

Detailed Estimate

OD/367/3527/120664/406317/00015479 : Provision of Facility Centre at Ikiri GP Hqrs

Block : Nayagarh, Gram Panchayat : Ikiri

Created By: Muralidhar Rout

1. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift								
Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per the direction of the Engineer-in-charge								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	8.000	4.000	4.000	4.000	1.000	512.000	-
ii	LW	1.000	18.330	2.000	2.660	1.000	97.516	-
iii		1.000	8.580	2.000	2.660	1.000	45.646	-
iv		1.000	9.400	2.000	2.660	1.000	50.008	-
v	SW	1.000	17.000	2.000	2.660	1.000	90.440	-
vi		1.000	13.160	2.000	2.660	1.000	70.011	-
vii		1.000	3.830	2.000	2.660	1.000	20.376	-
viii	Landing step	1.000	6.000	4.000	1.000	1.000	24.000	-
ix	Ramp	1.000	10.000	4.000	1.000	1.000	40.000	-
Total Quantity					949.996 Cft (Cubic Foot)		26.9008467328 Cum (Cubic Meter)	
Amount					26.9008467328 X 240.77592		6477.08	
2. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed								
Filling foundation and plinth with sand well watered and rammed including cost, conveyance, royalty, taxes of all materials, labours and T & P required for the work etc. complete and as per direction of Engineer-in charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	8.000	4.000	4.000	0.500	1.000	64.000	-
ii	LW	1.000	19.830	2.000	0.330	1.000	13.088	-

iii		1.000	9.080	2.000	0.330	1.000	5.993	-
iv		1.000	9.910	2.000	0.330	1.000	6.541	-
v	SW	1.000	18.000	2.000	0.330	1.000	11.880	-
vi		1.000	13.660	2.000	0.330	1.000	9.016	-
vii		1.000	4.330	2.000	0.330	1.000	2.858	-
viii	Landing step	1.000	6.000	4.000	0.330	1.000	7.920	-
ix	Ramp	1.000	10.000	4.000	0.330	1.000	13.200	-
x	Inside Room	1.000	16.330	26.000	1.660	0.000	704.803	-
xi		1.000	7.000	12.580	1.660	0.000	146.180	-
Total Quantity					985.477 Cft (Cubic Foot)		27.9055551136 Cum (Cubic Meter)	
Amount					27.9055551136 X 780.783732		21788.20	

3. Concrete (AR0303a) : Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal

Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal including laying in layers not exceeding 300 mm in depth, ramming, compacting to proper thickness, watering and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	8.000	4.000	4.000	0.500	1.000	64.000	-
ii	LW	1.000	19.830	2.000	0.330	1.000	13.088	-
iii		1.000	9.080	2.000	0.330	1.000	5.993	-
iv		1.000	9.910	2.000	0.330	1.000	6.541	-
v	SW	1.000	18.000	2.000	0.330	1.000	11.880	-
vi		1.000	13.660	2.000	0.330	1.000	9.016	-
vii		1.000	4.330	2.000	0.330	1.000	2.858	-
viii	Landing step	1.000	6.000	4.000	0.330	1.000	7.920	-
ix	Ramp	1.000	10.000	4.000	0.500	1.000	20.000	-

x	Inside Room	1.000	16.330	26.000	0.330	0.000	140.111	-
xi		1.000	7.000	12.580	0.330	0.000	29.060	-
Total Quantity					310.4658 Cft (Cubic Foot)		8.79139796544 Cum (Cubic Meter)	
Amount					8.79139796544 X 5171.4398043		45464.19	

4. Masonry Brick Work (AR0603b) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth

Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth having crushing strength not less than 75.00 Kg/cm² with dimensional tolerance ± 8 percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	1St Footing LW	1.000	22.830	1.660	1.000	1.000	37.898	-
ii		1.000	10.580	1.660	1.000	1.000	17.563	-
iii		1.000	11.410	1.660	1.000	1.000	18.941	-
iv	SW	1.000	23.000	1.660	1.000	1.000	38.180	-
v		1.000	15.160	1.660	1.000	1.000	25.166	-
vi		1.000	5.830	1.660	1.000	1.000	9.678	-
vii	2nd Footing LW	1.000	25.160	1.250	1.000	1.000	31.450	-
viii		1.000	12.580	1.250	1.000	1.000	15.725	-
ix		1.000	12.580	1.250	1.000	1.000	15.725	-
x	SW	1.000	22.500	1.250	1.000	1.000	28.125	-
xi		1.000	15.500	1.250	1.000	1.000	19.375	-
xii		1.000	7.000	1.250	1.000	1.000	8.750	-
xiii	Upto Plinnth Level	1.000	25.160	0.830	1.000	1.000	20.883	-
xiv		1.000	12.580	0.830	1.000	1.000	10.441	-
xv		1.000	12.580	0.830	1.000	1.000	10.441	-

xvi	SW	1.000	22.500	0.830	1.000	1.000	18.675	-
xvii		1.000	15.500	0.830	1.000	1.000	12.865	-
xviii		1.000	7.000	0.830	1.000	1.000	5.810	-
xix	Landing	1.000	10.000	4.000	2.000	1.000	80.000	-
Total Quantity					425.6902 Cft (Cubic Foot)		12.05418425536 Cum (Cubic Meter)	
Amount					12.05418425536 X 5033.95815384		60680.26	

5. Masonry Brick Work (AR0603bi) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure

Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure having crushing strength not less than 75.00 Kg/cm² with dimensional tolerance ± 8 percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	LW	2.000	25.160	0.830	9.500	1.000	396.773	-
ii		1.000	12.580	0.830	9.500	1.000	99.193	-
iii	SW	1.000	22.500	0.830	9.500	1.000	177.413	-
iv		1.000	15.500	0.830	9.500	1.000	122.217	-
v		1.000	7.000	0.830	9.500	1.000	55.195	-
vi		1.000	7.000	0.410	10.000	1.000	28.700	-
vii	D 1	1.000	4.000	0.830	7.000	1.000	-	23.240
viii	D 2	2.000	2.500	0.830	7.000	1.000	-	29.050
ix	W	4.000	4.000	0.830	4.500	1.000	-	59.760
x	V	2.000	1.500	0.830	1.500	1.000	-	3.735
Total Quantity					763.7065 Cft (Cubic Foot)		21.6257242192 Cum (Cubic Meter)	
Amount					21.6257242192 X 5067.28815384		109583.78	

6. R.C.C. Work (AR0404Aa) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC foundation, footing bases of column, mass concrete, pre-cast slabs etc.)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column Base	8.000	3.500	3.500	1.000	1.000	98.000	-
ii		8.000	2.000	2.000	1.000	1.000	32.000	-
Total Quantity					130 Cft (Cubic Foot)		3.681184 Cum (Cubic Meter)	
Amount					3.681184 X 6003.5339553975		22100.11	

7. R.C.C. Work (AR0404Ab) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Plinth band)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	PB LW	2.000	25.160	0.830	1.000	1.000	41.766	-
ii		1.000	12.580	0.830	1.000	1.000	10.441	-
iii	SW	1.000	22.500	0.830	1.000	1.000	18.675	-
iv		1.000	15.500	0.830	1.000	1.000	12.865	-
v		1.000	7.000	0.830	1.000	1.000	5.810	-
vi		1.000	7.000	0.410	1.000	1.000	2.870	-
Total Quantity					92.427 Cft (Cubic Foot)		2.6172368736 Cum (Cubic Meter)	
Amount					2.6172368736 X 6760.3560805392		17693.45	

8. R.C.C. Work (AR0404Ac) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Beams, Column, Girder & Bressmer etc)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
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i	Roof Beam LW	2.000	26.660	0.830	0.500	1.000	22.128	-
ii		1.000	7.830	0.830	0.500	1.000	3.249	-
iii	SW	1.000	22.500	0.830	0.500	1.000	9.338	-
iv		1.000	15.500	0.830	0.500	1.000	6.433	-
v		1.000	7.000	0.830	0.500	1.000	2.905	-
vi	Roof Beam Hanging	1.000	16.330	0.830	1.000	1.000	13.554	-
vii	Column Super structure	6.000	0.830	1.250	13.500	1.000	84.038	-
viii		2.000	0.830	0.830	13.500	1.000	18.600	-
Total Quantity					160.24395 Cft (Cubic Foot)		4.53759588336 Cum (Cubic Meter)	
Amount					4.53759588336 X 14059.287342717		63795.36	
9. R.C.C. Work (AR0404Ad) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips								
Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Lintels)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Lintel LW	2.000	25.160	0.830	0.500	1.000	20.883	-
ii		1.000	12.580	0.830	0.500	1.000	5.221	-
iii	SW	1.000	22.500	0.830	0.500	1.000	9.338	-
iv		1.000	15.500	0.830	0.500	1.000	6.433	-
v		1.000	7.000	0.410	0.500	1.000	1.435	-
vi	Roof Beam Hanging	1.000	7.000	0.830	0.500	1.000	2.905	-
Total Quantity					46.2135 Cft (Cubic Foot)		1.3086184368 Cum (Cubic Meter)	

Amount						1.3086184368 X 12667.818183928	16577.34	
10. R.C.C. Work (AR0404Ag) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips								
Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Roof slab, landing, balcony, sun shade)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Roof Slab	1.000	26.830	15.250	0.410	1.000	167.755	-
ii		1.000	19.000	13.410	0.410	1.000	104.464	-
iii	Chajja	5.000	5.000	1.660	0.250	1.000	10.375	-
Total Quantity						282.593475 Cft (Cubic Foot)	8.00214291288 Cum (Cubic Meter)	
Amount						8.00214291288 X 12305.418359788	98469.72	
11. R.C.C. Work (AR0409) : Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position								
Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge with cost of steel rod and as per drawing, design, and direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Conc. Qnty	1.000	20.000	0.000	0.000	1.000	20.000	-
Total Quantity						20 Qntl (Quintal)	20 Qntl (Quintal)	
Amount						20 X 8929.3601565	178587.20	
12. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over brick work in inside.								
20mm thick cement Plaster in CM (1:4) over stone work in inside including racking out joints finishing smooth with proper plumb and line, curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc comp.and as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Roof Slab	1.000	26.830	15.250	0.000	1.000	409.158	-
ii		1.000	19.000	13.410	0.000	1.000	254.790	-

Total Quantity	663.9475 Sft (Square Foot)	61.6827145925 Sqm (Square Meter)
Amount	61.6827145925 X 273.326479568	16859.52

13. Plastering (AR1027) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)

6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Chajja	10.000	5.000	2.000	0.000	1.000	100.000	-
ii	Celling	1.000	16.330	26.000	0.000	1.000	424.580	-
iii		1.000	7.000	6.000	0.000	0.000	42.000	-
iv		1.000	7.000	6.160	0.000	0.000	43.120	-
v	Fin	2.000	53.500	1.000	0.000	0.000	107.000	-
Total Quantity					716.7 Sft (Square Foot)		66.5835801 Sqm (Square Meter)	
Amount					66.5835801 X 191.862628384		12774.90	

14. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.

16mm thick cement Plaster in CM (1:6) over brick work in inside including racking out joints finishing smooth with proper plumb and line, curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc comp. and as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Inside	2.000	42.330	0.000	10.500	1.000	888.930	-
ii		2.000	13.000	0.000	10.500	1.000	273.000	-
iii		2.000	13.160	0.000	10.500	1.000	276.360	-
iv	D 1	0.500	4.000	0.000	7.000	0.000	-	14.000
v	D 2	2.000	2.500	0.000	7.000	0.000	-	35.000
vi	W	2.000	4.000	0.000	4.500	0.000	-	36.000
vii	V	1.000	1.500	0.000	1.500	0.000	-	2.250

Total Quantity		1351.04 Sft (Square Foot)		125.51566912 Sqm (Square Meter)				
Amount		125.51566912 X 247.84224461		31108.09				
15. Plastering (AR1004) : 12mm thick cement plaster (1:6) over Brick work in inside								
12mm thick cement plaster (1:6) over Brick work in inside including racking out joints finishing smooth with proper plumb and line curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc. comp. and as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Outside	2.000	25.830	0.000	12.500	1.000	645.750	-
ii		2.000	27.660	0.000	12.500	1.000	691.500	-
iii	D 1	0.500	4.000	0.000	7.000	0.000	-	14.000
iv	W	2.000	4.000	0.000	4.500	0.000	-	36.000
v	V	1.000	1.500	0.000	1.500	0.000	-	2.250
Total Quantity		1285 Sft (Square Foot)		119.380355 Sqm (Square Meter)				
Amount		119.380355 X 172.965007426		20648.62				
16. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory								
Supplying, fitting & fixing Vitrified Tile 600mmx600mm Plain Ivory in floors of size 600mm x 600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar(1:4) and filling joints with white cement of approved quality including cost of all materials, taxes, labour, T&P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Floor	1.000	16.330	0.000	26.000	1.000	424.580	-
ii		2.000	42.330	0.000	0.500	1.000	42.330	-
Total Quantity		466.91 Sft (Square Foot)		43.37733973 Sqm (Square Meter)				
Amount		43.37733973 X 1004.006656061		43551.14				
17. Flooring (AR0817b) : Fixing ceramic tiles (20cmx30cm / 20cmx20cm special plain/printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753)								

Fixing ceramic tiles (20cmx30cm / 20cmx20cm special plain/printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753) in wall cladding on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Latrine	2.000	13.000	0.000	7.000	1.000	182.000	-
ii		2.000	13.160	0.000	7.000	1.000	184.240	-
iii	D 2	2.000	2.500	0.000	7.000	0.000	-	35.000
Total Quantity					331.24 Sft (Square Foot)		30.77318972 Sqm (Square Meter)	
Amount					30.77318972 X 884.241893836		27210.94	

18. Painting (AR0901d) : Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces (Inner surface)

Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Qty No 10+11+12-14	1.000	280.970	0.000	1.000	1.000	280.970	-
Total Quantity					280.97 Sqm (Sqm)		280.97 Sqm (Square Meter)	
Amount					280.97 X 71.83248932951		20182.77	

19. Painting (AR0918f) : Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work(Outside)

Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work to give an even shade including all costs of labour, Paint, Brushes, and putty required for the work, etc. complete and as per direction of Engineer-in-charge. (Outside)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Outside	2.000	25.830	0.000	12.500	1.000	645.750	-
ii		2.000	27.660	0.000	12.500	0.000	691.500	-
iii	Chajja	10.000	5.000	0.000	2.000	0.000	100.000	-
iv	D 1	0.500	4.000	0.000	7.000	0.000	-	14.000
v	W	2.000	4.000	0.000	4.500	0.000	-	36.000

vi	V	1.000	1.500	0.000	1.500	0.000	-	2.250
Total Quantity					1385 Sft (Square Foot)		128.670655 Sqm (Square Meter)	
Amount					128.670655 X 87.8656910875		11305.74	
20. Painting (AR0920) : Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside)								
Finishing wall two coats with plastic emulsion paint of approved shades on new work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Qty No 16-17	1.000	152.300	0.000	1.000	1.000	152.300	-
Total Quantity					152.3 Sqm (Sqm)		152.3 Sqm (Square Meter)	
Amount					152.3 X 94.7400035875		14428.90	
21. Flooring (AR0816) : Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755) in floor								
Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755) in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1 (1cement: 1sand) jointed with neat cement slurry mixed with pigment to match the shades of the ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Toilet Floor	1.000	7.000	0.000	6.160	1.000	43.120	-
ii		1.000	7.000	0.000	6.000	1.000	42.000	-
iii	Landing	1.000	6.000	0.000	4.000	1.000	24.000	-
iv		1.000	10.000	0.000	4.000	1.000	40.000	-
Total Quantity					149.12 Sft (Square Foot)		13.85369536 Sqm (Square Meter)	
Amount					13.85369536 X 1198.31608065		16601.11	
22. Iron Work (AR1704) : Iron Doors and windows fixing								
Supplying, fitting & fixing of Mild steel and put up for frames & shutters of Doors and windows fixing in position with cost, conveyance, taxes of all materials, labours and T & P required for the work etc. as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction

i	Grill Window	4.000	4.000	4.500	0.000	2.000	144.000	-
ii	Door	1.000	4.000	7.000	0.000	2.000	56.000	-
iii	Window Shutter	4.000	4.000	4.500	0.000	3.000	216.000	-
Total Quantity					416 Kg (Kilo Gram)		4.16 Qntl (Quintal)	
Amount					4.16 X 16248.316237087		67593.00	
Total Amount							923481.42	
Addition								
Provision for PH Work (+) @							38518.20	
Provision for EI Work (+) @							30000.00	
Provision for Contingency (+) @							0.00	
Display Citizen Board (+) @							1000.00	
Any Other Lumpsum (+) @							7000.00	
Total Addition							76518.20	
Grand Net Total Amount							999999.62	