

BOOKLET OF ESTIMATE.

**Name Of Work :- Construction Of
Anganwadi Building At _____
Tq.Ashti.Dist Beed**

Under (M.G.N.R.E.G.A 2022-23)

Estimated Cost Rs :- 11.45 Lakh |

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed

Under (M.G.N.R.E.G.A 2022-23)

GENERAL REPORT

General report accompanying the estimate of Construction Of Anganwadi Building At
_____ Tq.Ashti.Dist Beed Under (M.G.N.R.E.G.A 2022-23)

Following items are provided in this Estimate

Excavation for foundation in earth. Soils of all types including removing the excava

Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m.

Providing and laying is situ C.C M-10 1:3:6 prop. For foundation and bedding including formwork

providing and laying Rough Shahabad stone flooring 25mm. To 30mm. Thick and of required width in plain / diamond pattern on a bed

providing structural steel work in rolled sections like joists, channels, angles, tees etc. as per

Providing and fixing C.G.I iron sheet 0.63 mm thick for roofing page no.61 It No.233

Providing fly ash brick masnory with fly ash brick having charactritic 75 confirming to IS 12894: 1990 in cement mortar 1:6 in superstructure

Providing internal cement plaster of 12mm thick in single coat in cement mortar 1:3 withou

Providing and fixing jungle wood leaf second class fully panelled door without ventilator as per d

Providing and fixing jungle wood frame 60x100mm for second

Finishing cement based water proof treatment to terrace as directed by Engineer incharge

providing and applying two coats of water proof cement paint of approved colour spec

Providing and applying washeble oil- bound distemper of approved colour spec.no. Bd.p.5 Page no

Providing and applying three coats of synthetic enamel paints of approved colour to new and old strutral steel work

The rates are adopted as per SSR 2021-2022 years Estimated cost commens Rs
11,45,000/-

An early Techincal sanction to the estimate is requested please.

Deputy Engineer
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed
Under (M.G.N.R.E.G.A 2022-23)

GENERAL ABSTRACT

SR NO.	PARTICULARS	TOTAL COST	SKILLED AMT	UNSKILLED AMT
1	COST OF Anganwadi	1,143,854.00	850776.00	293078.00
	GRAND TOTAL (A+B+C)RS.	1143854.00	850776.00	293078.00

	MATERIAL : LABOUR RATIO	100%	74.38	25.62
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% %

TOTAL 1,143,854.00

Say 1145000.00

Deputy Engineer
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed
Under (M.G.N.R.E.G.A 2022-23)

GENERAL ABSTRACT

SR.No.	Particular	Total Cost Of Work	Unskilled Amount	Skilled Amount	Skilled Portion Under (15 th F.C)	Skilled Portion Under MGNAREGA
1	Anganwadi	1143854.00	293078.00	850776.00	96,346.00	754,429.00
		Ratio	25.62 %	74.38 %		

Deputy Engineer
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed

Under (M.G.N.R.E.G.A 2022-23)

Abstract (A)

DESCRIPTION	unit	Qty.	Total Rate	Rate		Total		Amount
				Unskilled	Skilled	Unskilled	Skilled	
Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.153	cum	21.19	207.00	-	-	4386.00	-	4386.00
Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153	sqm	13.02	227.00	-	-	2957.00	-	2957.00
Item No. 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ grit, ramming, watering etc. complete.It.No.21.40 P.No.201	cum	1.15	1925.53	436.00	1489.53	502.00	1716.00	2218.00
Item No. 4 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176	cum	9.67	6400.48	1616.00	4784.48	15622.00	46253.00	61875.00
Item No. 5 Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/ pumping cover blocks, compacting and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.25.11 P.No.180	sqm	5.08	7671.79	2110.00	5561.79	10710.00	28232.00	38942.00
Item No. 6 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compacting 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 natural sand/ V.S.I. quality Artificial Sand it no.25.31 p.no.183	sqm	3.39	14350.79	5252.00	9098.79	17810.00	30855.00	48665.00

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Item No. 7 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface 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 natural sand/ V.S.I. quality Artificial Sand (I.NO.25.50 , P.NO.186)	cum	4.60	12836.79	5085.00	7751.79	23385.00	35650.00	59035.00
Item No. 8 Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and water ing etc. Complete. It.no.27.01 P.no.210	cum	7.82	8509.64	1588.00	6921.64	12424.00	54152.00	66576.00
Item No. 9 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including water ing and compact ion etc. complete. It.No.21.37 P.No.157	sqm	38.60	1006.68	135.00	871.68	5211.00	33647.00	38858.00
Item No. 10 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 centering, formwork, cover blocks, laying/ pumping, compacting and 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 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 natural sand/ V.S.I. quality Artificial Sand It.no.25.70 p.no.188	sqm	6.31	14510.79	5988.00	8522.79	37769.00	53757.00	91526.00
Item No. 11 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 centering, formwork, cover blocks compacting, curing, finishing 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 natural sand/ V.S.I. quality Artificial Sand It.No.26.05 P.No.193	sqm	0.25	14499.79	5988.00	8511.79	1475.00	2097.00	3572.00
Item No.12 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, arches, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. Itno.26.33 p.no.197	MT	1.47	90051.11	11762.00	78289.11	17308.00	115202.00	132510.00

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Item No. 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. It.No.27.05 P.No.210	cum	17.84	8748.64	1705.00	7043.64	30414.00	125647.00	156061.00
Item No. 14 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. It.No.39.09 P.No.261	sqm	4.26	3079.00	741.00	2338.00	3155.00	9953.00	13108.00
Item No. 15 Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels 5 mm thick as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete. It.No.39.15 P.No.262	sqm	4.21	4804.00	1496.00	3308.00	6301.00	13933.00	20234.00
Item No. 16 Providing and fixing mild steel grill work for windows, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete. It.No.40.02 P.No.281	sqm	5.76	1707.00	316.00	1391.00	1820.00	8012.00	9832.00
Item No.17 Providing and fixing frame with / without ventilator of size as specified with Country non teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete It.No.39.02 P.No.260	sqm	0.24	107112.00	135.00	106977.00	33.00	26175.00	26208.00
Item No. 18 Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, polishing, rounding edges, cleaning complete. b) Granite It.No.33.22 P.No.268	sqm	4.83	3886.00	336.00	3550.00	1623.00	17147.00	18770.00

Item No. 19 Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window rame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 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 and top section 40 x 18 x 1.25 mm at weight o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge ,complete. With colour Anodising with box It.No.39.41 P.No.269	sqm	5.40	5502.00	1415.00	4087.00	7641.00	22070.00	29711.00
Item No. 20 Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complet It.No.39.68 P.No.276	Sqm	0.20	3467.00	1370.00	2097.00	277.00	425.00	702.00
Item No. 21 Providing internal cement plaster 12mm thick in single coat in cement mor tar 1:5 wi thout neeru finish to concrete or br ick sur faces, in all posi tions including scaffolding and cur ing etc. complete.It.No.32.03 P.No.221	sqm	131.98	281.24	204.00	77.24	26924.00	10195.00	37119.00
Item No. 22 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.It.No.32.07 P.No.224	sqm	107.70	398.15	253.00	145.15	27248.00	15632.00	42880.00
Item No. 23 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. page no.159 It No.33.41	sqm	41.10	1252.00	352.00	900.00	14469.00	36993.00	51462.00
Item No.24 Providing and laying ceramic tiles of having size 30 cm x 30 cm confirming toI.S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete. It.No.33.24 P.No.231	sqm	0.90	1194.33	355.00	839.33	320.00	755.00	1075.00
Item No. 25 Providing and fixing 1st class white glazed earthenware Orissa Type W.C. Pan 580 mm dia including P or S trap cast iron soil and vent pipe upto the outside face of the wall (1:5:1 0) cement concrete bedding 15 mm thick, 10 liter P.V.C. flushing cistern with all necessary pipe connection etc. complete. It.No.42.33 P.No.297	Nos	1.00	7388.00	1786.00	5602.00	1786.00	5602.00	7388.00
Item No. 26 Providing and fixing in position UPVC ultra violet stabilized 110 mm outer diameter cowl dome confirming to I.S.-4985 including making joints with solvent cement etc. complete It.No.43.25 P.No.309	Nos	2.00	169.00	78.00	91.00	156.00	182.00	338.00
Item No. 27 Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete It.No.42.52 P.No.299	Rgm	3.96	788.00	159.00	629.00	630.00	2492.00	3122.00

Item No.28 Providing 25 mm to 30 mm thick partition of polished black kadappa stone slab of approved quality including giving required size and shape etc. Fixing in cement mortar 1:3 curing and cement etc. complete. a) One side polish It.No.33.32 P.No.232	sqm	1.13	988.00	332.00	656.00	374.00	738.00	1112.00
Item No. 29 Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 kg with frame etc complete. It.No.42.12 P.No.294	Nos	1.00	9342.00	1662.00	7680.00	1662.00	7680.00	9342.00
Item No. 30 Providing soak pit of size 120cm x 120cm x 120cm including excavating and filling with brick-bats. It.No.42.19 P.No.295	Nos	1.00	2952.00	1122.00	1830.00	1122.00	1830.00	2952.00
Item No. 31 Providing and fixing 15 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete. It.No.41.40 P.No.288	Nos	2.00	671.00	105.00	566.00	210.00	1132.00	1342.00
Item No. 32 Providing and fixing H.D.P container one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters It.No.42.53 P.No.204	LTR	500.00	14.00	2.00	12.00	1000.00	6000.00	7000.00
Item No. 33 Providing, laying and fixing P.V.C. pipe of 15mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. It.No.42.21 P.No.295	Rgm	4.00	82.00	31.00	51.00	124.00	204.00	328.00
Item No.34 Providing and applying washeble oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 (page no. 244 it no.36.11	sqm	137.50	48.00	18.00	30.00	2475.00	4125.00	6600.00
Item No.35 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete Page no.164 It No.35.14	sqm	118.16	78.00	50.00	28.00	5908.00	3309.00	9217.00
Item No.36 Providing and laying damp proof course 50 mm thick in M20 cement concrete layer and bitumen / using cement with waterproofing compound curing, formwork etc. complete Page no.150 It No.31.01	sqm	50.46	432.00	98.00	334.00	4945.00	16854.00	21799.00
Total Work Portion						290176.00	738646.00	1028822.00
Item No.37 Testing Charges								
A) Compressive Strenght Of CC Cube	Nos	2.00	690.00				1380.00	1380.00
Item No.38 Royalty Charges	cum							
A) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)= 211.95+4.23+21.19 = 237.37 Per Cum		25.83	237.37				6132.00	6132.00
B) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum		39.75	216.18				8594.00	8594.00

Item No.39	GST	12%					88638.00	88638.00
Item No.40	Labour Insurance	1%				2902.00	7386.00	10288.00
			Total			293078.00	850776.00	1143854.00

Part A) Labour Cost For MGNREGA Rs	293,078.00	Unskilled	27.98	28%
Part B) Material Cost For MGNREGA Rs.	754,429.00	Skilled	72.02	72%
	Total			
Part C) Material Cost For 15 Th F.C (G.P)	96,346.00			

Deputy Engineer
Z.P. (Work) Sub div.Ashti

**Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed
Under (M.G.N.R.E.G.A 2022-23)**

Abstract (B)

DESCRIPTION	unit	Qty.	Total Rate	Rate		Total		Amount
				Unskilled	Skilled	Unskilled	Skilled	
Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.153	cum	21.19	207.00	-	-	-	-	-
Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153	sqm	13.02	227.00	-	-	-	-	-
Item No. 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ grit, ramming, watering etc. complete.It.No.21.40 P.No.201	cum	1.15	1925.53	436.00	1489.53	1716.00	1716.00	1716.00
Item No. 4 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176	cum	9.67	6400.48	1616.00	4784.48	46253.00	46253.00	46253.00
Item No. 5 Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/ pumping cover blocks, compacting and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.25.11 P.No.180	sqm	5.08	7671.79	2110.00	5561.79	28232.00	28232.00	28232.00

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Item No. 9 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including water ing and compact ion etc. complete.It.No.21.37 P.No.157	sqm	38.60	1006.68	135.00	871.68		33647.00	33647.00
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Item No.12 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. It no. 26.33 p.no.197	MT	1.47	90051.11	11762.00	78289.11		115202.00	115202.00
Item No. 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. It.No.27.05 P.No.210	cum	17.84	8748.64	1705.00	7043.64		125647.00	125647.00
Item No. 14 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. It.No.39.09 P.No.261	sqm	4.26	3079.00	741.00	2338.00		9953.00	9953.00
Item No. 15 Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels 5 mm thick as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete. It.No.39.15 P.No.262	sqm	4.21	4804.00	1496.00	3308.00		13933.00	13933.00
Item No. 16 Providing and fixing mild steel grill work for windows, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete. It.No.40.02 P.No.281	sqm	5.76	1707.00	316.00	1391.00		8012.00	8012.00
Item No.17 Providing and fixing frame with / without ventilator of size as specified with Country non teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete It.No.39.02 P.No.260	sqm	0.24	107112.00	135.00	106977.00		26175.00	26175.00
Item No. 18 Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, polishing, rounding edges, cleaning complete. b) Granite It.No.33.22 P.No.268	sqm	4.83	3886.00	336.00	3550.00		17147.00	17147.00
Item No. 19 Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 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 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, complete. With colour Anodising with box It.No.39.41 P.No.269	sqm	5.40	5502.00	1415.00	4087.00		22070.00	22070.00

Item No. 20 Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete It.No.39.68 P.No.276	Sqm	0.20	3467.00	1370.00	2097.00		425.00	425.00
Item No. 21 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.It.No.32.03 P.No.221	sqm	131.98	281.24	204.00	77.24		0.00	0.00
Item No. 22 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.It.No.32.07 P.No.224	sqm	107.70	398.15	253.00	145.15		0.00	0.00
Item No. 23 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. page no.159 It No.33.41	sqm	41.10	1252.00	352.00	900.00		0.00	0.00
Item No.24 Providing and laying ceramic tiles of having size 30 cm x 30 cm confirming to I.S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete. It.No.33.24 P.No.231	sqm	0.90	1194.33	355.00	839.33		0.00	0.00
Item No. 25 Providing and fixing 1st class white glazed earthenware Orissa Type W.C. Pan 580 mm dia including P or S trap cast iron soil and vent pipe upto the outside face of the wall (1:5:1 0) cement concrete bedding 15 mm thick, 10 liter P.V.C. flushing cistern with all necessary pipe connection etc. complete. It.No.42.33 P.No.297	Nos	1.00	7388.00	1786.00	5602.00		5602.00	5602.00
Item No. 26 Providing and fixing in position UPVC ultra violet stabilized 110 mm outer diameter cowl dome confirming to I.S.-4985 including making joints with solvent cement etc. complete It.No.43.25 P.No.309	Nos	2.00	169.00	78.00	91.00		182.00	182.00
Item No. 27 Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete It.No.42.52 P.No.299	Rgm	3.96	788.00	159.00	629.00		2492.00	2492.00
Item No.28 Providing 25 mm to 30 mm thick partition of polished black kadappa stone slab of approved quality including giving required size and shape etc. Fixing in cement mortar 1:3 curing and cement etc. complete. a) One side polish It.No.33.32 P.No.232	sqm	1.13	988.00	332.00	656.00		738.00	738.00

Item No. 29 Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 kg with frame etc complete. It.No.42.12 P.No.294	Nos	1.00	9342.00	1662.00	7680.00		7680.00	7680.00
Item No. 30 Providing soak pit of size 120cm x 120cm x 120cm including excavating and filling with brick-bats. It.No.42.19 P.No.295	Nos	1.00	2952.00	1122.00	1830.00		1830.00	1830.00
Item No. 31 Providing and fixing 15 mm dia. screw down bib/ stop tap of brass including necessary socket union nut complete. It.No.41.40 P.No.288	Nos	2.00	671.00	105.00	566.00		1132.00	1132.00
Item No. 32 Providing and fixing H.D.P container one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters It.No.42.53 P.No.204	LTR	500.00	14.00	2.00	12.00		6000.00	6000.00
Item No. 33 Providing, laying and fixing P.V.C. pipe of 15mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. It.No.42.21 P.No.295	Rgm	4.00	82.00	31.00	51.00		204.00	204.00
Item No.34 Providing and applying washable oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 (page no. 244 it no.36.11	sqm	137.50	48.00	18.00	30.00		0.00	0.00
Item No.35 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete Page no.164 It No.35.14	sqm	118.16	78.00	50.00	28.00		0.00	0.00
Item No.36 Providing and laying damp proof course 50 mm thick in M20 cement concrete layer and bitumen / using cement with waterproofing compound curing, formwork etc. complete Page no.150 It No.31.01	sqm	50.46	432.00	98.00	334.00		16854.00	16854.00
Total Work Portion							667637.00	667637.00
Item No.37 Testing Charges								
A) Compressive Strenght Of CC Cube	Nos	2.00	690.00				0.00	0.00
Item No.38 Royalty Charges	cum							

A) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)= 211.95+4.23+21.19 = 237.37 Per Cum		25.83	237.37				0.00	0.00
B) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum		39.75	216.18				0.00	0.00
Item No.39 GST	12%						80116.00	80116.00
Item No.40 Labour Insurance	1%						6676.00	6676.00
			Total				754429.00	754429.00

Deputy Engineer
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed

Under (M.G.N.R.E.G.A 2022-23)

Abstract (C)

DESCRIPTION	unit	Qty.	Total Rate	Rate		Total		Amount
				Unskilled	Skilled	Unskilled	Skilled	
Item No. 21 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.It.No.32.03 P.No.221	sqm	131.98	281.24	204.00	77.24		10195.00	10195.00
Item No. 22 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.It.No.32.07 P.No.224	sqm	107.70	398.15	253.00	145.15		15632.00	15632.00
Item No. 23 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. page no.159 It No.33.41	sqm	41.10	1252.00	352.00	900.00		36993.00	36993.00
Item No.24 Providing and laying ceramic tiles of having size 30 cm x 30 cm confirming to I.S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete. It.No.33.24 P.No.231	sqm	0.90	1194.33	355.00	839.33		755.00	755.00
Item No.34 Providing and applying washable oil- bound distemper of approved colour spec.no. Bd.p.5 Page no. 413 (page no. 244 it no.36.11	sqm	137.50	48.00	18.00	30.00		4125.00	4125.00

Item No.35 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete Page no.164 It No.35.14	sqm	118.16	78.00	50.00	28.00		3309.00	3309.00
Total Work Portion							71009.00	71009.00
Item No.37 Testing Charges								
A) Compressive Strenght Of CC Cube	Nos	2.00	690.00				1380.00	1380.00
Item No.38 Royalty Charges								
A) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)= 211.95+4.23+21.19 = 237.37 Per Cum	cum	25.83	237.37				6132.00	6132.00
B) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum	cum	39.75	216.18				8594.00	8594.00
Item No.39 GST	12%						8521.00	8521.00
Item No.40 Labour Insurance	1%						710.00	710.00
			Total				96346.00	96346.00

Deputy Engineer
Z.P. (Work) Sub div.Ashti

MEASUREMENT

Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.153

For column footing	8	X	1.50	X	1.50	X	0.90	=	16.20
Step	1	X	1.20	X	1.50	X	0.30	=	0.54
L/W Otta	1	X	6.67	X	0.90	X	0.60	=	3.60
C/W	2	X	0.79	X	0.90	X	0.60	=	0.85
									<u>21.19</u> Cum

Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153

For column footing	8	X	1.50	X	1.50	X	0.60	=	10.80
L/W Otta	1	X	6.67	X	0.90	X	0.30	=	1.80
C/W	2	X	0.79	X	0.90	X	0.30	=	0.42
									<u>13.02</u> cum

Item No. 3 Providing soling using 80 mm size t rap metal in 15 cm. layer including filling voids with Crushed sand/ gr i t , ramming, water ing etc. complete.It.No.21.40 P.No.201

Plinth Protection	2	X	3.20	X	1.20	X	0.150	=	1.15
									<u>1.15</u> Cum

Item No. 4 Providing and laying Cast in si tu/ Ready Mix cement concrete in M-10 of t rap/ grani te/ quar tzi te/ gneiss metal for fundat ion and bedding including bai ling out water , formwork, laying/ pumping, compact ing, roughening them i f special finish is to be provided, finishing i f required and cur ing complete, wi th fully automat ic micro processor based PLCwi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. Wi th natural sand/ V.S.I. quali ty Ar t i ficial Sand It.No.24.01 P.No.176

For column footing	8	X	1.50	X	1.50	X	0.125	=	2.25
Below Flooring	1	X	5.54	X	5.47	X	0.100	=	3.03
	1	X	5.54	X	2.25	X	0.100	=	1.25
Step	1	X	1.20	X	1.50	X	0.100	=	0.18
L/W Otta	1	X	6.67	X	0.90	X	0.15	=	0.90
C/W	2	X	0.79	X	0.90	X	0.15	=	0.21
Above Otta	1	X	6.00	X	1.80	X	0.10	=	1.08
Plinth Protection	2	X	3.20	X	1.20	X	0.100	=	0.77
									<u>9.67</u> Cum

Item No. 5 Providing and laying in si tu/ Ready Mix cement concrete M-20 of t rap/ grani te / quar tzi te/ gneiss metal for R.C.C. work in foundat ions like raft , st r ip foundat ions, gr i llage and foot ings of R.C.C. columns and steel stanchions etc. including bai ling out water ,formwork, laying/ pumping cover blocks, compact ion and cur ing roughening the sur face i f special finish is to be provided (Excluding reinforcement and st ructural steel) etc. complete, wi th fully automat ic micro processor based PLCwi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. Wi th natural sand/ V.S.I. quali ty Ar t i ficial Sand It.No.25.11 P.No.180

Foundation

Step1	8	x	1.20	x	1.20	x	0.30	=	3.46
Step2	8	x	0.90	x	0.90	x	0.25	=	1.62
									<u>5.08</u> Cum

Item No. 6 Providing and laying Cast in si tu/ Ready Mix cement concrete M-20 of t rap / grani te / quar tzi te/ gneiss metal for R.C.C. columns as per detai led designs and drawing or as directed including center ing, formwork, cover blocks, laying/ pumping, compact ion finishing the formed sur faces wi th cement mor tar 1:3 of sufficient minimum thickness to give a smooth and even sur face or roughening i f special finish is to be provided and cur ing etc. complete,(Excluding reinforcement and st ructural steel).wi th fully automat ic micro processor based PLC wi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. Wi thnatural sand/ V.S.I. quali ty Ar t i ficial Sand it no.25.31 p.no.183

Item No. 11 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 centering, formwork, cover blocks compacting, curing, finishing 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 natural sand/V.S.I. quality Artificial Sand It.No.26.05 P.No.193

W	5	x	1.20	X	0.45	X	0.075	=	0.20	Cum
D	1	X	1.30	X	0.45	X	0.075	=	0.04	Cum
									0.25	Cum

Item No.12 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.Itno.26.33 p.no.197

Footing	--				5.08	X	75.00	=	380.70	Kg.	
Columns	--				3.39	X	75.00	=	254.33	Kg.	
Beam	--				4.60	X	75.00	=	344.92	Kg.	
R.C.C. Slab	--				6.31	X	75.00	=	473.06	Kg.	
Chajja	--				0.25	X	75.00	=	18.48	Kg.	
									1471.49	Kg.	
									Say	1.47	MT
									1.47	MT	

Item No. 13 Providing second class Burnt Br ick masonry wi th convent ional/ I.S. type br icks in cement mor tar 1:6 in superstructure including str icking joints, raking out joints, water ing and scaffolding etc. Complete.It.No27.05 P.no.210

L/W	3	X	5.24	X	0.23	X	2.74	=	9.91	
C/W	4	X	2.55	X	0.23	X	2.82	=	6.60	
	2	X	2.25	X	0.23	X	2.82	=	2.92	
Store Room Wall	1	x	2.25	x	0.23	x	2.40	=	1.24	
WC	1	X	1.00	X	0.10	X	2.40	=	0.24	
	1	x	0.90	x	0.10	x	2.40	=	0.22	
									21.13	Cum
Deduct										
D	1	X	1.00	X	0.23	X	2.00	=	0.46	
D1	1	X	0.90	X	0.23	X	2.00	=	0.41	
D2	1	X	0.75	X	0.10	X	1.80	=	0.14	
W1	5	X	0.90	X	0.23	X	1.20	=	1.24	
V	1	X	0.60	X	0.23	X	0.60	=	0.08	
Opening	1	X	0.90	X	0.10	X	2.40	=	0.22	
Lintel	3.00	x	5.10	x	0.23	x	0.10	=	0.35	
C/W	4.00	x	2.51	x	0.23	x	0.10	=	0.23	
	3.00	x	2.25	x	0.23	x	0.10	=	0.16	
									3.29	
Net Qty	21.13	-	3.29					=	17.84	Cum

Item No. 14 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. It.No.39.09 P.No.261

Door Shutter										
D	1	X	0.88	X	1.88			=	1.65	
D1	1	X	0.78	X	1.98			=	1.54	
D2	1	X	0.63	X	1.68			=	1.06	
									4.26	Sqm

Item No. 15 Providing and fixing fully glazed double leaf window shutter with openable fanlight including Country cut teak wood 25 mm thick style and rails with plain / obscured glass panels 5 mm thick as per drawing or as directed by the Engineer in charge with stainless steel fixtures and fastening and finishing the wood work with oil painting three coats etc. complete..It.No.39.15 P.No.262

Window Shutter										
W	5	X	0.78	X	1.08			=	4.21	
									4.21	Sqm

Item No. 16 Providing and fixing **mild steel grill work for windows**, ventilators, etc. 15 kg/sqm as per drawing including fixtures necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete. **It.No.40.02 P.No.281**

W	5	X	0.9	X	1.2					=	5.40	
V	1	x	0.6	x	0.60					=	0.36	
Total											=	5.76 Cum

Item No.17 Providing and fixing **frame with / without ventilator of size as specified with Country non teak wood for doors** and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete **It.No.39.02 P.No.260**

D												
	Hp	1	x	2	X	1.3	X	0.10	x	0.06	=	0.0156
	Vp	1	x	2	x	1.88	x	0.10	x	0.06	=	0.02256
D1												
	Hp	1	x	2	X	1.2	X	0.10	x	0.06	=	0.0144
	Vp	1	x	2	x	1.88	x	0.10	x	0.06	=	0.02256
D2												
	Hp	1	x	2	X	1.05	X	0.10	x	0.06	=	0.0126
	Vp	1	x	2	x	1.68	x	0.10	x	0.06	=	0.02016
W												
	Hp	5	x	2	X	1.2	X	0.10	x	0.06	=	0.072
	Vp	5	x	2	x	1.08	x	0.10	x	0.06	=	0.0648
Total											=	0.24 Sam

Item No. 18 Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, polishing, rounding edges, cleaning complete. b) Granite **It.No.33.22 P.No.268**

Window Granit

	2	x	5	x	1.20	x	0.23			=	2.76	
	2	x	5	x	0.90	x	0.23			=	2.07	
Total											=	4.83 Sqm

Item No. 19 Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window rame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 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 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 ,complete. With colour Anodising with box **It.No.39.41 P.No.269**

W	5	X	1.2	X	0.9					=	5.4	
Total											=	5.4 Sqm

Item No. 20 Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complet **It.No.39.68 P.No.276**

V	1	x	0.45	x	0.45					=	0.20	
Total											=	0.20 Sqm

Item No. 21 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. **It.No.32.03 P.No.221**

Inside

Store	2	x	2.06+2.25	x	3.3					=	28.45
Kitchen	2	x	2.38+2.25	x	3.3					=	30.56
WC	2	x	0.90+1.00	x	2.4					=	9.12

Item No.35 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete Page no.164 It No.35.14

Out Side

L/W	1	x	2	x	6.00	x	4.10	=	49.20
C/W	1	x	2	x	8.41	x	4.10	=	68.96
									118.16 sqm

Item No.36 Providing and laying damp proof course 50 mm thick in M20 cement concrete layer and bitumen / using cement with waterproofing compound curing, formwork etc. complete Page no.150 It No.31.01

Damp Proof

	1	x	1	x	6.00	x	8.41	=	50.46 Sqm
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Item No.37 Testing Charges

A) Compressive Strenght Of CC Cube								=	2.00 Nos
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Item No.38 Royalty Charges

For Above 40 mm metal								=	1.15
Sand								=	25.83419
Murum								=	38.60
									65.59 cum

Item No.39 GST								=	12%
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Item No.40 Labour Insurance								=	1%
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Deputy Engineer
Z.P. (Work) Sub div.Ashti

**Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist
Beed**

Under (M.G.N.R.E.G.A 2022-23)

RATE ANALYSIS

Item No.1

Providing and laying Cast in situ/ Ready Mix **cement concrete in M-10** of trap/ granite/ quartzite/ gneiss metal **for foundation and bedding** including baling out water, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand

It.No.24.01 P.No.226

As per DSR Rate 2021-2022

5830.00

Deduct for Non SCADA

= 120.00

Add lead charges for cement

0.22 x 348.11 = 76.58

Add lead charges for sand

0.47 x 410.55 = 192.96

Add Diff.Cost Of Sand

0.47 x 110.00 = 51.70

Add lead charges for 40mm metal

0.70 x 393.44 = 275.41

Deduct Diff.Cost For 40 mm Metal

0.70 x 5.00 = 3.50

Add lead charges for 20mm metal

0.24 x 410.55 = 98.53

Deduct Diff.Cost For 20 mm Metal

0.24 x 5.00 = 1.20

6400.48

6400.48 Cum

Item No.2

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.**It.No27.05 P.no.254**

As per DSR Rate 2021-2022

7994.00 cum

Add lead charges for cement

0.079 x 348.11 = 27.50

Add lead charges for sand

0.32 x 410.55 = 131.38

Add Diff.Cost Of Sand

0.32 x 110.00 = 35.20

Add lead charges for Brick For 1 Cum

1.00 x 560.56 = 560.56

8748.64 cum

Item No.3

Providing and laying Cast in situ/ Ready Mix cement concrete **M-15** of trap/ granite/ quartzite/ gneiss metal **for coping to plinth or parapet**, moulded or chamfered as per drawing or as directed including steel centering, plywood/ steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) **p.no.229 It No.24.16**

As per DSR Rate 2021-2022					6359.00	Cum
Add lead charges for Cement	0.30	x	348.11	=	104.43	
Add lead charges for sand	0.44	x	410.55	=	180.64	
Add Diff.Cost Of Sand	0.44	x	110.00	=	48.40	
Add lead charges for 40mm metal	0.56	x	393.44	=	220.33	
Deduct Diff.Cost For 40 mm Metal	0.56	x	5.00	=	2.80	
Add lead charges for 20mm metal	0.22	x	410.55	=	90.32	
Deduct Diff.Cost For 20 mm Metal	0.22	x	5.00	=	1.10	
Add lead charges for 10/12mm metal	0.11	x	410.55	=	45.16	
Deduct Diff.Cost For 10/12 mm Metal	0.11	x	5.00	=	0.55	
					7043.83	

Item No.4

Providing and laying in situ/ Ready Mix **cement concrete M-20** of trap/ granite/ quartzite/ gneiss metal **for R.C.C. work in foundations like raft**, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/ pumping cover blocks, compacting and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand **It.No.25.11 P.No.230**

As per DSR Rate 2021-2022					7104.00	
Deduct for Non SCADA				=	120.00	
Add lead charges for cement	0.35	x	348.11	=	121.84	
Add lead charges for sand	0.425	x	410.55	=	174.48	
Add Diff.Cost Of Sand	0.43	x	110.00	=	46.75	
Add lead charges for 20mm metal	0.57	x	410.55	=	234.01	
Deduct Diff.Cost For 20 mm Metal	0.57	x	5.00	=	2.85	
Add lead charges for 10/12mm metal	0.28	x	410.55	=	114.95	
Deduct Diff.Cost For 10/12 mm Metal	0.28	x	5.00	=	1.40	
					7671.79	Cum

Item No.5

Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of trap / granite / quartzite/ gneiss metal **for R.C.C. columns** as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compacting 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 natural sand/ V.S.I. quality Artificial Sand **it no.25.31 p.no.232**

As per DSR Rate 2021-2022					13783.00
Deduct for Non SCADA				=	120.00
Add lead charges for cement	0.35	x	348.11	=	121.84
Add lead charges for sand	0.425	x	410.55	=	174.48
Add Diff.Cost Of Sand	0.43	x	110.00	=	46.75
Add lead charges for 20mm metal	0.57	x	410.55	=	234.01
Deduct Diff.Cost For 20 mm Metal	0.57	x	5.00	=	2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	=	114.95
Deduct Diff.Cost For 10/12 mm Metal	0.28	x	5.00	=	1.40
					14350.79 Cum

Item No.6

Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of trap / granite / quartzite/ gneiss metal **for R.C.C. beams and lintels** as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface 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 natural sand/ V.S.I. quality Artificial Sand (**I.NO.25.50 , P.NO.234**)

As per DSR Rate 2021-2022					12269.00
Deduct for Non SCADA				=	120.00
Add lead charges for cement	0.35	x	348.11	=	121.84
Add lead charges for sand	0.425	x	410.55	=	174.48
Add Diff.Cost Of Sand	0.43	x	110.00	=	46.75
Add lead charges for 20mm metal	0.57	x	410.55	=	234.01
Deduct Diff.Cost For 20 mm Metal	0.57	x	5.00	=	2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	=	114.95
Deduct Diff.Cost For 10/12 mm Metal	0.28	x	5.00	=	1.40
					12836.79 Cum

Item No.7

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 centering, formwork, cover blocks, laying/ pumping, compacting and 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 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 natural sand/ V.S.I. quality Artificial Sand **It.No.25.70 p.no.236**

As per DSR Rate 2021-2022				13943.00
Deduct for Non SCADA			=	120.00
Add lead charges for cement	0.35	x	348.11	= 121.84
Add lead charges for sand	0.425	x	410.55	= 174.48
Add Diff.Cost Of Sand	0.43	x	110.00	= 46.75
Add lead charges for 20mm metal	0.57	x	410.55	= 234.01
Deduct Diff.Cost For 20 mm Metal	0.57	x	5.00	= 2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	= 114.95
Deduct Diff.Cost For 10/12 mm Metal	0.28	x	5.00	= 1.40
				14510.79 Cum

Item No.8

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 centering, formwork, cover blocks compacting , curing , finishing 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 natural sand/V.S.I. quality Artificial Sand **It.No.26.05 P.No.193**

As per DSR Rate 2021-2022				13932.00
Deduct for Non SCADA			=	120.00
Add lead charges for cement	0.35	x	348.11	= 121.84
Add lead charges for sand	0.425	x	410.55	= 174.48
Add Diff.Cost Of Sand	0.43	x	110.00	= 46.75
Add lead charges for 20mm metal	0.57	x	410.55	= 234.01
Deduct Diff.Cost For 20 mm Metal	0.57	x	5.00	= 2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	= 114.95
Deduct Diff.Cost For 10/12 mm Metal	0.28	x	5.00	= 1.40
				14499.79 Cum

Item No.9

Providing **second class Burnt Brick masonry** with conventional/ I.S.type bricks cement mortar **1:6 in foundations and plinth of innerwalls/ in plinth external walls** including baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. **It.no.27.01 P.no.254**

As per DSR Rate 2021-2022				7755.00
Add lead charges for cement	0.079	x	348.11	= 27.50
Add lead charges for sand	0.32	x	410.55	= 131.38
Add Diff.Cost Of Sand	0.32	x	110.00	= 35.20
Add lead charges for Brick for 1 cum	1.00	x	560.56	= 560.56
				8509.64 Cum

Item No.10

Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. **It.no.26.33 p.no.245**

As per DSR Rate 2021-2022				89703.00
Add lead charges for steel	1.00	x	348.11	= 348.11
				90051.11 Cum

Item No.11

Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including watering and compaction etc. complete. **It.No.21.37 P.No.201**

As per DSR Rate 2021-2022				795.00
Add lead charges for murum	1.00	x	211.68	= 211.68
				1006.68 Cum

Item No.12

Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and complete. **It.No.32.03 .No.221**

As per DSR Rate 2021-2022				271.00
Add lead charges for cement	0.007	x	348.11	= 2.44
Add lead charges for sand	0.015	x	410.55	= 6.16
Add Diff.Cost Of Sand	0.02	x	110.00	= 1.65
				281.24 Cum

Item No.13

Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete. It.No.32.07 P.No.224

As per DSR Rate 2021-2022

					382.00
Add lead charges for cement	0.009	x	348.11	=	3.13
Add lead charges for sand	0.025	x	410.55	=	10.26
Add Diff.Cost Of Sand	0.03	x	110.00	=	2.75
					398.15 Cum

Item No.14

Providing and laying **ceramic tiles of having size 30 cm x 30 cm** confirming to I.S.15622/2006 (group D II-A) and 7 to 8 mm thick **for flooring** in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete. **It.No.33.24 P.No.231**

As per DSR Rate 2021-2022

					1182.00
Add lead charges for cement	0.01	x	348.11	=	3.48
Add lead charges for sand	0.017	x	410.55	=	6.98
Add Diff Cost Of sand	0.017	x	110.00	=	1.87
					1194.33 sqm

Item No.15

Providing **soling using 80 mm size** trap metal in **15 cm.** layer including filling voids with Crushed sand/ grit, ramming, watering etc. complete. It.No.21.40 P.No.201

Rates As Per SSR 2021-22

					1454.00
Add lead for Metal	1.00	x	393.44	=	393.44
Add lead for Sand	0.15	x	410.55	=	61.58
Add Diff Cost of sand	0.15	x	110	=	16.50
					1925.53 Cum.

Deputy Engineer
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed

Under (M.G.N.R.E.G.A 2022-23)

Lead Chart

Sr.No	Material	Quarry	Lead in Kms	Lead Charges	Pay Load Factor	Net Lead Charges
1	40mm & 60 mm Metal	-----	15	2360.66	6.00	393.44
2	Metal Below 40mm	-----	15	2360.66	5.75	410.55
3	Sand	-----	15	2360.66	5.75	410.55
4	Cement	-----	20	3481.08	10.00	348.11
4	Brick	-----	20	3481.08	3.105	1121.12
5	Steel	-----	20	3481.08	10.00	348.11
6	Murum	-----	2.5	1270.05	6.00	211.68

CERTIFICATE

- 1 Certified that no construction material is available at lesser distance than above shown leads.
- 2 Certified that good quality and sufficient quantity material available in shown quarry.
- 3 Certified that the distances shown above are verified by me and found correct.

प्रमाणपत्र

प्रमाणित करण्यात येते कि, अंदाजपत्रकात प्रस्तावित करण्यात आलेले काम इतर कोणत्याही योजनेतून झालेले नाही किंवा प्रस्तावित करण्यात आलेले नाही.

करिता प्रमाणपत्र देण्यात येत आहे.

Deputy Engineer
Z.P. (Work) Sub div.Ashti

Name Of Work :- Construction Of Anganwadi Building At _____ Tq.Ashti.Dist Beed

Under (M.G.N.R.E.G.A 2022-23)

Material Requirement As per THEROTICAL CONSUMPTION

Sr.no.	DESCRIPTION	As per Estimate			Cement		Metal				Sand		Steel		Murum		Brick		Unit
		Qty	Rate	Amount	Rate of Consumption	Total cement in bag	Rate of consumption in below 40mm stone	Total below 40mm stone	Rate of consumption in 40 mm & above stone	Total 40mm & above stone	Rate of consumption	Sand in cum	H.Y.S.D	Mild	Rate of consumption	Murum in cum	Rate of consumption	Total Brick in No.	
1	2	3	4	5	6	7	8	9	10	11	12	13							14
1	Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of t rap/ grani te/ quar tzi te/ gneiss metal for foundat ion and bedding including bai ling out water , formwork, laying/ pumping, compact ing, roughening them i f special finish is to be provided, finishing i f required and cur ing complete, wi th fully automat ic micro processor based PLCwi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. Wi th natural sand/ V.S.I. quali ty Ar t i ficial Sand It.No.24.01 P.No.176	9.67			4.40	42.536	0.24	2.32	0.70	6.77	0.47	4.5436							
2	Providing and laying in si tu/ Ready Mix cement concrete M-20 of t rap/ grani te / quar tzi te/ gneiss metal for R.C.C. work in foundat ions like raft , str ip foundat ions, gr il lage and foot ings of R.C.C. columns and steel stanchions etc. including bai ling out water ,formwork, laying/ pumping cover blocks, compact ion and cur ing roughening the sur face i f special finish is to be provided (Excluding reinforcement and st ructural steel) etc. complete, wi th fully automat ic micro processor based PLCwi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. Wi th natural sand/ V.S.I. quali ty Ar t i ficial Sand It.No.25.11 P.No.180	5.08	-		7.00	35.532	0.85	4.31			0.425	2.1573							
3	Providing and laying Cast in si tu/ Ready Mix cement concrete M-20 of t rap / grani te / quar tzi te/ gneiss metal for R.C.C. columns as per detai led designs and drawing or as directed including center ing, formwork, cover blocks, laying/ pumping, compact ion finishing the formed sur faces wi th cement mor tar 1:3 of sufficient minimum thickness to give a smooth and even sur face or roughening i f special finish is to be provided and cur ing etc. complete,(Excluding reinforcement and st ructural steel),wi th fully automat ic micro processor based PLC wi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. Wi thnatural sand/ V.S.I. quali ty Ar t i ficial Sand it no.25.31 p.no.183	3.39			7.00	23.738	0.85	2.88			0.425	1.4412							

4	Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of rap / grani te / quar tzi te/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compact ion and roughening the surface 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 natural sand/ V.S.I. quality Artificial Sand (I.NO.25.50 , P.NO.186)	4.60			7.00	32.192	0.85	3.91			0.425	1.9545						
5	Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of rap / grani te / quar tzi te/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including centering, formwork, cover blocks, laying/ pumping, compact ion 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 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 natural sand/ V.S.I. quality Artificial itno.25.70 p.no.188	6.31			7.00	44.153	0.85	5.36			0.425	2.6807						
6	Item No.12 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, parapets, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. Itno.26.33 p.no.197	1.47										1.47						
8	Item No. 8 Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. Itno.27.01 P.no.210	7.82			1.58	12.361					0.32	2.5036			475	3716.2		
10	Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including watering and compact ion etc. complete. It.No.21.37 P.No.157	38.60												1	38.6			
11	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. It.No.32.03 P.No.221	131.98			0.14	18.477					0.015	1.9797						

12	Item No. 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.It.No.27.05 P.no.210	17.84			1.58	28.185					0.32	5.7083						
13	Item No. 22 Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.It.No.32.07 P.No.224	107.70			0.18	19.386					0.025	2.6925						
	Item No. 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ grit, ramming, watering etc. complete.It.No.21.40 P.No.201	1.15						1.00	1.15	0.15	0.1728							
						256.56		18.79		1.15		25.834	1.47	0.00		38.6		3716.2
						12.828												

Deputy Engineer
Z.P. (Work) Sub div.Ashti