

**AGRICULTURE AND FORESTRY UNIVERSITY**  
**FACULTY OF FORESTRY**  
**Hetauda**

Date:-2075/08/02

**Job Title:- Girls Hostel Canteen and maintenance**

S.N.	Description of Work	Unit	Quantity	Rate	Amount	Remarks
<b>1</b>	<b>Garage mesh Wire cover</b>					
a	Mesh wire (2.7 mm and heavy Zinc coated) installation in the garage with ms pipe frame and angle including all the necessary fitting and equipment as per the instructions of site engineer.					
	<b>Mesh wire</b>	Sqm	51.4			
b	Mild steel pipe frame(runner and angle of 3mm thick) including necessary cleat angles, gussets, base plates and applying two coats of enamel painting over primer on cleaned surface of steel, all complete.					
	<b>Mild steel Frame</b>	Kg	363			
	<b>sub-total</b>					
<b>2</b>	<b>Existing Hostel roof meintanance</b>					
a	Demolition of Existing roof including the stacking of debries and the material up to the haul of 100m					
	<b>Demolition</b>	Sqm	50.2			
b	Mild Steel PipeTruss( Tie rafter, purlins )of approved steel sections (3.5mm) including necessary cleat angles, gussets, base plates, anchoring, hooks, Prefinished Eaves Board and applying two coats of enamel painting over primer on cleaned surface of steel , all complete.					
	<b>Mild Steel Truss</b>	Kg	406.45			

c	Providing, laying and fixing 24 gauge (0.50 mm thick) galvanized corrugated colour coated sheets with Hilti self tapping screws, including necessary overlaps, washers etc. and providing and fixing 100 mm wide tape, with glue at both sides, at the joints of CGI sheets to prevent leakage due to capillary action, all complete as per specification, drawing and instruction of Site Engineer.					
	<b>fixing New Colour CGI sheet</b>	Sqm	74.88			
d	GI Gutter: Providing and fixing in position 200 mm x 150 mm overall trapizoidal type Pre-finished colour G.I. Sheet gutter(0.5mm th) with G.I. brackets 40 x 3 mm size including bolts, nuts, washer, making, connections with rainwater pipes, etc., all complete as per drawings, specification and instruction of Engineer.					
	<b>GI Gutter</b>	Rm	19.5			
f	Providing and fixing in position 12 mm thick waterproof plywood false at all heights and level by providing 50mm x 50mm size hard wood under framing suspended from roof truss member with required hanging adjustable 12 mm dia. Rod with U-clamp or 25 x 3 mm mild steel straps, including required cleats, nuts, bolts, nails, scaffolding, painting with 2 coats of clear varnish, etc. all complete as per drawing, specification and instruction of the Engineer.					
	<b>False Ceiling</b>	sqm	46.75			
	<b>sub-total</b>					
<b>3</b>	<b>Canteen</b>					
a	Site clearance: demolition of existing massonary structures and well stacking the materials and debris as accordingly upto a haulage of 100 meter, other necessary clearance of the site as per the requirement of the site engineer.					
	<b>CGI roof</b>	Sqm	44.65			
	<b>Brick wall</b>	cum	23			

b	Earth Excavation in foundation in all type of soils for foundation, trenches etc to the required depth as per design, drawing and instruction.					
	<b>Earth Excavation</b>	cum	32.832			
c	Back filling in foundation, floorwith approved type of excavated soil and barrowed soil with full compaction including watering, ramming by rammer all complete work.					
	<b>Back Filling</b>	cum	38.688			
d	providing and laying mixed gravel below flat soling in foundation and floor in required line and level all complete as per drawing, specification and instructions of the Engineer.					
	<b>Mixed Gravel</b>	cum	4.104			
	<b>stone soling 6"</b>	cum	6.552			
e	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6(1 cement : 3 sand : 6 coarse aggregate ) using OPC 43 grade cement for flooring work with line and leveling including , mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.					
	<b>PCC 1:3:6</b>	cum	10.6			
f	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:1.5:3(1 cement : 1.5 sand : 3coarse aggregate)using OPC 43 grade cement for Flooring work with line and leveling including rein.steel 4.5kg/m, formwork, wherever necessary, mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.					
	<b>RCC for DPC band</b>	cum	2.95			
	<b>RCC for Kitchen slab</b>	cum	1.31			
	<b>Reinforcement bar</b>	kg	321.05			

g	Providing and laying machine made concrete block (150X200X400) wall in cement mortar 1:4(1 cement :4 coarse sand) in specified places in all heights and level including the cost of single or multi stage scaffolding, soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.					
	<b>Concrete block work 1:4 c/s</b>	cum	31.966075			
h	Supplying, making, fitting Sal wood frames for doors and windows with good finish of approved seasoned salwood including fixing with MS holdfasts (3 nos. at each side), bitumen or black japan paint to the surface contacting to concrete or masonry, including two or more coats enamel etc., all complete as per design, drawing, specifications instructions of the engineer.					
	<b>Sal wood Frame</b>	Cum	0.141			
i	Supplying and Fitting Solidcore flush door shutter (35 mm thick) with ISI marked 100mm steel hinge, 150mm 2 nos tower bolt, L-Drop or Mortice lock 6 lever of Godrej company or equivalent made, Door stopper, etc all complete as per specification and instruction.					
	<b>Solidcore Flush Door shutter</b>	Sqm	3.35			
j	Providing, fabricating and fixing in position Approved size and section (78x38x1.2)mm aluminium sliding window including 4mm thick Plain Glass, mesh screen with necessary fittings all complete work.					
	<b>Aluminium windows</b>	Sqm	7.44			
	<b>Window Grill</b>	Kg	244			

k	Providing and applying at all levels and shape 12mm thick cement plaster in building interior area in specified cement mortar 1:6 (1 cement : 6 fine sand ) in all surface at all height including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface including all necessary scaffolding, prov dripping, wetting, curing, protection, etc., all complete as per drawing , specification and instruction of the Engineer.					
	<b>12mm thick cement plaster</b>	Sqm	165.2			
l	Providing and laying in required line, level and pattern 35 thick cement concrete flooring comprising an under layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12mm and down grade) in glass strip of 4mm thick 35m deep and finished top layer with a floating coat of neat cement slurry, with coving at corners etc. all complete as per drawings, specifications and instructions. The depth and pattern of the cement floor finish shall be maintained keeping on the view of the thickness of upcoming floor finish layer.					
	<b>35mm th.cement concrete Flooring</b>	sqm	44.27			
m	Mild Steel PipeTruss( Tie rafter, purlins )of approved steel sections (3.5mm) including necessary cleat angles, gussets, base plates, anchoring, hooks, Prefinished Eaves Board and applying two coats of enamel painting over primer on cleaned surface of steel , all complete.					
	<b>Mild Steel Truss</b>	Kg	792.2572			

n	Providing, laying and fixing 24 gauge (0.50 mm thick) galvanized corrugated colour coated sheets with Hilti self tapping screws, including necessary overlaps, washers etc. and providing and fixing 100 mm wide tape, with glue at both sides, at the joints of CGI sheets to prevent leakage due to capillary action, all complete as per specification, drawing and instruction of Site Engineer.					
	<b>fixing New Colour CGI sheet</b>	Sqm	78.12			
o	Providing and fixing in position 12 mm thick waterproof plywood false at all heights and level by providing 50mm x 50mm size hard wood under framing suspended from roof truss member with required hanging adjustable 12 mm dia. Rod with U-clamp or 25 x 3 mm mild steel straps, including required cleats, nuts, bolts, nails, scaffolding, painting with 2 coats of clear varnish, etc. all complete as per drawing, specification and instruction of the Engineer.					
	<b>False Ceiling</b>	sqm	44.3			
p	Providing and applying two or more coats of first quality hundred percent acrylic paint (Distemper or approved equivalent manufactured by Asian Paints, Berger Paints, Nepalpaint ) of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping etc., washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.					
	<b>Acrylic Paint</b>	sqm	165.2			

q	Supplying and application of enamel paint of approved quality on False ceiling,windows & Wire Mesh Doors & Windows in two coats over one coat of primer in properly sanded surface all complete as per design, drawings, specifications and instructions of the engineer.					
	<b>Enamel paint</b>	sqm	10.8			
r	Providing and fitting plumbing & sanitary accessories with necessary fittings including all necessary fittings,fixtures all complete work as per specifications and instructions of the Engineer.					
	<b>Floor/wall Tile</b>	sqm	21.48			
	<b>Orrisa Pan</b>	no	1			
	<b>Wash Basin/Kitchen sink</b>	no	2			
	<b>Shower/Tap set</b>	no	2			
	<b>1/2' or 1" dia CPVC pipe</b>	rm	122			
s	Supplying ,wiring,testing,commissioning and putting into operation for Light,Fan powersocket points using standard copper conductor pvc insulated wires drawn through pre installed HDP pipes concealed in wall and floor including all fixing and connecting materials switch & socket all complete works as per design, drawings, specifications and instructions of the Engineer.					
	<b>One way Light Point/Fan Points</b>	no	20			
	<b>15/5 AMP Power Socket</b>	no	5			
	<b>48" Ceiling Fans</b>	no	4			
	<b>sub-total</b>					
4	<b>Auditorium hall toilet</b>					
a	site clearance	Ls	1			
b	Earth Excavation in foundation in all type of soils for foundation, trenches etc to the required depth as per design, drawing and instruction.					
	<b>Earth Excavation</b>	cum	14.28			
c	Back filling in foundation, floor with approved type of excavated soil and barrowed soil with full compaction including watering, ramming by rammer all complete work.					
	<b>Back Filling</b>	cum	17.91			

d	<b>Mixed Gravel</b>	cum	2.38			
e	<b>stone soling 6"</b>	cum	2.3			
f	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6(1 cement : 3 sand : 6 coarse aggregate ) using OPC 43 grade cement for flooring work with line and leveling including , mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.					
	<b>PCC 1:3:6</b>	cum	2.34			
g	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:1.5:3(1 cement : 1.5 sand : 3coarse aggregate)using OPC 43 grade cement for Flooring work with line and leveling including rein.steel 4.5kg/m, formwork, wherever necessary, mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.					
	<b>RCC for DPC band</b>	cum	1.15			
	<b>Reinforcement bar</b>	kg	62.22			
h	Providing and laying concrete block wall (150X200X400) in cement mortar 1:4 (1 cement :4coarse sand) in specified places in all heights and level including the cost of single or multi stage scaffolding, soaking bricks, curing, raking joints,provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.					
	<b>concrete block work 1:4 c/s</b>	cum	18.16			



i	Supplying, making, fitting Sal wood frames for doors and windows with good finish of approved seasoned salwood including fixing with MS holdfasts (3 nos. at each side), bitumen or black japan paint to the surface contacting to concrete or masonry, including two or more coats enamel etc., all complete as per design, drawing, specifications instructions of the engineer.					
	<b>Sal woodFrame</b>	cum	0.141			
j	Providing and laying in required line, level and pattern 35 thick cement concrete flooring comprising an under layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12mm and down grade) in glass strip of 4mm thick 35m deep and finished top layer with a floating coat of neat cement slurry, with coving at corners etc. all complete as per drawings, specifications and instructions. The depth and pattern of the cement floor finish shall be maintained keeping on the view of the thickness of upcoming floor finish layer.					
	<b>35mm th.cement concrete Flooring</b>	sqm	15.1			
k	Supplying,making and Fitting plane sheet screen Door shutter, approved seasoned hard wooden frame (3"x1.5") including hinges,handle,Tower bolts all complete work.					
	<b>Plane sheet shutter</b>	sqm	6.7			

l	Providing, laying and fixing 24 gauge (0.50 mm thick) galvanized corrugated colour coated sheets with Hilty self tapping screws, including necessary overlaps, washers etc. and providing and fixing 100 mm wide tape, with glue at both sides, at the joints of CGI sheets to prevent leakage due to capillary action, all complete as per specification, drawing and instruction of Site Engineer.					
	<b>colour CGI sheet roofing</b>	sqm	25.7			
m	Providing and laying 1st quality ceramic glazed tiles, minimum thickness 6mm of approved make in all colours, shades of any size as approved by Engineer in skirting, risers of steps and dados over cement mortar 1:4 (1 cement : 4 sand) and joint filled with waterproof non-shrink polymer joint mortar in required colour, including surface preparation, protection, cleaning, etc. all complete as per instructions of the Engineer.					
	<b>floor/wall tiles</b>	sqm	22.3			
n	Mild Steel Pipe Truss (rafter, purlins) of approved steel sections (3.5mm) including necessary cleat angles, gussets, base plates, anchoring, hooks, Prefinished Eaves Board and applying two coats of enamel painting over primer on cleaned surface of steel, all complete.					
	<b>MS pipe truss</b>	kg	185			
o	Providing and applying at all levels and shape 12mm thick cement plaster in building interior area in specified cement mortar 1:6 (1 cement : 6 fine sand) in all surface at all height including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface including all necessary scaffolding, providing dripping, wetting, curing, protection, etc., all complete as per drawing, specification and instruction of the Engineer.					
	<b>12mm thick cement plaster</b>	sqm	68			

p	Providing and applying at all levels Cement rule Pointing in exterior area of building in specified cement mortar 1:3 (1 cement : 3 fine sand ) in all surface at all height including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface including all necessary scaffolding, prov dripping, wetting, curing, protection, etc., all complete as per drawing , specification and instruction of the Engineer.					
	<b>Cement Pointing</b>	sqm	49.58			
q	Providing and fitting plumbing & sanitary accessories with necessary fittings including all necessary fittings,fixtures all complete work as per specifications and instructions of the Engineer.					
	Wash Basin	no	2			
	Glazed pan	no	3			
	Shower/Tap set	set	8			
	1/2' or 1" dia CPVC pipe	rm	61			
r	Providing and applying two or more coats of first quality hundred percent acrylic paint (Distemper or approved equivalent manufactured by Asian Paints, Berger Paints, Nepalpaint ) of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping etc., washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.					
	<b>Acrylic Paint</b>	sqm	56.7			
	<b>sub-total</b>					
<b>5</b>	<b>Auditorium hall compound</b>					
a	Clearing and Grubbing the site for Construction by removing 15 cm thick top soil including bushes,trees, levelling etc					
	Site Clearing	Ls	1			
b	Earth Excavation in foundation in all type of soils for foundation,trenches,etc to the required depths as per design,drawing and instruction.					
	Earth/Excavation	cum	37.80			

c	Back Filling in foundation ,Floorwith approved type of excavated soil,and barrowed soil with full compaction,inclusing watering,ramming by rammer allcomplete work.					
	Back Filling .	cum	34			
d	Providing and laying mixed gravel below flat soling in foundation and floor in required line and level all complete as per drawings, specifications and instructions of the Engineer.					
	Mixed Gravel	cum	8.91			
e	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6(1 cement : 3 sand : 6 coarse aggregate ) using OPC 43 grade cement for foundation surface prepration work with line and leveling including , mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.					
	PCC1:3:6	cum	1.85625			
f	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:2:4(1 cement : 2 sand : 4 coarse aggregate ) using OPC 43 grade cement for DPC work with line and leveling including rein.steel 3.5kg/m ,formwork, wherever necessary, mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.					
	RCC for DPC	cum	2.25			
g	Providing and laying machine made hollow concrete block (150X200X400) wall in cement mortar 1:4 (1 cement :5coarse sand) in specified places in all heights and level including the cost of single or multi stage scaffolding, soaking bricks, curing, raking joints,provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.					
	<b>Concrete block work 1:5 c/s</b>	cum	27.945			

h	Supplying and laying 12 mm thick cement sand plaster in 1:6 in proper line level on Brick wall with all the necesseries as per drawing, specification and instructions of the Engineer.					
	<b>12mm thick cement plaster</b>	Sqm	136.8			
i	Providing and Fitting 2" dia round or square, 3.2mm th.Mild steel pipe to make frame for mesh wire, including cleatangle,gusset plate,runner plate, base plate, anchoring, hooks eves Board, and installation of anti climb barrier with 10 mm square bar with 6" leg above the mesh wire frame and applying 2 coat enamel paint over one coat primer all comple work as per given design and Drawings.					
	<b>Mild Steel frame</b>	kg	894.24			
	<b>10mm anti climbing barrier grill</b>	kg	65			
j	Providing and Fitting 3 mm Mesh wire (heavy Zink coating) works with required lap at all sides including necessary gusseet plate or runner and other if any and all complete works.					
	<b>Mesh wire</b>	Sqm	108.9			
k	providing and fitting sliding metal gate (1750*4000 mm)30mm x 30mm x 3mm box steel frame, Upright 30mm Box support approx every 2.5 metres, 2mm steel sheet cladding with all the necessary plate and angles etc					
	<b>Sliding metal Gate</b>	Ls	1			
l	site clearence after compltion of work	Ls	1			
	<b>sub-Total</b>					
<b>6</b>	<b>Garage Gravel road</b>					
a	filling of earth with in the road alignment as well as cutting in the same haul to contribute to the filling and levelling, maintaining the grade of the road alignment (not exceeding 10%)					
	Earth work in filling	cum	230			
b	supplying and laying out gravel layer of 75mm thick in the alignment and compaction					
	Mixed gravel	cum	54			

c	applying a 25 mm thick layer of stone dust over the gravel surface and compaction all complete	cum	18			
d	compaction of earth-filling, gravel and dust filling seperately with each layer being not more than 200mm using roller compactor					
	compaction	cum	302			
e	casting Rcc slab using M20 concrete over the road drain including all the reinforcement bar, form work and all if any					
	Rcc slab	cum	2.625			
f	installation of 6m wide metal gate including the two vertical at the each end, paintin and all the foundation work, all complete as per the instruction of site engineer					
	metal gate	LS	1			
	sub-total					
	Total					
	Vat 13%					
	<b>Grand Total</b>					

















1425.5

40.40533











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# RATE ANALYSIS

## 1. CGI Roof demolition

For 1 sqm

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled		0.027	1	825	22.275	
	Un skilled	MD	0.04	1	590	23.6	
B	<b>Tools/Equipments 1.5 % A</b>						
	Total A+B					46.56	
C	Add 15% OH & Profit					6.98	
	Total A+B+C					53.54	
				Say		5	sft

## 14 Corrugate 24# CGI sheet Roofing

For :- 10 m2

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	1.1	825	907.5	
	Un skilled	MD	1	1.25	590	737.5	
	Total					1645	
B	<b>Materials</b>						
	24# CGI Sh	m2	1	12	664	7968	
	7mm not b	nos	1	30	25	750	
	8mm J-ho	nos	1	25	15	375	
	Bitumin w	nos	1	55	3	165	
	Total					9258	
C	<b>Tools/Equipments 3 % A</b>						
	Total A+B+c					10903.00	
C	Add 15% OH & Profit					1635.45	
	Total A+B+C					12538.45	
						1253.845	sqm
				Say		<b>116.53</b>	sft

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled						
	Un skilled	MD	1	0.5	590	295	

B	<b>Equipments 3 % A</b>						
	with Compaction						
	Total A+B					295.00	
C	Add 15% OH & Profit					44.25	
	Total A+B+C					339.25	
				Say		9.61593	cft

#### 4 Earth/imported soil Back filling

For :- 1M3

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled						
	Un skilled	MD	1	0.5	590	295	
B	<b>Materials</b>						
	Soil import	m3	1	1.1	300	330	
C	<b>Equipments 3 % A</b>						
	Total A+B+c					625.00	
C	Add 15% OH & Profit					93.75	
	Total A+B+C					718.75	
				Say		20	cft

#### 5 PCC 1:3:6

For :- 1M3

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	1	825	825	
	Un skilled	MD	1	4	590	2360	
	<b>Total</b>					<b>3185</b>	
B	<b>Materials</b>						
	Cement	mt	1	0.22	14500	3190	
	Aggrigates	m3	1	0.89	1900	1691	
	Sand	m3	1	0.47	1420	667.4	
	<b>Total</b>					<b>5548.4</b>	
C	<b>Tools/Equipments 3 % A</b>						
	Total A+B+c					8733.40	
D	Add 15% OH & Profit					1310.01	

	Total A+B+C+D					10043.41	
				<b>Say</b>		<b>285</b>	cft

### 6 for RCC 1:2:4

For :- 1M3

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	0.8	825	660	
	Un skilled	MD	1	7	590	4130	
	<b>Total</b>					<b>4790</b>	
B	<b>Materials</b>						
	reinforcem	KG	1	40	75	3000	
	Cement	mt	1	0.42	14500	6090	
	Aggrigates	m3	1	0.89	1900	1691	
	Sand	m3	1	0.47	1420	667.4	
	<b>Total</b>					<b>11448.4</b>	
C	<b>Tools/Equipments 3 % A</b>						
	Total A+B+c					16238.40	
D	Add 15% OH & Profit					2435.76	
	Total A+B+C+D					18674.16	
				<b>Say</b>		<b>529.3129</b>	cft

### 7 Formworks

For :- 100 m2

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	17	825	14025	
	Un skilled	MD	1	25	590	14750	
	<b>Total</b>					<b>23180</b>	
B	<b>Materials</b>						
	19mm w/p	m2	1	16.5	1200	19800	
	Soft wood	m3	1	0.232	26812.8	6220.57	
	Probs/pipe	nos	1	4.4	1156	5086.4	
	Nail	kg	1	25	90	2250	
	<b>Total</b>					<b>33356.97</b>	
C	<b>Tool/Equip. 3 % A</b>						
	Total A+B+c					56536.97	
C	Add 15% OH & Profit					8480.55	
	Total A+B+C					65017.52	
				<b>Say</b>		<b>65</b>	sft

### 8 Local Brick work 1:5

For :- 1M3

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	1.5	825	1237.5	
	Un skilled	MD	1	3	590	1770	
	Total					3007.5	
B	<b>Materials</b>						
	Bricks	nos	1	542	14	7588	
	Cement	mt	1	0.09	14500	1305	
	sand	m3	1	0.31	1420	440.2	
	Total					9333.2	
C	<b>Tools/Equipments 3 % A</b>						
	Scaffolding						
	Total A+B+c					12340.70	
C	Add 15% OH & Profit					1851.11	
	Total A+B+C					14191.81	
				<b>Say</b>		<b>402.262</b>	cft

### 9 C:M 1:6 wall Plaster

For :- 100 m2

Hetauda

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	12	825	9900	
	Un skilled	MD	1	16	590	9440	
	Total					19340	
B	<b>Materials</b>						
	Cement	mt	1	0.482	14500	6989	
	sand	m3	1	1.57	1420	2229.4	
	Total					9218.4	
C	<b>Tools/Equipments 3 % A</b>						
	Scaffolding						
	Total A+B+c					28558.40	
C	Add 15% OH & Profit					4283.76	
	Total A+B+C					32842.16	
				<b>Say</b>		<b>328.4216</b>	m2
						<b>30.55085</b>	sft

10. stone soling  
for 1 cum

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	1	825	825	
	Un skilled	MD	1	1.5	590	885	
	<b>Total</b>					1710	
B	Materials						
	stone			1	1000	1000	
	bond stone			0.2	3563	712.6	
C	<b>Tools/Equipments 3 % A</b>					51.3	
	Total A+B+c					3473.90	
C	Add 15% OH & Profit					521.09	
	Total A+B+C					3994.99	cum

## 8 Reinforcement steel

For :- 1Mt

Sn	Description	Unit	Nos	Quantity	Rate	Amount	Remarks
A	<b>Labours</b>						
	Skilled	MD	1	12	665	6600	
	Un skilled	MD	1	12	475	4620	
	<b>Total</b>					<b>11220</b>	
B	Materials						
	Reinforcement	mt	1	1.1	80000	88000	
	GI Binding w	kg	1	12	120	1440	
	<b>Total</b>					<b>89440</b>	
C	<b>Tools/Equipments 3 % A</b>						
	Total A+B+c					100660.00	
C	Add 15% OH & Profit					15099.00	
	Total A+B+C					115759.00	
				<b>Say</b>		<b>115759</b>	Mt



Calculation Sheet

S.N	Description	Unit	Nos.	Length	Breath	Height	Quantity	Remarks
<b>1</b>	<b>Garage</b>							
a	mesh wire	Sqm		12		2.5	30	
					10	2.5	25	
	<b>Total</b>						55	
b	Mild steel Frame	Kg		80			352	4.4kg/meter.
				80			88	1.1kg/meter.
	<b>total</b>						<b>440</b>	
<b>2</b>	<b>Old Girls Hostel</b>							
a	roof demolition	Sqf		30	18		<b>540</b>	
b	Mild steel truss							
	2"X2" pipe truss		2	11.3			83.846	3.71kg/m
	1.5" pipe truss bracing		2	4.6			31.74	3.45 kg/m
	2"X2" purlin		6	10.4			231.504	
	2"X2" Rafter		4	4			59.36	
	<b>Total</b>						<b>406.45</b>	
c	CGI roofing		2	10.4	3.6		<b>74.88</b>	
d	false celing		1	8.5	5.5		<b>46.75</b>	
<b>3</b>	<b>Canteen</b>							
a	CGI roof demolition	Sq. Ft.					480	
b	Brick wall demolition	cum					23	
c	Excavation	cum	2	12	0.6	1.2	17.28	
			4	5.4	0.6	1.2	15.552	
	<b>Total</b>						<b>32.832</b>	
d	Back Filling	Cum	2	12	0.35	0.8	6.72	
			4	5.4	0.35	0.8	6.048	
			1	12	5.4	0.4	25.92	
	<b>Total</b>						<b>38.688</b>	
e	Mixed gravel	cum	2	12	0.6	0.15	2.16	
			4	5.4	0.6	0.15	1.944	
	<b>total</b>						<b>4.104</b>	
	stone soling	cum	1	10.4	4.2	0.15	6.552	
f	PCC	cum						
	Foundation						4.1	same as gravel
	flooring	cum					6.5	
	<b>total</b>						<b>10.6</b>	
g	DPC	cum	2	10.4	0.25	0.15	0.78	
			4	4.2	0.25	0.15	0.63	
	sill and lintel band	cum	2	10.4	0.25	0.1	0.52	
			4	4.2	0.25	0.1	0.42	
			6	4	0.25	0.1	0.6	
	<b>total</b>						<b>2.95</b>	
h	Reinforcement Bar	kg	2	10.4			93.6	4.5kg/m

	sill and lintel band		2	4.2			37.8	
			2	10.4			31.2	1.5kg/m
			4	4.2			25.2	
			1	27.5			41.25	
	kitchen slab		1	46			92	2kg/m
	total						321.05	
i	Brick Work	cum						
			2	3.69	0.25	7.47	13.78215	
			3	3.69	0.25	4.27	11.817225	
			2	1.86	0.25	3.92	3.6456	
			2	1.86	0.25	4.27	3.9711	
			1	4.2	0.25	1	1.05	
	opening deduction						2.3	
	total						31.966075	
j	sal wood frame	cum	2	9.4	0.1	0.075	0.141	
k	solidcore flushed door	sqf	2	6	3		36	
l	aluminium window	sqf	4	5	4		80	
m	plaster	sqf	6	14	9		756	
			4	24.5	9		882	
			6	14	3		252	
	opening deduction						114	
	total						1776	
n	concrete flooring	sqf	2	12	14		336	
			1	10	14		140	
	total						476	
o	MS Pipe Truss	KG						
	Vertical member		8	3.7			109.816	3.71Kg/m
	truss 2"X2" pipe		4	9.82			145.7288	
	bracing and inclined member		4	4.9			57.232	2.92kg/m
	Rafters and purlin		4	32.31			479.4804	3.71kg/m
	total						792.2572	
p	Fixing CGI sheet	sqm	2	12.6	3.1		78.12	
q	false ceiling	sqm					44.3	
r	acrylic paint	sqf					1776	same as plaster
s	enamel paint	sqf					116	
t	floor/wall tiles	sqf	1	14	5		70	
			1	23	7		161	
	total						231	
<b>4</b>	<b>TOILET</b>							
a	Earth work in Excavation	Cuf	2	24	2	3	288	
			3	12	2	3	216	
	Total						<b>504</b>	
b	Back filling	Cuf	1	19	10	2	380	
			2	24	1	3	144	

			3	12	1	3	108	
	Total						<b>632</b>	
c	Gravel	cuf	1	84	2	0.5	<b>84</b>	
d	pcc	cuf					42	half of gravel
			1	18	9	0.25	40.5	
	<b>total</b>						<b>82.5</b>	
e	stone soling	cuf	1	18	9	0.5	<b>81</b>	
f	DPC	cuf	1	54.33	1	0.75	<b>40.7475</b>	
g	reinforcement	Kg	6	17			<b>62.22</b>	0.61kg/m
h	Brick work	cuf	2	18.5	0.84	12	372.96	
			3	8	0.84	12	241.92	
			1	2	0.84	18.5	31.08	
			1	3	0.84	8	20.16	
	urinal partition	cuf	8	2	0.42	3	20.16	
	Deduction		3	6	0.84	3	45.36	
	Total						<b>640.92</b>	
i	plaster	sqf	2	16.5	9		297	
			1	16.5	3		49.5	
			6	8	8		384	
	urinal partition		8	3	3		72	
	Deduction		4	6	3		72	
	Total						<b>730.5</b>	
j	pointing	sqf	2	18.5	9		333	
			1	18.5	3		55.5	
			1	11	9.5		104.5	
			1	8	9.5		76	
	Deduction		2	6	3		36	
	total						<b>533</b>	
k	Plane sheet shutter	sqf	4	6	3		<b>72</b>	
l	flooring	cuf	1	18	9		<b>162</b>	
m	floor/wall tiles	sqf						
			1	3	16		48	
			16	3	3		144	
			1	3	16		48	
n	CGI roofing	sqf	1	23	12		<b>276</b>	
o	ms pipe	kg	4	23			104	3.71kg/m
			6	12			81	
	total						<b>185</b>	
p	sal wood frame	cuf	4	15	0.25	0.33	<b>4.95</b>	
<b>5</b>	<b>Auditorium hall compound</b>							
1	Site Clearence	LS	1				1	
2	Earth work Excavation in foundation							
	Earth work Excavation wall	m3	1	90	0.6	0.7	37.8	
3	BackFilling	m3					34.02	

4	Gravel Filling	m3	1	90	0.6	0.15	8.91	
5	3" PCC 1:3:6	m3	1	90	0.25	0.075	1.85625	
6	10cm DPC 1:2:4 with 3.5kg steel/rm	m3	1	90	0.25	0.1	2.25	
7	Supplying and laying of Concrete block masonry work in 1:4 c/s mortar.	m3	1	90	1.38	0.225	27.945	
8	Supplying and laying 12 mm thick cement sand plaster in 1:6 in proper line level on Brick wall.	m2	2	90	0.76		136.8	
9	Providing and Fitting 2" dia round or square, 3.2mm th.Mild steel pipe to make frame for mesh wire, including cleatangle, gusset plate, baseplate, anchoring, hooks eves Board, anti climb barrier with 10 mm square bar and applying 2 coat enamel paint over one coat primer all comple work as per given design and Drawings.							
	2" vertical post	rm	45			1.52	68.4	3.6Kg/m
	2" horizontal Pipe	rm	2	90			180	
							894.24	Kg
								plate incl.
	10 mm bar for anti climbing barrier grill	rm	1	90		0.45	40.5	0.61kg/m
							24.705	kg
	Total	Kg					918.945	
10	Providing and Fitting 2.7 mm Mesh wire (heavy Zink coating) works with required lap at all sides including necessary gusset plate or runner and other if any and all complete works.							
	Total	m2	1	90	1.21		108.9	
11	providing and fitting sliding metal gate (1750*4000 mm) with all the necessary plate and angles etc							300 kg metal work
	Gate	Ls	1				1	

