

Name of Work :Estimate prepared for Construction of Tin shed for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

ESTIMATE



DIVISION	:-	
SANCTIONED ESTIMATE	:-	2756700
FUND HEAD	:-	
MAJOR HEAD	:-	
MINOR HEAD	:-	
SERVICE HEAD	:-	
DEPARTMENTAL HEAD	:-	

Name of Work :Estimate prepared for Construction of Tin shed for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

Administrative Approved under

No. Dated 2756700


Technical sanction under

No. Dated 2756700

Estimated prepared by :- Er. K.V.Amrutwad

And checked by :-

(Call or Authority)


K.V. AMRUTWAD
 B.E. (CIVIL)
 CONSULTING ENGINEER
 R.No.TP/NWCMC/ENGG/44

Name of Work :Estimate prepared for Construction of Tin shed for Bhandare farmer producer company limited
G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

RECAPITULATION SHEET

(A) COST OF Civil WORK	Rs.	2294536
(B) Add Royalty	Rs.	26139
(C) Add 18% GST	Rs.	413017
(D) Add 1% Insurance	Rs.	22945
(E) Add Contigencies		63
TOTAL	Rs.	2756700

K.V.
K.V. AMRUTWAD
B.E. (Civil)
CONSULTING ENGINEER
R.No.TP/NWCMCI/ENGG/44

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Name of Work : Estimate prepared for Construction of Tin shed for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

ABSTRACT SHEET					
Sr. No.	Item Description	Quantity	Rate	Unit	Amount
1	Excavation for foundation in earth, soils of all types, sand gravel and soft murum, including the removing the excavate material up to a distance of 50 meter beyond the building area preparing the bed for the foundation and necessary back filling ramming watering (including shoring and strutting etc complete life up to 1.50metre).(Item No. 21.02 BDA 1 ; Page.No.197)	9.07	207.00	Cum	1877.90
2	Excavation for foundation in hard murum including removing the excavated material ---etc. complete (Item No.21.06 BDA 2 Page.No.197)	24.19	227.00	Cum	5491.58
3	Filling in plinth and floors with contractors soil ,sand or murum in 15cm to20cm (Item No.21.37 BDA 11 Page.No.201)	83.60	599.00	Cum	50075.81
4	Providing and laying in situ cement concrete in 1:3:6 of trap/ granite /quartzite /gneiss metal for foundation and bedding --- etc. complete. (Item No.24.01 BDE 1B Page.No.226)	3.02	5592.44	Cum	16911.53
5	Providing and laying in situ. Cement concrete M-15/1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting, curing etc. complete. Bd.E.1 Page No.287 (l.no.24.16, p.no.229)	18.58	6127.37	Cum	113831.59
6	Providing and laying insitu c.c. M-20 of trap/ for footing ,etc.complete.(Item No.25.11 BDF 3 Page.No.230)	4.31	6877.12	Cum	29634.88
7	Providing and casting in situ cement concrete M-20 of trap/ geanite /quartzite gneiss metal for reinforced -cement concrete columns - etc. complete. (Item No.25.31,BDF 5 Page.No.232)	6.47	13556.12	Cum	87696.15
	Ground floor --				
8	Providing and casting in situ cement concrete M- 20 of trap/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels ...etc complete. (Excluding reinforcement)(8.50 bag/cum)(Item No.25.50 BDF 6A Page.No.234)	3.90	12042.12	Cum	46962.81
	Ground floor --				
9	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.25.70 BDF 8 Page.No.226)	0.83	13705.12	Cum	11347.84
10	Providing and laying Cast in situ/Ready Mixcement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.26.05 BDF 9 Page.No.239)	1.28	13705.12	cum	17515.14
11	Providing & fixing in position T.M.T.bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundation, slabs, beams, columns, canopies, stair case, newels, chajjas, lintels, pardis, copings, fins, arches -etc. complete .(Item No.26.33, BDF 17A Page.No.245)	2.62	89703.00	M.T.	234768.68

Sr. No.	Item Description	Quantity	Rate	Unit	Amount
12	Providing masonry with conventional/ Indian standard type bricks in c.m. 1:6 in foundation and plinth –etc. complete. (Item No.27.03 BDG 1 Page.No.254)				
	Ground floor --	6.56	7438.04	Cum	48802.90
13	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete (Item No 27.05 BDG 1 Page No 254)				
	Ground floor --	25.31	7918.04	Cum	200399.30
14	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.(Item No.32.11 BDG				
	Ground floor --	186.23	638.97	Sqm	118997.97
15	Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces etc.complete. (Item No.32.03 BDL 2 Page.No.268)				
	Ground floor --	161.84	270.97	Sqm	43853.00
16	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)(Item No.39.24 BDT Page.No.318)				
	Ground floor --	9.00	66.97	Sqm	602.73
17	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and				
	Ground floor --	18.72	2097.00	Sqm	39255.84
18	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With powder coating with box (Item No 39.39 BDT Page No 322)				
	Ground floor --	18.72	4794.00	Sqm	89743.68
19	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. (Item No.35.15 , Page.No.287)				

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Sr. No.	Item Description	Quantity	Rate	Unit	Amount
	Qty. as per I. No.14	186.23	104.00	Sqm	19368.34
20	Providing and applying washable oil bound distemper of approved colour and shade to old and new two coats, including scaffolding if necessary, cleaning and preparing the surface complete. Complete. (I.No.36.11.,p.no.291) item code- BDP5A-p.no.413				
	Qty. as per I. No.15	161.84	48.00	Sqm	7768.18
21	Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil painting complete. Bd.c.3 page No.275, (I.No.23.01,P.no.223)	7.30	101844.00	M.T,	743845.38
22	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanized iron screws and bolts, lead and bitumen washers etc. complete. (Weight of 6.8 kg/sq.m.). (I.No.38.05,P.No.297)	283.46	1139.00	Sqm	322865.04
23	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythylene and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20 000 litres	2000.00	13.00	lit	26000.00
24	Providing and fixing on walls/ ceiling/ floor 32mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete	20.00	584.00	rgm	11680.00
25	Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete	20.00	262.00	rgm	5240.00
	Total Rs.				2294536.26
				Total	2294536.26
				Say	2294536


K.V. AMRUTWAD
 B.E. (Civil)
 CONSULTING ENGINEER
 R.No.TP/NWCMC/ENGG/44

Sr. No.	Item Description	Nos	Length (M)	Breadth (M)	Height/ Dept. (M)	Quantity	Units
9	Providing and laying cast in situ ready mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.25.70 BDF 8 Page.No.236)	1	3.60	2.00	0.12	0.83	
	G.F.-Shutter Landing -1x1						
					Total qty.	0.83	Cum
10	Providing and laying cast in situ ready mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.26.05 BDF 9	13	1.50	0.45	0.08	0.70	
	Godown Window chajja --						
	Rolling Shutter Chajja	1	3.60	2.00	0.08	0.58	
					Total qty.	1.28	Cum
11	Providing & fixing in position T.M.T.bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundation, slabs, beams, columns, canopies, stair case, newels, chajjas, lintels, pardis, copings, fins, arches -etc. complete (Item No. 26.33 BDF 17A Page No. 245)						
	Plinth Slab	1	18.58	60	1.00	1114.65	
	Footing	1	4.31	70.00	1.00	301.64	
	Column	1	6.47	100.00	1.00	646.91	
	Beam	1	3.90	100.00	1.00	389.99	
	Landing	1	0.83	90.00	1.00	74.52	
	Chajja	1	1.28	70.00	1.00	89.46	
	Total					2617.18	
	Total					2.62	M.T
12	Providing masonry with conventional/ Indian standard type bricks in c.m. 1:6 in foundation and plinth -etc. complete. (Item No.27.03 BDG 1 Page.No.254)						
	Godown -Plinth beam-- -- 1x2	2	12.19	0.23	0.52	2.92	
	--1x2	2	15.24	0.23	0.52	3.65	
	Total					6.56	Cum
13	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete. (Item No.27.05 BDG 1 Page.No.254)						
	Godown---	8	2.59	0.23	3.00	14.30	
		4	4.24	0.23	3.00	11.70	
	Total					26.00	Cum
	Deduction -- Rolling Shutter - 1x3	1	3.00	0.23	1.00	0.69	
					Total qty.	0.69	Cum

Sr. No.	Item Description	Nos	Length (M)	Breadth (M)	Height/Dept. (M)	Quantity	Units
	Net Total Qty.			26.00	0.69	25.31	Sqm
14	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.(Item No.32.11 BDG 7 Page.No.269)						
	Outer side-- Godown	2	12.19		3.90	95.08	
		2	15.24		3.90	118.87	
					Total qty.	213.95	Sqm
	Deduction --Godown-- Rolling Shutter- Window	1	3.00		3.00	9.00	
		13	1.20		1.20	18.72	
					Total qty.	27.72	Sqm
	Net Total Qty.			213.95	27.72	186.23	Sqm
15	Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces etc.complete. (Item No.32.03 BDL 2 Page.No.268)						
	Inner side-- Godown	2	12.19	2.95		71.92	
		2	15.24	2.95		89.92	
					Total qty.	161.84	
					Net qty.	161.84	sqm
16	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)(Item No.39.24 BDT Page.No.318)	1	3		3	9.00	Sqm
17	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete (Item No.40.01 BDU 1 Page.No.338)						
	Grill work	13	1.2		1.2	18.72	
					Total qty.	18.72	Sqm

Sr. No.	Item Description	Nos	Length (M)	Breadth (M)	Height/ Dept. (M)	Quantity	Units
18	1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc.	13	1.2		1.2	18.72	
	Window				Total qty.	18.72	Sqm
19	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. (Item No.35.15 , Page.No.287) Qty. as per I. No.14					186.23	Sqm
20	Providing and applying washable oil bound distemper of approved colour and shade to old and new two coats, including scaffolding if necessary, cleaning and preparing the surface complete. Complete (I.no.36.11,,p.no.291) item code- BDP5A-p.no.413 Qty. as per I. No.15					161.84	Sqm
21	providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil paintig complete R/c 3 name No 275 / square Hallow section post support ---200x200x4 @ 24.40 kg/m	20	3.65			24.40	1781.20
	Square Hallow Section , A.--75x75x4 @ 8.70 kg/m -- 2x5	6	9.17			9.66	531.49
	-- 50x50x4 @ 5.72 kg/m --2x2x5	6	2.59			8.22	127.74
	-- 50x50x4 @ 5.72kg/m-- 1x5	6	2.49			8.22	122.81
	-- 50x50x4 @ 5.72kg/m-- 2x5	6	1.99			8.22	98.15
	B--50x50x4 @ 5.72 Kg/M-2x5	6	2.77			8.22	136.62
	--50x50x4 @ 5.72 Kg/M-2x5	6	2.33			8.22	114.92
	C--50x50x4 @ 5.72 Kg/M-2x5	6	1.49			8.22	73.49
	--50x50x4 @ 5.72 Kg/M-2x5	6	1.00			8.22	49.32
	--50x50x4 @ 5.72 Kg/M-2x5	6	0.50			8.22	24.66
	D--50x50x4 @ 5.72 Kg/M-2x5	6	1.99			8.22	98.15
	--50x50x4 @ 5.72 Kg/M-2x5	6	1.57			8.22	77.43
	Purlin- 50x50x4 @ 5.72 Kg/M- 2x5	6	15.24			8.22	751.64
	Tie Leval Runner-50x50x6 @ 4.50Kg/M-1x3	6	15.24			4.50	411.48
	Base Plate- 350x350x10mm th.	30'	0.35	0.35		78.50	288.49
	Gusset Plate-250x250x 8 mm th.	15	0.25	0.25		62.80	58.88
	3x2x5	15	0.45	0.45		62.80	190.76

Sr. No.	Item Description	Nos	Length (M)	Breadth (M)	Height/Dept. (M)	Quantity	Units
	1x2x5	8	0.30	0.30	62.80	45.22	
	1x2x5	8	0.30	0.30	62.80	45.22	
	1x2x5	8	0.30	0.30	62.80	45.22	
	1x2x5	8	0.30	0.30	62.80	45.22	
	Fillet weld -6mm size - 15 Kg/Truss	8			15.00	120.00	
	16 mm Dia. 48 No. Bolt 0.60 M L.	180	1.00	0.60	1.58	170.64	
	side Purlin- 50x50x4 @ 5.72 Kg/M- 2x2	2	60.65		5.72	693.87	
		2	105.00		5.72	1201.20	
					Total qty. say	7303.77 kg 7.30 M.T.	
22	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 kg/sq.m.). (I.No.38.05,P.No.297)						
	Top sheets----	1	12.19	15.24		185.78	
	Side sheets----	2	15.24	1.5		45.72	
		2	12.19	1.5		36.57	
		2	1.20x9.38/2		3.91	7.82	
	Ridge ---	1	12.63	0.6		7.58	
					Total qty.	283.46 sqm	
23	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythylar and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres						
	Water Tank	2			1000	2000.00	
					Total qty.	2000.00 lit	
24	Providing and fixing on walls/ ceiling/ floor 32mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.						
		1				20.00	
					Total qty.	20.00 rgm	
25	Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.						
		1				20.00	
					Total qty.	20.00 rgm	



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Name of Work :Estimate prepared for Construction of Tin shed for Bhandare farmer producer company limited G.no.202 AT-Pimpalgaon Tq.Dharmabad,Dist.Nanded

RATE ANALYSIS

Sr. No.	Item Description	Per unit Quantiy	Lead charges Rs.per unit	Total Amount in Rs.	Units
1	Excavation for foundation in earth, soils of all types, sand gravel and soft murum, including the removing the excavate material up to a distance of 50 meter beyond the building area preparing the bed for the foundation and necessary back filling ramming watering (including shoring and strutting etc complete life up to 1.50metre).(Item No. 21.02 BDA 1 ; Page.No.197)			207.00	
	A)Ground Floor-Rate as per SSR 2022-2023			207.00	Cum
	Total			207.00	Cum
2	Excavation for foundation in hard murum including removing the excavated material ---etc. complete (Item No.21.06 BDA 2 Page.No.197)			227.00	
	A)Ground Floor-Rate as per SSR 2022-2023			227.00	Cum
	Total			227.00	Cum
3	Filling in plinth and floors with contractors soil ,sand or murum in 15cm to20cm (Item No.21.37 BDA 11 Page.No.201)			599.00	
	A)Ground Floor-Rate as per SSR 2022-2023			0.00	
	i) Murum	1.00	0.00	0.00	
	Total			599.00	Cum
4	Providing and laying in situ cement concrete in 1:3:6 of trap/ granite /quartzite /gneiss metal for foundation and bedding --- etc. complete. (Item No.24.01 BDE 1B Page.No.226)			5830.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada			Total 5704.00	
	B)Deduct Royalty charges of sand	0.47	237.37	111.56	
	C) Sub Total		C=A-B	5592.44	
	D) Add Lead Charges			0.00	
	i) Metal	0.94	0.00	0.00	
	ii) Sand	0.47	0.00	0.00	
	iii) Cement	4.40	0.00	0.00	
	Total			5592.44	Cum
5	Providing and laying in situ. Cement concrete M-15/1:2:4 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water manually , formwork, compacting, curing etc. complete. Bd.E.1 Page No.287 (l.no.24.16, p.no.229)			6359.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada			Total 6233.00	
	B)Deduct Royalty charges of sand	0.445	237.37	105.63	
	C) Sub Total		C=A-B	6127.37	
	D) Add Lead Charges			0.00	
	i) Metal	0.92	0.00	0.00	
	ii) Sand	0.45	0.00	0.00	
	iii) Cement	6.40	0.00	0.00	

Sr. No.	Item Description	Per unit Quantiy	Lead charges Rs.per unit	Total Amount in Rs.	Units
	Total			6127.37	Cum
6	Providing and laying insitu c.c. M-20 of trap/ for footing ..etc.complete.(Item No.25.11 BDF 3 Page.No.230)			7104.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada				
			Total	6978.00	
	B)Deduct Royalty charges of sand	0.425	237.37	100.88	
			C=A-B	6877.12	
	C) Sub Total			0.00	
	D) Add Lead Charges				
	i) Metal	0.85	0.00	0.00	
	ii) Sand	0.43	0.00	0.00	
	iii) Cement	7.00	0.00	0.00	
	Total			6877.12	Cum
7	Providing and casting in situ cement concrete M-20 of trap/ geanite /quartzite gneiss metal for reinforced - cement concrete columns - etc. complete. (Item No.25.31,BDF 5 Page.No.232)			13783.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada				
			Total	13657.00	
	B)Deduct Royalty charges of sand	0.425	237.37	100.88	
			C=A-BC	13556.12	
	C) Sub Total			0.00	
	D) Add Lead Charges				
	i) Metal	0.85	0.00	0.00	
	ii) Sand	0.43	0.00	0.00	
	iii) Cement	7.00	0.00	0.00	
	Total			13556.12	Cum
8	Providing and casting in situ cement concrete M- 20 of trap/ quartzite/ gneiss metal for reinforced cement concrete beams and lintelsetc complete. (Excluding reinforcement)(8.50 bag/cum)(Item No.25.50 BDF 6A Page.No.234)			12269.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada				
			Total	12143.00	
	B)Deduct Royalty charges of sand	0.425	237.37	100.88	
			C=A-B	12042.12	
	C) Sub Total			0.00	
	D) Add Lead Charges				
	i) Metal	0.85	0.00	0.00	
	ii) Sand	0.43	0.00	0.00	
	iii) Cement	7.00	0.00	0.00	
	Total			12042.12	Cum

Sr. No.	Item Description	Per unit Quantiy	Lead charges Rs.per unit	Total Amount in Rs.	Units
9	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.25.70 BDF 8 Page.No.236)			13932.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada			Total 13806.00	
	B)Deduct Royalty charges of sand	0.425	237.37	100.88	
	C) Sub Total		C=A-B	13705.12	
	D) Add Lead Charges			0.00	
	i) Metal	0.85	0.00	0.00	
	ii) Sand	0.43	0.00	0.00	
	iii) Cement	7.00	0.00	0.00	
	Total			13705.12	Cum
10	Providing and laying Cast in situ/Ready Mixcement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)(Item No.26.05 BDF 9 Page.No.239)			13932.00	
	A)Ground Floor-Rate as per SSR 2022-2023			126.00	
	Deduct 126 rupees For Scada			Total 13806.00	
	B)Deduct Royalty charges of sand	0.425	237.37	100.88	
	C) Sub Total		C=A-B	13705.12	
	D) Add Lead Charges			0.00	
	i) Metal	0.85	0.00	0.00	
	ii) Sand	0.43	0.00	0.00	
	iii) Cement	7.00	0.00	0.00	
	Total			13705.12	Cum
11	Providing & fixing in position T.M.T.bar reinforcement of various diameters for reinforced cement concrete pile caps, footing, foundation, slabs, beams, columns, canopies, stair case, newels, chajjas, lintels, pardis, copings, fins, arches -etc. complete .(Item No.26.33, BDF 17A Page.No.245)			89703.00	
	A)Ground Floor-Rate as per SSR 2022-2023			0.00	
	B) Add Lead Charges				

Sr. No.	Item Description	Per unit Quantiy	Lead charges Rs.per unit	Total Amount in Rs.	Units
16	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (Without mechanical gear)(Item No.39.24 BDT Page.No.318)			67.00	
	A)Ground Floor-Rate as per SSR 2022-2023	0.015	237.37	3.56	
	B)Deduct Royalty charges of sand		C=A-B	63.44	
	C) Sub Total			0.00	
	D) Add Lead Charges	0.02	235.38	3.53	
	i) Sand	0.11	0.00	0.00	
	ii) Cement			66.97	Sqm
	Total				
17	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete (Item No.40.01 BDU 1 Page.No.338)			2097.00	
	A)Ground Floor-Rate as per SSR 2022-2023			2097.00	Sqm
	Total				
18	Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of two tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 kg/Rmt. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 kg/Rmt. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. And handle section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete. With powder coating with box (Item No.39.39 RNT Page No 322)			4794.00	
	A)Ground Floor-Rate as per SSR 2022-2023			4794.00	Sqm
	Total				
19	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. (Item No.35.15 , Page.No.287)			104.00	
	A)Ground Floor-Rate as per SSR 2022-2023			104.00	Sqm
	Total				

Sr. No.	Item Description	Per unit Quantity	Lead charges Rs. per unit	Total Amount in Rs.	Units
20	Providing and applying washable oil bound distemper of approved colour and shade to old and new two coats, including scaffolding if necessary, cleaning and preparing the surface complete. Complete (I.No.36.11,,p.no.291) item code- BDP5A-p.no.413			48.00	
	A)Ground Floor-Rate as per SSR 2022-2023			48.00	Sqm
	Total				
21	Providing and fabricating structural steel work in rolled sections, fixed with connecting plates or angle cleats in main and cross beams, hip and jack rafters, purlins connecting to truss members and the like, as per detailed designs and drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/ bolted/ welded connections and one coat of anticorrosive paint and over it two coats of oil paintig complete. Bd.c.3 page No.275,(I.No.23.01,P.no.223)			101844.00	
	A)Ground Floor-Rate as per SSR 2022-2023			101844.00	Sqm
	Total				
22	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete. (Weight of 6.8 kg/sq.m) (I.No.38.05,P.No.297)			1139.00	
	A)Ground Floor-Rate as per SSR 2022-2023			1139.00	Sqm
	Total				
23	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of low density polythylene and built corrugation including of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow of all tanks capacity above 1000 to 20,000 litres			13.00	
	A)Ground Floor-Rate as per SSR 2022-2023			13.00	lit
	Total				
24	Providing and fixing on walls/ ceiling/ floor 32mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.			584.00	
	A)Ground Floor-Rate as per SSR 2022-2023			584.00	lit
	Total				
25	Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.			262.00	
	A)Ground Floor-Rate as per SSR 2022-2023			262.00	lit
	Total				

K.V.

K.V. AMRUTWAD
 B.E. (Civil)
 CONSULTING ENGINEER
 R.No.TP/NWCMC/ENGG/14

LEAD CHART

Sr. No.	Material	Source	Total lead in km	Initial lead	Net lead	Net charges	
1	Sand	SAGROLI	50	313.21	313.21	0	
2	c.r.metal	UMRI	40	504.36	504.36	0	
3	40 mm above metal	UMRI	40	483.34	483.34	0	
4	Murum	Local	5	220.06	220.06	0	
5	Brick	RAHER	15	671.27	671.27	0.00	
6	Cement	LOCAL	0	0	0	0	0.00
	Steel	LOCAL	0	0	0	0	
8	Flooring (Tiles)	LOCAL	0	0	0	0	
9	Flooring (Tandur, Granite)	LOCAL	0	0	0	0	

certified that the lead of the quarries accounted in the estimate as per the nearest route is considered. Lead of the quarry account in the estimate are authentic leads which is to be government approved.



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CERTIFICATE

This is certified that:-

- 1 100% Arithmetical check has been exercised while framing the estimate.
The rates as adopted in the estimate are as per current. Schedule of Rates (S.S.R. 2022-23)
- 2 The Quarries of the construction materials are mentioned in the lead chart have been inspected by me. The lead of materials as mentioned in the lead chart are minimum and correct. There is no other quarry available with lead less than that mentioned in the lead chart. The materials available from quarry are good in Quality and quantity required for construction work
- 3 The lead charges of the construction materials have already been incorporate in the rates of the respective items.
- 4 The quantity of the item as worked out in estimate are based on the detail working drawing/ designs are as per site conditions. The quality of the executed item will not exceed the quantity as worked out in the estimate
- 5 The various provisions made in the estimate are technically adequate and the entire proposal is considered to be technically sound.
- 6 The layout plan and the working drawing of the proposed construction have been prepared as per bye-laws of local authority



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