

ESTIMATE

Division : Surendranagar Division Surendranagar

Sanctioned Estimate No. :

Fund Head :

Major Head :

Minor Head :

Sub Head :

GENERAL DESCRIPTION

Estimate framed in the Office of The Deputy Executive Engineer ( Forests ) , Junagadh Forest Circle , Junagadh , for the probable expenditure that will be incurred in Erection of Machaan at Various Place as instructed in Chotila Range , Chotila of Surendranagar Division Surendranagar

Amount Rs. 42830 / -

Estimate is prepared considering current rates as per R & B S.O.R. of Surendranagar Division Sanctioned for the year 2024 - 25

SPECIFICATIONS

As per Standard Specifications for All Structures , PWD Hand Book Vol. I & II

Name of Work : Erection of Machaan at Various Place as instructed in Chotila Range ,  
Chotila of Surendranagar Division Surendranagar

**A B S T R A C T**

QTY	UNIT	ITEM DESCRIPTION	RATE	PER	AMOUNT
0.27	CuM	<b>ITEM No. 1</b> Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil ( R & B S.O.R. Item 04B001B P 71 Yr 2024 - 25 )	259.14 2.59 261.73	Labour Cess @ 1 % CuM	70.67
0.05	CuM	<b>ITEM No. 2</b> Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth ( R & B S.O.R. Item 5.3.3 ( 05004A ) P 73 Yr 2024 - 25 )	2604.63 26.05 2630.68	Labour Cess @ 1 % CuM	131.53
0.72	CuM	<b>ITEM No. 3</b> Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (B)Independent piers, columns, and pillars, upto floor two level ( R & B S.O.R. Item 5.3.13 ( 05010BA ) P 74 Yr 2024 - 25 )	3595.53 35.96 3631.49	Labour Cess @ 1 % CuM	2614.67
12.00	Rmt	<b>ITEM No. 4</b> Providing and fixing to wall, ceiling and floor galvanised Mild steel tubes (Medium grade) of the following nominal bore, tube fitting and clamps including making good the wall ceiling and floor.(F) 50mm ( R & B S.O.R. Item 23.2 ( 23001FA ) P 161 Yr 2024 - 25 )	779.60 7.80 787.40	Labour Cess @ 1 % Rmt	9448.80
10.00	Rmt	<b>ITEM No. 5</b> Providing and fixing to wall, ceiling and floor galvanised Mild steel tubes (Medium grade) of the following nominal bore, tube fitting and clamps including making good the wall ceiling and floor.(D) 32mm ( R & B S.O.R. Item 23.2 ( 23001DA ) P 161 Yr 2024 - 25 )	491.51 4.92 496.43	Labour Cess @ 1 % Rmt	4964.30
1.332	q	<b>ITEM No. 6</b> Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like ( R & B S.O.R. Item 23.2 ( 23001DA ) P 115 Yr 2024 - 25 )	8958.28 89.58 9047.86	Labour Cess @ 1 % q	12051.75
0.143	q	<b>ITEM No. 7</b> Steel work, riveted in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A) In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like. ( R & B S.O.R. Item 11.4 ( 11002AA ) P 115 Yr 2024 - 25 )	5761.04 57.61 5818.65	Labour Cess @ 1 % q	832.07

# A B S T R A C T

QTY	UNIT	ITEM DESCRIPTION	RATE	PER	AMOUNT
3.73	SqM	<b>ITEM No. 8</b>			
		Providing Zinc Galvanized Alluminium Durashine Colour Coated Sheets Roofing fixed with G.I. J or I hooks, bolts and nuts 8 mm diameter with Bitumen and G.I. limped Washers, filled with white lead complete excluding the cost of purlins, rafters and trusses. (1) 0.45 mm thick Sheets	897.00		
		(As per R.A. Attached)	8.97	Labour Cess @ 1 %	
			905.97	SqM	3379.27
6.15	SqM	<b>ITEM No. 9</b>			
		Providing and Fixing Chain Link of aproved Quality to make confirming to IS 2721-1979 Mess Openning 35 mm x 35 mm 10 W.S.G.G.I. Wire ( 38 x 38 x 10 ) with Zinc Coating 90 GSM confirming to IS 4826-1979 for Fencing including labour charge for erecting in line and level with rivetting as directed etc. complete.	450.00		
		(Based on prevailing marke rates)	4.50	Labour Cess @ 1 %	
			454.50	SqM	2795.18

Total Rs. 36288.24

Add 18 % for GST Rs. 6531.88

Grand Total Rs. 42820.12

Say, Rs. 42830 / -

Range Forest Officer  
જેન્ન ફોરેસ્ટ ઓફિસ  
ચોટીલા

(B. K. Katariya)  
Deputy Executive Engineer ( Forests )  
Junagadh Forest Circle  
Junagadh

Deputy Conservator of Forests  
Surendranagar Division  
Surendranagar

Technically Sanctioned for

Rs. 42,830.12

Vide T.S Register No. 13 Page No. 14

Sr. No. 01

Administratively Approved for

Rs. 42,830.12 /- Rupees

Fourty two Thousand

Eight Hundred thirty Only

Sr.No. 2 Page No. 116

(B. K. Katariya)  
Dy. Ex. Engineer ( Forests )  
Junagadh Forest Circle  
Junagadh

નાયબ વન સરકસ  
સુરેન્દ્રનગર

Name of Work : Erection of Machaan at Various Place as instructed in Chotila Range , Chotila of Surendranagar Division Surendranagar

### MEASUREMENTS

ITEM DESCRIPTION	No.	L	B	D	QUANTITY
<b>ITEM No. 1</b>					
Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil					
Vertical Pole Fdn	4	x	0.30	x	0.30 x 0.75 = 0.27
					Say , 0.27 CuM
<b>ITEM No. 2</b>					
Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth					
Vertical Pole Fdn	4	x	0.30	x	0.30 x 0.15 = 0.05
					Say , 0.05 CuM
<b>ITEM No. 3</b>					
Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (B)Independent piers, columns, and pillars, upto floor two level					
Pole Foundation	4	x	0.30	x	0.30 x 0.60 = 0.72
					Say , 0.72 CuM
<b>ITEM No. 4</b>					
Providing and fixing to wall, ceiling and floor galvanised Mild steel tubes (Medium grade) of the following nominal bore, tube fitting and clamps including making good the wall ceiling and floor.(F) 50mm					
(A) Verical Poles	4	x	3.00	=	12.00
	Total Quantity =				12.00
				Say ,	12.00 Rmt
<b>ITEM No. 5</b>					
Providing and fixing to wall, ceiling and floor galvanised Mild steel tubes (Medium grade) of the following nominal bore, tube fitting and clamps including making good the wall ceiling and floor.(D) 32mm					
Anchors at Fondation	4	x	4	x	0.25 = 4.00
Middle Suppport Frame	1	x	2	x	2.00 = 4.00
	1	x	2	x	1.00 = 2.00
	Total Quantity =				10.00
				Say ,	10.00 Rmt
<b>ITEM No. 6</b>					
Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like					
(C) 50 x 25 x 2.6 mm	G I Box Pipes	weighing @	2.71	Kg / Rmt	
Bottom Lower Frame	1	x	2	x	2.00 = 4.00
	1	x	2	x	1.00 = 2.00
Bottom Upper Frame	1	x	2	x	2.00 = 4.00
	1	x	5	x	1.00 = 5.00



**MEASUREMENTS**

ITEM DESCRIPTION	No.	L	B	D	QUANTITY
Vertical Supports	1 x 12	x 0.10	=	1.20	
				16.20 Rmt	
Total Weight of G I Box Pipes		16.20	x 2.71	=	43.90 Kg
(D) 25 x 25 x 2.6 mm	G I Box Pipes	weighing @	1.69	Kg / Rmt	
Machaan Cage Middle	H 1 x 2	x 2.00	=	4.00	
	1 x 2	x 1.00	=	2.00	
Vertical	1 x 2	x 0.90	=	1.80	
	1 x 2	x 1.025	=	2.05	
	1 x 3	x 1.15	=	3.45	
Door	V 1 x 2	x 1.15	=	2.30	
	H 1 x 3	x 0.75	=	2.25	
Machaan Roof Frame	1 x 2	x 2.57	=	5.14	
	1 x 3	x 1.38	=	4.13	
Ladder	1 x 2	x 2.50	=	5.00	
	1 x 12	x 0.45	=	5.40	
	Total Quantity	=	37.52 Rmt		
Total Weight of G I Box Pipes		37.52	x 1.69	=	63.41 Kg
(I) 16 Gauge ( 1.61 mm Th )	G.I. Sheet	weighing @	12.967	Kg / SqM	
	1 x 2.00	x 1.00	=	2.00 Rmt	
Total Weight of G.I. Sheet		2.00	x 12.97	=	25.93 Kg
	Total Quantity	=	133.24		
		=	1.332	q	
	Say ,		1.332	q	

**ITEM No. 7**

Steel work, riveted in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A) In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like.

(E) 25 x 3 mm Beading	G.I. Flat	weighing @	0.60	Kg / Rmt	
Machaan Horizontal	1 x 2	x 2.00	=	4.00	
	1 x 2	x 1.00	=	2.00	
Vertical	1 x 2	x 0.90	=	1.80	
	1 x 2	x 1.025	=	2.05	
	1 x 3	x 1.15	=	3.45	
Bottom Frame	1 x 2	x 2.00	=	4.00	
	1 x 2	x 1.00	=	2.00	
Door	V 1 x 2	x 1.15	=	2.30	
	H 1 x 3	x 0.75	=	2.25	
	Total Quantity	=	23.85 Rmt		
Total Weight of G.I. Flat		23.85	x 0.60	=	14.31 Kg
			Say ,	0.143	q
			Say ,	0.143	q

**ITEM No. 8**

Providing Zinc Galvenized Alluminium Durashine Colour Coated Sheets Roofing fixed with G.I. J or I hooks , bolts and nuts 8 mm diameter with Bitumen and G.I. limped Washers , filled with white lead complete excluding the cost of purlins , rafters and trusses . (1) 0.45 mm thick Sheets

Roofing Sheet	1 x 1.43	x 2.62	=	3.73	
			Say ,	3.73	SqM

MEASUREMENTS


ITEM DESCRIPTION	No.	L	B	D	QUANTITY
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**ITEM No. 9**

Providing and Fixing Chain Link of aproved Quality to make confirming to I S 2721-1979 Mess Openning 35 mm x 35 mm 10 W.S.G.G.I. Wire ( 38 x 38 x 10 ) with Zinc Coating 90 GSM confirming to IS 4826-1979 for Fencing Including labour charge for erecting in line and level with rivetting as directed etc. complete .

Allover	Left	1	x	1.00	x	1.15	=	1.15
	Right	1	x	1.00	x	0.90	=	0.90
	F & R			1.15	+	0.90	=	4.10
		2	x	2.00	x	2		
Total Quantity =								6.15
Say,								6.15 SqM

  
Range Forest Officer  
જૂનાગઢ ફોરેસ્ટ ઓફિસર  
ચોટીલા

  
Deputy Executive Engineer ( Forests )  
Junagadh Forest Circle  
Junagadh

  
Deputy Conservator of Forests  
Surendranagar Division  
Surendranagar

Name Of Work :

Erection of Machaan at Various Place as instructed in Chotila Range , Chotila of Surendranagar Division Surendranagar

**RATE ANALYSIS**

**Item No. 8**

Providing Zinc Galvenized Alluminium Durashine Colour Coated Sheets Roofing fixed with G.I. J or I hooks , bolts and nuts 8 mm diameter with Bitumen and G.I. limped Washers , filled with white lead complete excluding the cost of purlins , rafters and trusses . (1) 0.45 mm thick Sheets

Considering 10 SqM of Roofing

Sr. No	Description	Qty	Unit	Rate	Amounts
1	2	3	4	5	6
1	0.45 mm Thick Zinc Galvenized Alluminium Durashine Colour Coated Sheets Roofing ( Market Rate )	10.00	SqM	646.00	6460.00
2	Add Overlaps and Wastage @ 2 % of Sr. No. 1 above	0.20	SqM	646.00	129.20
3	Fastening Accessory @ 10 % of Sr. No. 1 above				646.00
4	Blacksmith 1 st Class ( S.O.R 2024-25 Basic Rates Sr.162 / L 003	0.17	EACH	760.00	131.60
5	Unskilled Labours - Mazdoor ( S.O.R 2024-25 Basic Rates Sr.181 / L022	0.87	EACH	505.00	437.23

Cost of 10 SqM Roofing Rs. 7804.03  
Add 15 % for Contractor's Profit Rs. 1170.60


Total Cost of 10 SqM Roofing Rs. 8974.63

Cost of 1.00 SqM Roofing Rs. 897.40

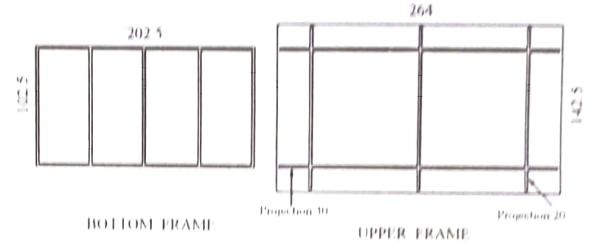
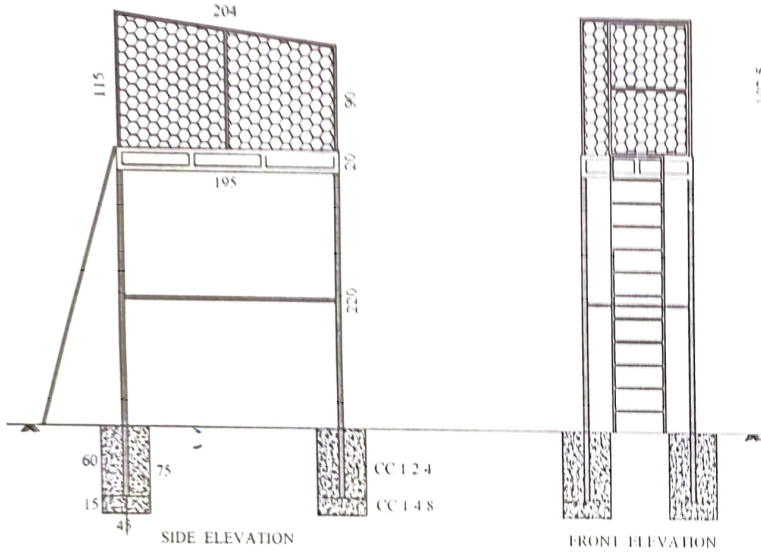
**Say Rs. 897.00**  
**Per SqM**

  
Range Forest Officer  
રેન્જ ફોરેસ્ટ ઓફિસર  
ચોટીલા

  
નાયબ વન સંરક્ષક  
સુરેન્દ્રનગર

  
Deputy Executive Engineer ( Forests )  
Junagadh Forest Circle  
Junagadh

Name of Work Erection of Machaan at Various Place as instructed in Chotila Range, Chotila of Surendranagar Division  
Surendranagar



#### FABRICATION DETAILS

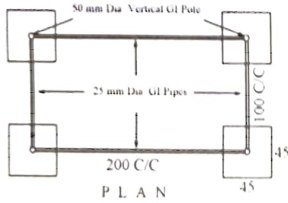
A - 50 mm dia GI Pipe

B - 25 x 25 x 1.2 mm GI Beam

D - 25 x 3 MS Beading Patti

C - 32 mm dia GI Pipe

E - 16 Gauge mm GI Sheet



RANGE FOREST OFFICER  
CHOTILA RANGE  
CHOTILA

DEPUTY CONSERVATOR OF FORESTS  
SURENDRANAGAR DIVISION  
SURENDRANAGAR

DEPUTY EXECUTIVE ENGINEER (FORESTS)  
JUNAGADH FOREST CIRCLE  
JUNAGADH

નાયબ વન સંરક્ષક  
સુરેન્દ્રનગર

રેન્જ ફોરેસ્ટ ઓફીસર  
ચોટીલા