

**GLULAM SHED 50X20 FOUNDATION WORKS**  
**SIMPLIFIED BOQ**

**Estimated using : BSR 2025**  
**Location:NRDCL sawmill area, Ramtokto, Thimphu**  
**Shed dimension : 50m X 20m X 4m**

Sl no	Description	Qty	Unit	Rate	Amount	Remarks
1.00	<b>Columns</b>					
	Steel work in single section including cutting, hoisting, fixing and applying priming coat of red lead paint in ISHB 200 and ISHB 300	6943.2	Kg			SW0001
2.00	<b>Column Cap</b>					
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint In Tees, angles, flats and channels for column base plates including the stiffeners and gusset plates	233.15	Kg			SW0021
3.00	<b>Column Bracing</b>					
	Steel work riveted or bolted, in built up sections, trusses, frame-works, including cutting, hoisting, fixing and applying priming coat of red lead paint in circular hollow sections in column bracing	598.94	Kg			SW0010
	Steel work riveted or bolted, in built up sections, trusses, frame-works, including cutting, hoisting, fixing and applying priming coat of red lead paint in In Tees, angles, flats and channels in bracing components for columns	288.59	Kg			SW0011
4.00	<b>Girt</b>					
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint tubular sections for Girts	6129.21	Kg			SW0022
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint In Tees, angles, flats and channels for Girt connection	292.52	Kg			SW0021
5.00	<b>Purlins</b>					
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint tubular sections for Purlins	8266.91	Kg			SW0022
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint In Tees, angles, flats and channels for Purlin connection	314.90	Kg			SW0021
6.00	<b>Truss</b>					
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint in tubular sections for roof trusses	8809.02	Kg			SW0022
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint In Tees, angles, flats and channels fortruss base plates including the stiffeners and gusset plates	205.17	Kg			SW0021
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint In Tees, angles, flats and channels for truss connection to base plate	177.14	Kg			SW0021
7.00	<b>Tie Runner</b>					
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint in tubular sections for tie runners	1743.69	Kg			SW0022
	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and applying priming coat of red lead paint In Tees, angles, flats and channels for tie runner connection to truss	90.15	Kg			SW0021
8.00	<b>Roof bracing</b>					

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11.00	<b>Soling</b>								
	Providing and laying Hand packed stone filling or soling with stones.	11.96	m <sup>3</sup>		-	SM0072			
12.00	<b>Plain Cement concrete</b>								
	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:4:8 (1 cement : 4 sand : 8 graded crushed rock 40 mm nominal size)	10.77	m <sup>3</sup>		-	CW0008			
13.00	<b>Formwork</b>								
	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork Foundation and plinth etc.	319.88	sq.m		-	RC0090			
14.00	<b>Reinforcement</b>								
	Providing & fixing Thermo-Mechanically Treated reinforcement bar (YieldStrength500MPa) for R.C.Cwork including cutting,bending, binding and placing in position complete	1754.79	kg		-	RC0083			
15.00	<b>Reinforced cement concrete</b>								
	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement-all work upto plinth level 1:1:2 (1 cement : 1 sand : 2 graded crushed rock 20 mm nominal size)	31.90	m <sup>3</sup>		-	RC0001			
<b>CONCRETE FLOORING</b>									
16.00	<b>Soling</b>								
	Providing and laying Hand packed stone filling or soling with stones.	181.50	m <sup>3</sup>		-	SM0072			
17.00	<b>Plain Cement concrete</b>								
	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level. 1:4:8 (1 cement : 4 sand : 8 graded crushed rock 40 mm nominal size)	181.50	m <sup>3</sup>		-	CW0008			
18.00	<b>Formwork</b>								
	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork Foundation and plinth etc.	79.20	sq.m		-	RC0090			
19.00	<b>Reinforcement</b>								
	Providing & fixing Thermo-Mechanically Treated reinforcement bar (YieldStrength500MPa) for R.C.Cwork including cutting,bending, binding and placing in position complete	3867.65	kg		-	RC0083			
20.00	<b>Reinforced cement concrete</b>								
	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement-all work upto plinth level 1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	181.50	m <sup>3</sup>		-	RC0002			
<b>BACK FILLING</b>									
21.00	<b>Back Filling</b>								
	Filling of trenches,sides of foundations etc.inlayers<200mm using selected excavated earth, ramming etc. within lead 50 m & lift 1.5m	1365.35	m <sup>3</sup>			EW0195			
<b>ANCHOR BOLS AND TEMPLATE PLATES</b>									
22.00	<b>Anchor Bolts</b>								
	Providing & fixing M.S.round hold-down anchor bolts with nuts and washer plates (M20) bolts in foundation	937.70	kg			SW0080			
23.00	<b>Template Plate 5 mm</b>								

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