00

Table 3.4 Transfer Stations cum Material Recovery Facility

S.No	Description	Nos	Cost per Unit (Rs)	Total Cost
	Transfer Station cum Material Recovery Facility			
1	Storage cum employee room	3	840000	25.20
2	Recovery facility	3	5000000	150.00
3	Establishments Sheds	3	1000000	30.00
4	Electrical Arrangements, Construction of compound wall and Storm water drains	3	725000	21.75
5	Road Arrangements	3	615000	18.45
6	Weigh bridge room	3	100000	3.00
7	Watch man shed	3	145000	4.35
8	Maintenance sheds for vehicles	3	939000	28.17
9	Bulk Refuse carriers-6 Nos	6	1566500	94.00
	Machineries & Equipments			
1	Weigh bridge including scale	3	1000000	30.00
2	Conveyor	3	2000000	60.00
3	Trommel	3	400000	12.00

4		Front end loader	3	2000000	60.00
		Total Cost			536.92