

Detailed Project Report

Construction of Community Hall for Gaon Panchayat area of Kamrup Zila Parishad

Under Thirteenth Finance Commission
(General Performance Grant)

Estimated amount : Rs. 8.00 lakh

Name of Works : Model Estimate for Construction of Community Hall in Gaon Panchayat areas under Kamrup Zila Parishad.

Name of Scheme : Thirteenth Finance Commission (Grants –in Aid)

Estimated amount : Rs 8.00 lakh(eight lakh)only.

Forewords

The Govt. of India is giving major thrust in rural development for upliftment of the rural poor and eradication of poverty as well as to increase the GDP. Numerous schemes have been introduced through the PRI, Social welfare, Health and other development departments. For augmentation of the schemes the general public need to assemble for awareness programmes and other various social needs. Keeping in view the necessity of public assembly the central Govt. has provided sanction of Community Hall in each Gaon Panchayat area of Rs. 8.00 lakh(eight lakh) only for each Community Hall Under 13th Finance Commission/2011-12 general performance grant.

Accordingly, a Model Estimate has been prepared anticipating following services to be accomplished.

1. Public facility centre of various Govt. sponsored Schemes in need.
2. To facilitate various awareness programmes by the Govt.
3. General public assemblies in social need of the locality etc.

The Community Halls have been proposed to be a Assam type one having floor area 117.00 m² including a verandah of 1.8 m wide. Depending upon the site condition and local people's requirement any alteration will be accepted subject to approval of the revised drawing design by the Executive Engineer.

Chief Executive Officer,
Kamrup Zila Parishad.

Name of Works : Model Estimate for Construction of
Community Hall in Gaon Panchayat
areas under Kamrup Zila Parishad.

Name of Scheme : Thirteenth Finance Commission
(Grants –in Aid) for the year 2011-12.

Estimated amount : Rs 8.00 lakh(eight lakhs)only.

The estimate amounting to 8.00 lakhs (eight lakhs)only has been framed by the Executive Engineer, Kamrup Zila Parishad for construction of some Community Halls in the Gaon Panchayat areas of Kamrup Zila Parishad under the 13th Finance Commission (grants – in-aid).

In the estimate it has been proposed to construct a Assam type building of 117.00 m² area having a verandah of 1.80 mtr wide.

The scheme sites will be considered as per decision of the PRIs. The estimate has been prepared on the APWD schedule of rates for building for the year 2010-11.

All works will be carried out as per APWD norms current in the state.

Chief Executive Officer,
Kamrup Zila Parishad.

Name of Dist : **Kamrup**
Name of work : **Model estimate for Construction of Community Hall under XIII Finance Commission (General Performance Grant) for the year 2011-12.**
Estimated Amount : **Rs. 8,00,000.00 (Rupees Eight Lakh) only.**

ITEM OF WORK

Item No. 01 1.1	Earth work in excavation for foundation trenches of wall's retaining walls, footings of columns steps, septicia ect. Compl. as directed. 2.00 m below GL. a) Ordinary soil. Post = 16 x 1.20 x 1.20 x 1.00 = 23.04 m ³ Step = 1 x 4.88 x 1.20 x 0.15 = 0.88 m ³ <div style="text-align: right; border-top: 1px solid black; width: 100px; margin-left: auto;">Total = 23.92 m³</div> @ Rs. 64.67/ m ³	1547.00
Item No. 02 4.1.1	Providing Brick soling in foundation and under floor with stone/ best quality picket jhama bricks etc. as directed. a) Brick flat soling Post = 16 x 1.20 x 1.20 = 23.04 m ² P. Beam = 1 x 52.70 x 0.25 = 13.18 m ² Step = 1 x 4.88 x 1.00 = 4.88 m ² Floor = 1 x 8.475 x 12.35 = 104.67 m ² <div style="text-align: right; border-top: 1px solid black; width: 100px; margin-left: auto;">Total = 145.77 m²</div> @ Rs. 286.37/m ²	41744.00
Item No. 03 2.1.1	Plain cement concrete works with course aggregate of sizes 13 mm to 32 mm in foundation bed etc. compl. as directed In prop 1:3:6 Post = 16 x 1.00 x 1.00 x 0.10 = 1.60 m ³ Step = 1 x 4.88 x 1.00 x 0.075 = 0.366 m ³ P. Beam = 1 x 52.70 x 0.25 x 0.05 = 0.659 m ³ <div style="text-align: right; border-top: 1px solid black; width: 100px; margin-left: auto;">Total = 2.625 m³</div> @ Rs. 3733.63/m ³	9801.00
Item No. 04 18.1.1	Supplying, Fitting and fixing in position reinforcement bars confirming to relevant I.S. code for RCC works. etc as directed b) ISI approved (i) TATA/ SAIL Jali = 16 x 2 x 7 x 1.00 x 0.39 kg / RM = 0.87 Qtl. Post = 4 x 4 x 5.00 x 0.89 kg / RM = 0.71 Qtl. = 2 x 4 x 1.50 x 0.89 kg / RM = 0.11 Qtl. = 12 x 4 x 5.80 x 0.89kg / RM = 2.48 Qtl. P.Beam = 1 x 4 x 57.00 x 0.89kg/RM = 2.03 Qtl. Extra = 16 x 2 x 1.80 x 0.89 kg/RM = 0.51 Qtl. Lintel = 1 x 4 x 44.00 x 0.62 kg /RM = 1.09 Qtl. Chajja = 1 x 4 x 28.35 x 0.39 Kg/RM = 0.44 Qtl. = 1 x 190 x 0.75 x 0.62 kg/RM = 0.88 Qtl. P. Plate = 1 x 4 x 60.00 x 0.632 kg/RM = 1.49 Qtl. <div style="text-align: right; border-top: 1px solid black; width: 100px; margin-left: auto;">Total = 10.61 Qtl.</div> @ Rs. 4746.44 / Qtl.	50360.00

	<p>a) In Prop 1:2:4</p> $\text{Post} = 16 \times \frac{0.30+1.00}{2} \times \frac{0.30+1.00}{2} \times 0.30 = 2.028 \text{ m}^3$ $= 16 \times 1.125 \times 0.25 \times 0.25 = 1.125 \text{ m}^2$ $\text{P.beam} = 1 \times 56.70 \times 0.25 \times 0.30 = 4.253 \text{ m}^2$ <p style="text-align: right;">-----</p> $\text{Total} = 7.406 \text{ m}^2$ <p>@ Rs. 4734.15/m³</p> <p>B) In Super Structure</p> <p>ii) Column, pillars, post, strut suspended floor etc. lintel bressumer etc.</p> <p>In prop = 1:2:4</p> $\text{Post} = 12 \times 3.35 \times 0.18 \times 0.18 = 1.302 \text{ m}^3$ $= 4 \times 2.45 \times 0.18 \times 0.18 = 0.318 \text{ m}^3$ $= 2 \times 1.50 \times 0.15 \times 0.15 = 0.068 \text{ m}^3$ $\text{Lintel} = 1 \times 43.90 \times 0.15 \times 0.15 = 0.988 \text{ m}^3$ $\text{P.plate} = 1 \times 43.40 \times 0.15 \times 0.15 = 0.977 \text{ m}^3$ $\text{Bressumer} = 1 \times 16.50 \times 0.18 \times 0.20 = 0.594 \text{ m}^3$ $\text{Chajja} = 1 \times 28.34 \times 0.45 \times 0.075 = 0.956 \text{ m}^3$ <p style="text-align: right;">-----</p> $\text{Total} = 5.203 \text{ m}^3$ <p>@ Rs. 4929.24/m³</p>	35061.00
Item No. 07 4.1.4	<p>Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary and curing compl. as directed</p> <p>b) in Prop 1:4</p> $\text{Wall} = 1 \times 52.70 \times 0.60 \times 0.225 = 7.115 \text{ m}^3$ $\text{Step} = 1 \times 4.88 \times 1.00 \times 0.36 = 1.757 \text{ m}^3$ <p style="text-align: right;">-----</p> $\text{Total} = 8.872 \text{ m}^3$ <p>@ Rs.4632.29/ m³</p>	41098.00
Item No. 08 2.1.3	<p>Providing and laying 25 mm thick DPC with cement concrete in prop 1:1.5:3 with graded stone agg etc. as directed</p> $\text{Qty.} = 52.70 \times 0.225 = 11.86 \text{ m}^2$ <p>@Rs. 150.00/m²</p>	1779.00
Item No. 09 1.3	<p>Earth/sand filling in plinth in layers not more than 150 mm thick including necessary carriage, watering ramming etc. compl. as directed.</p> <p>c) With silt by Track carriage including loading and unloading</p> $\text{Qty.} = 1 \times 12.35 \times 8.475 \times 0.90 = 94.20 \text{ m}^3$ <p>@ Rs.322.75/m³</p>	30403.00
Item No.10 4.1.7	<p>112 mm thick 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed.</p> <p>a) In prop 1:4</p> $\text{Wall} = 1 \times 38.08 \times 3.35 = 127.57 \text{ m}^2$ $= 2 \times 2.10 \times 1.65 = 6.93 \text{ m}^2$ $\text{G.W.} = 2 \times 2 \times \frac{1.50+3.66}{2} = 10.98 \text{ m}^2$ <p>Deduct</p> $\text{Door} = 2 \times 2.10 \times 1.20 (-) = 5.04 \text{ m}^2$ $\text{Window} = 10 \times 1.50 \times 1.37(-) = 20.55 \text{ m}^2$	

	$V = 2 \times 1.20 \times 0.45 \quad (-) = 1.08 \text{ m}^2$ $= 10 \times 1.50 \times 0.45 \quad (-) = 6.75 \text{ m}^2$ <p style="text-align: center;">-----</p> $\text{Total} = 112.06 \text{ m}^2$ <p>@ Rs. 518.62/m³</p>	58117.00
Item No. 11 9.1.2	Providing wood work in frame of door, window clerestory window and other similar works etc. as directed a) With Sal wood. Door = 2 x 5.40 = 10.80 Rm Window = 10 x 8.47 = 84.70 Rm Ventilator = 2 x 3.75 = 7.50 Rm = 10 x 4.80 = 48.00 Rm <p style="text-align: center;">-----</p> $\text{Total} = 151.00 \times 0.10 \times 0.08 = 1.208 \text{ m}^3$ <p>@ Rs. 55200.04/m³</p>	66682.00
Item 12 9.3.1	Providing wood work in frame of false ceiling partition etc. sawn, wrought, framed hoisted etc. as directed. b) Hollock/Bonsum/Sundi Qty. = 3 x 12.80 = 38.40 Rm = 7 x 12.80 = 89.60 Rm = 12 x 7.32 = 87.84 Rm = 12 x 1.85 = 22.20 Rm = 38 x 0.35 = 13.30 Rm = 50 x 0.60 = 30.00 Rm <p style="text-align: center;">-----</p> $\text{Total} = 281.34 \text{ Rm} \times 0.075 \times 0.05 = 1.055 \text{ m}^3$ <p>@ Rs. 29812.40/m³</p>	31452.00
Item 13 9.4.1	Providing large board of size 200 mm x 20mm with first class local Hollock/Bonsum timber including fitting fixing etc. as directed. Qty. = 65.90 Rm @ Rs. 224.81/RM	14815.00
Item 14 9.9.2	Providing fitting fixing full paneled door window including oxidized MS butt hinges etc. as directed. B)1 st class local wood ii) 35 mm thick Door = 2 x 2.10 x 1.20 = 5.04 m ² Window = 10 x 1.30 x 0.45 = 6.75 m ² <p style="text-align: center;">-----</p> $\text{Total} = 11.79 \text{ m}^3$ <p>@ Rs. 1725.92/m²</p>	20349.00
Item No. 15 9.9.9	Providing fitting and fixing fully glazed clearstory window and fan light including fitting fixing 2 MS pivot hinge etc as directed. c)with 1 st class local wood ii) 35 mm thick Ventilator = 2 x 1.20 x 0.45 = 1.08 m ² = 10 x 1.50 x 0.45 = 6.75 m ² <p style="text-align: center;">-----</p> $\text{Total} = 7.83 \text{ m}^2$ <p>@ Rs. 984.50/m²</p>	7709.00

Item No. 25 6.2.3	<p>15 mm thick cement plaster in single coat on fair side of brick wall etc. as directed.</p> <p>b) In prop 1:4</p> <p>Qty. = 1 x 40.24 x 3.45 = 183.83 m² = 2 x 1.83 x 2.30 = 8.42 m² = 2 x 2 x $\frac{1.50+3.66}{2}$ = 10.98 m²</p> <p>Deduct= 2 x 1.20 x 1.90 (-) = 4.56 m² = 2 x 1.20 x 0.45 (-) = 1.08 m² = 10 x 1.50 x 1.37 (-) = 20.55 m² = 10 x 10.50 x 0.45(-) = 6.75 m²</p> <p style="text-align: center;">----- Total = 170.29 m²</p> <p>@ Rs. 110.21/m².....</p>	18768.00
Item No. 26 13.2.2	<p>(i) Providing with dry distemper approved brand and manufactured (two coats) etc. as directed.</p> <p>Qty. B.F. Item no 6.2.3 & 6.2.2 = 303.88 m² @ Rs. 62.42/m².....</p>	18968.00
Item No. 27 13.2.3	<p>(b) Finishing wall with water proofing cement paint of approved brand on new wall surface (two coats) etc. as directed.</p> <p>Qty. = B.F. Qty. of 6.2.2 = 133.59 m² 6.2.3 = 170.29 m²</p> <p style="text-align: center;">----- Total = 303.68 m²</p> <p>@ Rs. 40.83/m².....</p>	12399.00
Item No. 28 13.6.3	<p>Applying priming coat over new wood based surface etc. as directed.</p> <p>b) Wood primer (white)</p> <p>Door = 2 x 2.10 x 1.20 x 2 = 10.08 m² Window = 2 x 10 x 1.50 x 1.37 = 41.10 m² Ventilator = 10 x 1.50 x 0.50 x 2 = 15.00 m² = 2 x 2 x 1.20 x 0.50 = 2.40 m² Barge board = 1 x 65.90 x 0.20 = 13.18 m² Grill = 2 x BF Qty. of Item 10.1 = 56.76 m²</p> <p style="text-align: center;">----- Total = 112.77 m²</p> <p>@ Rs. 30.91/m².....</p>	7767.00
Item No. 29 13.6.5	<p>Painting two coats (excluding priming coats) on new wood based surface with enamel paint of approved brand etc. as directed.</p> <p>i) Surface over 100mm in girth</p> <p>b) High gloss</p> <p>Qty. = 251.29 m² @ Rs. 54.82/m².....</p>	13776.00
Item No. 30 19.2	<p>Providing plinth protection with brick flat laid in cement mortar 1:4 and finished with 15mm tick cement plaster in prop 1:2 etc. as directed.</p> <p>Qty. = 1 x 41.42 x 0.60 = 24.852 m² @ Rs. 458.06/m².....</p>	11384.00

Item No. 31 15.2.1	<p>Supplying fitting and fixing anodised aluminium fittings of approved make etc. as directed.</p> <p>a) Sliding door bolt b) 300mm x 16mm</p> <p>Qty. = 2 x 1 = 2 nos. @ Rs. 290.34/each.....</p> <p>b) Tower bolt i) 250mm x 12mm</p> <p>Qty. = 64 nos. @ Rs. 119.59/each.....</p> <p>c) Handle i) 15mm</p> <p>Qty. = 32 nos. @ Rs. 75.37/each.....</p>	<p>581.00</p> <p>7654.00</p> <p>2412.00</p>
Item No. 32 1.4	<p>Raising the low or toe side around the building with approved soil obtained from out side by truck etc. as directed.</p> <p>Qty. = 84.00 m³ @ Rs. 205.52/ m².....</p> <p>Loading & Unloading of soil Qty. = 84.00 m³ @ Rs. 86.00 / m³</p>	<p>17264.00</p> <p>7224.00</p>
	Total	Rs. 8,80,262.00
	Deduct 10% for contractor profit	Rs. 88026.00
	Total	Rs. 7,92,236.00
	Add 1% contingency	Rs. 7,922.00
	Grand total	Rs. 8,00,158.00

Say Rs. 8,00,000.00

(Rupees eight lakh) only.

Sd/-
J.E.,
Kamrup Zila Parishad.

Sd/-
Executive Engineer,
Kamrup Zila Parishad.

Sd/-
Chief Executive Officer,
Kamrup Zila Parishad.