

Name of Work: - Construction of Wall-Magazine for Rabindranath Tagore University, Hojai.

Estimated Amount: - 1, 46, 892.00

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Estimate framed to show the probable cost of the above-mentioned work
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REPORT

This detailed Estimate amounting to Rs. 1, 46, 892.00 (Rupees One Lakh forty six thousand, eight hundred and ninety two) only has been prepared to show the probable cost of the work “Construction of Wall-Magazine for Rabindranath Tagore University, Hojai”.

There is no wall Magazine in the University. Hence, considering its necessity and desired by the Students Union, the Authority of Rabindranath Tagore University proposed to construct the same.

Accordingly, the Estimate prepared with the following provisions:

1. Civil Works: One C.I. sheeted and R.C.C. wall Magazine of size (2.13X1.54) M with rolled aluminum shutters with glass provided.
2. Consultancy: A premium of 1% (one Percent) provided for preparing Drawing/Estimate etc. as required.

The estimate is prepared based on C.P.W.D. Schedule of rates for 2021.
All works will be carried out as per C.P.W.D. General Specifications.

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ABSTRACT OF COST

- | | |
|---|-------------------|
| 1. Civil Works | : Rs. 1,45,438.00 |
| 2. Consultancy 1% (During estimate and work supervision): | Rs. 1, 454.00 |
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Grand Total: Rs. 1, 46,892.00

(Rupees One Lakh forty six thousand, eight hundred and ninety two)

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1/2.6 : E/W in excavation in foundation trends

2.6.1 : All kind of soil

Post – 2x0.90x0.90x1.10 = 1.78m³

P.B. - 1x1.88x0.50x0.25 = 0.23m³

Total = 2.01m³

@ Rs. 205.45/m³

Rs. 413.00

2/4.1 : Providing and laying C.C. work up tp P.L.

4.1.5 : 1:3:6

Post – 2x0.90x0.90x0.10 = 0.16m³

@ Rs. 6.833.40/m³

Rs. 1,093.00

3/5.22 : Providing reintracement

5.22.6: TMT bar

Footing (8φ) - 2x2x7x0.90x0.39 = 9.82kg

Post (12φ) - 2x4x3.85x0.89 = 27.41kg

P.B. (16φ) - 1x4x2.63x1.58 = 16.62kg

Mid.bm (12φ) - 1x4x2.38x0.89 = 8.47kg

Top bm(10φ) - 1x4x2.38x0.62 = 5.90kg

Post stim up(6φ)- 2x18x1.00x0.22 = 7.92kg

P.B. Stim up(6φ)-1x7x1.10x0.22 = 4.11kg

Mid. bm(6φ) – 1x15x1.00x0.22 = 3.30kg

Top bm(6 φ) – 1x15x0.90x0.22 = 2.97kg

Slabs 8 φ - 2x17x1.25x0.39 = 16.57kg

Slabs 6 φ - 2x3x2.38x0.22 = 3.14kg

Side Walls 8 φ- 2x11x1.25x0.39 = 10.72kg

Side Walls 6 φ- 2x3x1.50x0.22 = 1.98kg

@ Rs. 89.65/kg

Rs. 10,662.00

C.O. Rs. 12,168.00

B.F. Rs. 12,168.00**4/5.1** : Providing R.C.C. works up to P.L.

5.1.2 : 1:1.5:3

Post : $2 \times 0.75 \times 0.75 \times 0.30 = 0.33\text{m}^3$

$2 \times 0.50 \times 0.50 \times 0.70 = 0.35\text{m}^3$

P.B.: $1 \times 1.63 \times 0.25 \times 0.30 = 0.12\text{m}^3$

Total = 0.80m³

@ Rs. 8,364.20/m³

Rs. 6,691.00

5/5.2 : R.C.C. Works in caln.

5.2.2 : 1:1.5:3

Post - $2 \times 2.60 \times 0.25 \times 0.25 = 0.32\text{m}^3$

@ Rs. 10,185.05/m³

Rs. 3,259.00

6/5.3 : R.C.C. work in beam, Chajjah, Lintel

Mid. bm - $1 \times 1.88 \times 0.25 \times 0.30 = 0.14\text{m}^3$

Chajjah - $2 \times 1.83 \times 0.08 \times 0.25 = 0.03\text{m}^3$

Chajjah - $2 \times 1.53 \times 0.08 \times 0.25 = 0.06\text{m}^3$

Top Bm. - $1 \times 1.88 \times 0.25 \times 0.20 = 0.09\text{m}^3$

Total = 0.32m³

@ Rs. 10,719.30/m³

Rs. 3,430.00

7/5.9 : Cen toing and Shuttering

5.9.1 : Foundation Footing

Post - $2 \times 4 \times 0.75 \times 0.30 = 1.80\text{m}^2$

$2 \times 4 \times 0.50 \times 0.70 = 2.80\text{m}^2$

P.B. - $1 \times 2 \times 1.63 \times 0.30 = 0.97\text{m}^2$

Total = 5.57m²

@ Rs. 307.95/m²

Rs. 1,715.00

5.9.3 : Suspended floor , lands etc.

Chajjah – $2 \times 1.91 \times 0.25 = 0.95\text{m}^2$

$2 \times 0.08 \times 0.25 = 0.04\text{m}^2$

$2 \times 2 \times 1.50 \times 0.25 = 1.50\text{m}^2$

Total = 2.49m²

@ Rs. 7.66.55/m²Rs. 1,909.00**C.O. Rs. 29,172.00**

B.F. Rs. 29,172.00**5.9.5** : Beams Lintels

Mid. bm	- 1x1.88x0.30x2	= 0.52m ²
	1x1.88x0.25	= 0.47m ²
Top bm.	- 1x2x1.88x0.20	= 0.75m ²
	1x1.88x0.25	= <u>0.47m²</u>
Total		= 2.21m²

@ Rs. 608.35/m²

Rs. 1,344.00

5.9.6 : Column, Pillars

Post	- 2x2.60x4x0.25	= 5.20m ²
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@ Rs. 804.25/m²

Rs. 4,182.00

8/6.3 : Brick work with common burnt bricks.

6.3.2 : Modular bricks

Magazine Wall- 1x1.88x1.29x0.125=0.30m³Name plate - 1x1.20x0.75x0.125=0.11m³**Total = 0.41m³**@ Rs. 7814.65/m³

Rs. 3,204.00

9/13.2 : 15mm cement plaster

13.2.1 : 1:4

Name Plate	- 1x2x1.20x0.75	= 1.88m ²
Edges	- 2x0.75x0.13	= 0.45m ²
	-1x1.20x0.13	=0.15m ²
Magazine	-1x2x2.38x1.79	=8.52m ²
Chajjah	-2x2x2.38x0.25	=2.38m ²
Chajjah	-2x2x1.50x0.25	=1.50m ²
Edges	-2x2.38x0.13	=0.61m ²
Cd. (out)	-2x2.60x0.25	=1.30m ²
Cd(bottom)	-2x3x0.25x0.91	= 1.36m ²
BM. Top +Btm	-2x2.38x0.25	= <u>1.19m²</u>

Total = 19.34m²@ Rs. 339.70/m²Rs. 6,570.00**C.O. Rs. 44,472.00**

B.F. Rs. 44,472.00

10/10.16 : Steel works (Round. Sq.or rectangular) for traces**10.16.1** : Hot Finished

Rafter 18.800D for Post- 3x2.70=8.10RM

@ Rs. 4.38kg/RM =35.47kg

Post Plate (60.80 OD)- 2x4.00=8.00RM

@ Rs. 6.19kg/RM =49.52kg

Post (76.60 OD) - 2x3.00 =6.00RM

- 2x2.70=5.40RM

Total = 11.40RM

@ Rs. 7.93kg/RM =90.40kg

Perlin (42.9 OD) - 3x4.00=12.00RM

@ Rs. 3.80kg/RM =45.60kg

Grand Total = 220.99kg

@ Rs. 154.90/kg

Rs. 34,251.00

11/12.1: Providing C.G.S sheet roofing

12.1.3 : 0.63mm thick

Roof – 1x4.80x3.10 = 14.88m²@ Rs. 978.00/m²

Rs. 14,553.00

12/11.7 : Cement Concrete pavement in Prop. 1:2:1Base of floor – 1x6.20x3.80x0.10 = 2.35m³For paver edge-2x6.20x0.20x0.08 = 0.19m³1x3.80x0.20x0.08 = 0.06m³Total = 2.60m³@ Rs. 7,958.65/m³Rs. 20,692.00**C.O. Rs. 1,13,968.00**

B. F. Rs. 1,13,968.00**13/16.91** : Providing and laying pavers block

16.91.2 : 80mm block of M-30 grade

Floor – 1x5.80x3.40 = 19.72m²@ Rs. 1,011.20/m²

Rs.19,941.00

14/21.1 : Providing and fixing aluminum works for Door,
Window of venti Separately.

21.1.1 : Fixed portion

21.1.1.1: Anodised aluminum

Choukat (63x49.50x1.16)mm- 2x1.88 =3.76RM

4x1.29= 5.16RM**Total = 8.92RM**

@ Rs. 0.82kg/RM = 7.31kg

@ Rs. 433.95/kg

Rs. 3,172.00

21.1.2 : For shutters of D, W of V.

21.1.2.1: Annodised Alluminium

H- Section (41x20x1.5)mm – 2x3x0.60 = 3.60RM

@ Rs. 0.472kg/RM = 1.69kg

A- Section (39x20x1.50)mm-2x1.29 =2.58RM

@ Rs. 0.513kg/RM = 1.32kg

Inter lock (39x20x1.50)mm - 2x1.29 =2.58RM

@ Rs. 0.574kg/RM = 1.48kg

Total = 4.49kg

@ Rs. 531.80/kg

Rs. 2,388.00

15/21.3 : Providing and fixing glazing to alluminum D,W

21.3.2 : With float glass panes 5mm thick.

Leaf – 3x0.60x1.25 = 2.25m²@ Rs. 1325.55/m²Rs. 2,982.00**C.O. Rs. 1,42,451.00**

B.F. Rs. 1,42,451.00

16/13.48A : Finishing wall with 100% premium acrylic emulsions
paint having Voc less than 50gm/lit.

13.48.A.1 : New Works 2 or more coats.

Qty. Same as item no 9/13.2.1 = 19.34m²

@ Rs. 154.45/m²

Rs. 2,987.00

Grand Total = Rs. 1,45,438.00

(Rupees One Lakh Forty Five thousand Four hundred and thirty eight) only.



Registrar i/c

Rabindranath tagore3 University, Hojai