GOVERNMENT OF WEST BENGAL  
PANCHAYATS & RURAL DEVELOPMENT DEPARTMENT  
9 TH FLOOR, JOINT ADMINISTRATIVE BUILDING  
BLOCK HC, PLOT 7, SECTOR – III  
SALT LAKE CITY, KOLKATA – 700 106

Memo No. 2413 -RD/O/NREGA/185-03/09

Dated: 03.05.17

From: Sudipta Pore, WBCS(Exe)  
     Dy. Secretary to Govt. of West Bengal

To: The District Magistrate, Uttar Dinajpur

Sub: Estimate for construction of AWC building under MGNREGA in convergence with different Departments
     Ref : His Memo No. 2519/MGNREGS Dated 15.03.17

Sir,
With reference to the captioned Memorandum, it is to state that State Government has decided to introduce a model estimate for AWC building of covered area 676 square feet having estimated cost of Rs.7 lakh for the sake of structural uniformity in convergence models of AWC with different departments.

It has been also resolved to utilize the fund of converging department within the estimated value and fund gap between proposed estimate and departmental commitment will be bridged from MGNREGA with maximum ceiling of Rs.5 lakh.

This order is binding for all type of convergence initiative in constructing AWC in convergence in the state.

The estimate with drawing is enclosed herewith for your ready reference.

With regards,

Enclo : As stated.

Yours faithfully,

(Sudipta Pore)  
Dy. Secretary to Govt. of West Bengal

Memo No. 2413/1(30)/RD/O/NREGA/185-03/09

Dated: 03.05.17

Copy forwarded for information and necessary action to

1) The Principal Secretary, GTA  
2-23) The District Magistrate, all except Uttar Dinajpur  
24) The AEO, Siliguri Mahakuma Parishad  
25) The Joint Secretary, Child Development Department  
26-30) The Dy. Secretary, NBD/SA/BCW/TD/MA/PU Department

Dy. Secretary to Government of West Bengal
TYPICAL PLAN & ESTIMATE OF ANGANWARI CENTRE

- W₁ - 5'3" x 4'0"
- D₁ - 6'6" x 4'0"
- D₁ & D₂ - 6'6" x 3'6"
- D₁ & D₂ - P.V.C. Door - 2 Nos.

COVERED AREA = 676 SFT. (SAY)
OPEN VERANDAH = 46 SFT. (SAY)
Detailed estimate of Anganwadi Centre

1. Earth work in excavation in foundation
   \[
   \frac{\text{ft}^3}{\text{wall}} = 1100.23 \text{ cft.}
   \]
   \[
   3 \text{ No. Col.} \times 3'-4'' \times 2'-6'' = 83.17 \text{ cft.}
   \]
   \[
   \text{Ver. 34'-2''} \times 2'-6'' \times 2'-6'' = 213.50 \text{ cft.}
   \]
   \[
   \text{Ramp. 17'-0''} \times 6'-0'' \times 1'-0'' = 102.00 \text{ cft.}
   \]
   \[
   \text{Total} = 1498.90 \text{ cft.}
   \]
   \[
   = 42.45 \text{ m}^3
   \]

2. Brick flat Soling to foundation:
   \[
   132'-2'' \times 3'-4'' = 440.09 \text{ sq ft.}
   \]
   \[
   3 \times 3'-4'' \times 3'-4'' = 33.37 \text{ sq ft.}
   \]
   \[
   34'-2'' \times 2'-6'' = 85.40 \text{ sq ft.}
   \]
   \[
   17'-0'' \times 6'-0'' = 102.00 \text{ sq ft.}
   \]
   \[
   \text{floor} 20'-0'' \times 20'-0'' = 400.00 \text{ sq ft.}
   \]
   \[
   \text{Ver. 14'-10''} \times 3'-0'' = 44.49 \text{ sq ft.}
   \]
   \[
   19'-10'' \times 3'-0'' = 59.49 \text{ sq ft.}
   \]
   \[
   8'-10'' \times 2'-6'' = 22.08 \text{ sq ft.}
   \]
   \[
   \text{Store 6'-0''} \times 5'-0'' = 30.00 \text{ sq ft.}
   \]
   \[
   \text{Kit 8'-0''} \times 6'-0'' = 48.00 \text{ sq ft.}
   \]
   \[
   \text{Toilet 2 x 4'-0''} \times 4'-0'' = 1296.82 \text{ sq ft.}
   \]
   \[
   = 120.52 \text{ m}^2
   \]

3. 6" thick (1:3:5) Cement Concreet with Jhama Khoa to:
   (a) foundation
   \[
   132'-2'' \times 3'-4'' = 440.09 \text{ sq ft.}
   \]
   \[
   3 \times 3'-4'' \times 3'-4'' = 33.27 \text{ sq ft.}
   \]
   \[
   34'-2'' \times 2'-6'' = 85.40 \text{ sq ft.}
   \]
   \[
   17'-0'' \times 6'-0'' = 102.00 \text{ sq ft.}
   \]
   \[
   = 660.76 \times 6'' \text{ thick} = 330.35 \text{ cft.}
   \]
   (b) Floor :
   \[
   20'-0'' \times 20'-0'' = 400.00 \text{ sq ft.}
   \]
   \[
   \text{Ver. 14'-10''} \times 3'-0'' = 44.49 \text{ sq ft.}
   \]
   \[
   19'-10'' \times 3'-0'' = 59.49 \text{ sq ft.}
   \]
   \[
   8'-10'' \times 2'-6'' = 22.08 \text{ sq ft.}
   \]
   \[
   \text{Store 6'-0''} \times 5'-0'' = 30.00 \text{ sq ft.}
   \]
   \[
   \text{Kit 8'-0''} \times 6'-0'' = 48.00 \text{ sq ft.}
   \]
   \[
   \text{Toilet 2 x 4'-0''} \times 4'-0'' = 636.06 \times 6'' \text{ thick} = 209.90 \text{ cft.}
   \]
   \[
   = 540.25 \text{ cft.}
   \]
   \[
   = 15.30 \text{ m}^3
   \]

4. 25 mm thick D.P.C. (1:1.5:3)
   \[
   132'-2'' \times 10'' = 109.69 \text{ sq ft.}
   \]
   \[
   3 \times 10'' \times 10'' = 2.06 \text{ sq ft.}
   \]
   \[
   1 \times 34'-2'' \times 10'' = 28.35 \text{ sq ft.}
   \]
   \[
   = 140.10 \text{ sq ft.} = 13.02 \text{ m}^3
   \]

5. Brick Work in foundation & plinth (1:8)
   \[
   132'-0'' \times 35'' \times 3'' = 96.34 \text{ cft.}
   \]
   \[
   132'-0'' \times 30'' \times 3'' = 82.60 \text{ cft.}
   \]
   \[
   132'-0'' \times 25'' \times 3'' = 68.72 \text{ cft.}
   \]
132'-0" x 20' x 3" = 54.84 cft.
132'-0" x 15' x 3" = 41.30 cft.
3 x 35' x 35' x 3" = 6.38 cft.
3 x 30' x 30' x 3" = 4.69 cft.
3 x 25' x 25' x 3" = 3.24 cft.
3 x 15' x 15' x 3" = 1.17 cft.

Total = 359.28 cft. = 10.18 m³

Upto D.P.C. Rat-trap bond:

132'-2" x 2'-0" = 264.32 sft.
34'-2" x 2'-0" = 68.33 sft.

Total = 332.65 sft. = 30.90 m²

D.P.C. to lintel level:

Rat trap bond:
132'-2" x 7'-9"

Ded: D₁ = 1 x 6'-6" x 4'-0" = 26.00 sft.
D₂ = 2 x 6'-6" x 3'-6" = 45.50 sft.
W₁ = 3 x 5'-3" x 4'-0" = 63.00 sft.

Total Deduction = (-) 134.5 sft.
889.74 sft. = 82.68 m²
113.58 m²

6. 3" R.C.C. Slab to Box Windows:
3 x 4'-6" x 1'-6" x 3" = 5.06 cft.
2 x 4'-6" x 1'-6" x 3" = 3.38 cft.

Box Shelf:
(Top) 2 x 3'-0" x 1'-6" x 3" = 2.25 cft.
(Bottom) 2 x 3'-0" x 1'-6" x 3" = 2.25 cft.
(Shelf) 4 x 3'-0" x 1'-6" x 3" = 4.50 cft.
(Lintel) 3 x 4'-6" x 10" x 6" = 5.60 cft.
2 x 4'-6" x 10" x 6" = 3.74 cft.
(Chajja) 3 x 4'-6" x 1'-6" x 3" = 5.06 cft.
2 x 4'-6" x 1'-6" x 3" = 3.38 cft.

Kitchen Shelf / Rack:
2 x 8'-0" x 1'-6" x 3" = 6.00 cft.
Room: 2 x 4'-0" x 1'-6" x 3" = 3.00 cft.
Lintel (Var.) 44'-2" x 10" x 10" = 30.42 cft.
Chajja 44'-2" x 1'-6" x 3" = 91.20 cft. = 2.58 m³

7. 250 mm thick Brick Work in (1.6) mortar in Rat trap bond
from lintel to roof level
132'-2" x 3'-0" = 396.30 sft.
22'-8" x 3'-0" = 67.98 sft.

Total = 464.28 sft. = 43.15 m²

8. 125 mm thick R.C. filler slab
to roof (1:1.5:3)
Roof: 676 sft. x 5" = 283.92 cft.
Beam: 2 x 21'-8" x 1'-3" x 1'-3" = 67.68 cft.

Total = 351.60 cft. = 9.96 m³

Total area of the filler portion:
3 x 18'-3" x 5'-0" = 270 sft.
9'-0" x 2'-0" = 18 sft.
3'-0" x 3'-0" = 9 sft.
4'-0" x 1'-0" = 4 sft.
3'-0" x 4'-0" = 12 sft.
6'-0" x 4'-0" = 24 sft.
6'-0" x 2'-0" = 12 sft.
\[\text{Total} = 349 \text{ sft.}\]

R.C. Concrete area = \((676 - 349)\) sft. = 327 sft.

Nos. of burnt clay roof tiles (Raniganj type)
of size \(14" \times 9" \times 1"\) i.e. \(349 \div \left(\frac{14 \times 9}{12 \times 12}\right) = 401\) Nos.

For two layers - \(401 \times 2 = 802\) No. x 0.07 = 56 cft. (say)

saving of concrete = 1.6 m³

9. 25 mm thick artificial stone
floor (1:2:4)
floor \(20'-0" \times 20'-0"\) = 400.00 sft.
Ver. \(14'-10" \times 3'-0"\) = 44.49 sft.
\(19'-10" \times 3'-0"\) = 59.49 sft.
\(8'-10" \times 2'-6"\) = 22.08 sft.
Stove \(6'-0" \times 5'-0"\) = 30.00 sft.
Kitchen \(8'-0" \times 6'-0"\) = 48.00 sft.
Toilet \(2 \times 4'-0" \times 4'-0"\) = 32.00 sft.
Dado / Skirting \(132'-2" \times 1'-3"\) = 166.20 sft.
\(44'-2" \times 1'-3"\) = 55.20 sft.
Box \(2 \times 3'-0" \times 1'-6"\) = 9.00 sft.
Shelf \(4 \times 3'-0" \times 1'-6"\) = 18.00 sft.
Kitchen Shelf \(2 \times 3'-0" \times 1'-6"\) = 24.00 sft.
Rack \(2 \times 4'-0" \times 1'-6"\) = 12.00 sft.
Ramp \(12'-0" \times 6'-0"\) = 72.00 sft.
\[\text{Total} = 991.46 \text{ sft.} = 92.14 \text{ m²}\]

10. Plaster (1:4) flush pointing
to inner/outer surface
\(2 \times 176'-4" \times 10'-0"\) = 3526.00 sft.
Ded: Door 25.00 sft.
Window 63.00 sft.
Door \(\pm 5.50\) sft.
\[\text{Total} = (-134.50) \text{ sft.} = 3391.50 \text{ sft.}\]

Plastering of roof surface
(intermediate area of filter
assuming 20% area)
of 636 sft.
\[\text{Total} = 127.20 \text{ sft.} = 3518.70 \text{ sft.} = 327.02 \text{ m²}\]

11. Plaster to plinth
height with neat finish
\(176'-4" \times 1'-6"\) = 264.50 sft.
\[\text{Total} = 24.58 \text{ m²}\]

**WAGE COMPONENT**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Qty.</th>
<th>USK</th>
<th>SSK</th>
<th>SK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Earth work in excavation in ordinary mixed soil lead 80'-0&quot;', lift 5'-0&quot;' @ 62 sft. / USK</td>
<td>1499 sft.</td>
<td>24</td>
<td></td>
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<tr>
<td>2</td>
<td>Brick flat soiling @ SSK-1, USK-4/34 m²</td>
<td>120.52 m²</td>
<td>14</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>C. Conc. (1:3:6) @ SK-2, USK-3 / 2.1 m³</td>
<td>15.3 m³</td>
<td>22</td>
<td></td>
<td>14.5</td>
</tr>
<tr>
<td>4</td>
<td>25 mm thick D.P.C. (1:1.5:3) @ SK-2, USK-3 / 18 m²</td>
<td>13.02 m³</td>
<td>2</td>
<td></td>
<td>1.5</td>
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</tbody>
</table>

Planning, Estimates and Design of Cost Effective Construction & Innovative Worksrelated Schemes
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Material Details</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brick flat soling 120.52 m²</td>
<td>14.23</td>
<td>7.34</td>
</tr>
<tr>
<td>2</td>
<td>C. Conc (1:3:6) 15.30 m³</td>
<td>0.27</td>
<td>0.14</td>
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<tr>
<td>3</td>
<td>25 mm thick D.P.C. - 13.02 m² (1:1.5:3)</td>
<td>3.36</td>
<td>0.56</td>
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<td>4</td>
<td>Brick Work (1:6) - 10.18 m³</td>
<td>10381</td>
<td>2.12</td>
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<td>5</td>
<td>R.C.C. (1:1.5:3) - 2.58 m²</td>
<td>3944</td>
<td>1.85</td>
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<td>6</td>
<td>Rat trap (1:4) - 43.15 m²</td>
<td>9.96 m³</td>
<td>8.36 m³</td>
</tr>
<tr>
<td>7</td>
<td>125 mm thick R.C.C. filler slab (1:1.5:3)</td>
<td>6.86</td>
<td>3.43</td>
</tr>
<tr>
<td>8</td>
<td>Artificial Stone / floor (1:2:4) - 92.14 m²</td>
<td>1.20</td>
<td>0.30</td>
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<tr>
<td>9</td>
<td>Flush painting / Plaster (1:4) - 327.07 m²</td>
<td>0.41</td>
<td>0.10</td>
</tr>
<tr>
<td>10</td>
<td>15 mm thick plaster to plinther (1:4) - 24.58 m³</td>
<td>22142 = 22150 Nos.</td>
<td>14.23</td>
</tr>
</tbody>
</table>

**COST OF MATERIAL**

1. Bricks 22150 Nos. @ Rs. 8000
2. Jhama Chips 14.50 m³ @ Rs. 1170.00 / m³
3. Stone 9.25 m³ @ Rs. 2000.00 / m³
4. Sand (Medium) 24 m³ @ Rs. 550.00 / m³
5. Cement 237 Bags @ Rs. 378.00 / Bag
6. Raniganj Tiles 802 Nos. @ Rs. 12.00 / Each
7. Hire charges for shuttering 87 m² @ Rs. 200.00 / m²

Rs. 1,77,200.00  
Rs. 16,965.00  
Rs. 18,500.00  
Rs. 13,200.00  
Rs. 89,566.00  
Rs. 9,624.00  
Rs. 17,400.00  
Rs. 3,42,475.00
<table>
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<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.S. clamp for fixing D/W frames in wall with C.C. (4:2:1) (40mm X 6mm X 250 length)</td>
<td>60</td>
<td>51.00</td>
<td>3060.00</td>
</tr>
<tr>
<td>Panel shutters of door and window, as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings, 25mm. Thick shutters with 12mm. Thick penal. (other local wood)</td>
<td>11.005</td>
<td>Sq.Mt</td>
<td>1274.00</td>
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<tr>
<td>Suppling fitting, fixing of door &amp; window fitting a) Iron butt hinge (10cm X 50mm X 1.25mm)</td>
<td>54</td>
<td>Nos.</td>
<td>41.12</td>
</tr>
<tr>
<td>b) Iron socket bolt (10cm X 10 cm)</td>
<td>34</td>
<td>Nos.</td>
<td>39.17</td>
</tr>
<tr>
<td>c) Hasp bolt (250 cm long)</td>
<td>8</td>
<td>Nos.</td>
<td>72.2</td>
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<tr>
<td>d) Anodised Al. Dyle handle (100 X 10mm)</td>
<td>20</td>
<td>Nos.</td>
<td>30.28</td>
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<tr>
<td>e) Window ring (7.5 cm) P-209R-59 (J)</td>
<td>257.6</td>
<td>Kg</td>
<td>65.26</td>
</tr>
<tr>
<td>M.S. ornamental grill of approved design for windows including fitting fixing complete. Above 16 Kg/59</td>
<td>223.13</td>
<td>Sq.Mt</td>
<td>42.64</td>
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<tr>
<td>White washing 3 coats to inside the building</td>
<td>170.5</td>
<td>Sq.Mt</td>
<td>30.43</td>
</tr>
<tr>
<td>Decorative cement based paint to out side the building after preparing the surface (two coats)</td>
<td>72</td>
<td>Sq.Mt</td>
<td>24.87</td>
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<tr>
<td>Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc. (two coats)</td>
<td>30</td>
<td>Sq.Mt</td>
<td>61.96</td>
</tr>
<tr>
<td>Priming one coat on steel or other metal surface synthetic oil bound primer of approved quality including smoothing surfaces by sand papering</td>
<td>13</td>
<td>Sq.Mt</td>
<td>58.03</td>
</tr>
<tr>
<td>Painting with best quality synthetic enamel paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc. on the surface, if necessary. On timber or plastered surface; With other than hi-gloss of approved quality. Two coats (with any shade except white)</td>
<td>17</td>
<td>Sq.Mt</td>
<td>162.00</td>
</tr>
<tr>
<td>Paint of approved make and brand including smoothing surface by sand papering etc. Including using of approved putty etc. on the surface, if necessary. On steel or other metal surface; with other than hi-gloss of approved quality. Two coats (with any shade except white)</td>
<td>6</td>
<td>Mt.</td>
<td>60.00</td>
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<tr>
<td>Suppling, fitting &amp; fixing UPVC pipes A-Type and fittings conforming to 15:13592-1992 with all necessary clamps nails. Including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary (Valamid/Brumen M-Seal etc) complete. 75mm. dia.</td>
<td>2</td>
<td>Nos.</td>
<td>3000.00</td>
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<td>Supply &amp; fixing, Fixing of PVC doors to toilet and Urinal (Including PVC frame)</td>
<td>5</td>
<td>Nos.</td>
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<td>Supply &amp; fixing, Fixing of S.W Soil pipe. (Including all fittings)</td>
<td>1</td>
<td>Nos.</td>
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<td>Suppling, fitting and fixing cast iron &quot;P&quot; trap</td>
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<td>Nos.</td>
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<td>Water closet Indian Pattern</td>
<td>3</td>
<td>Nos.</td>
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<tr>
<td>Suppling, fitting and fixing cast iron pit cover</td>
<td>1.5</td>
<td>Cu. Mt</td>
<td>900.00</td>
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<td>Brick Khosa for soak well</td>
<td>L.S.</td>
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<td>Nail, Palstic sheet, etc.</td>
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<td>Supplying, fitting and fixing smoke less Chullah</td>
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<td>Display Borad</td>
<td>117</td>
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<td>Skilled Labour cost</td>
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<td>Semi-Skilled cost</td>
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<td>Wage Cost</td>
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<td>176.00</td>
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<td>Provision for Water supply &amp; Electrification</td>
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<td>Water Supply (10% of Total Material Cost) of 458630.00</td>
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<td>Electrification (15% of Total Material Cost) of 458630.00</td>
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<td>62000.00</td>
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<td>Vegetative fencing, child friendly oil painting &amp; amenities including furnitures etc.</td>
<td></td>
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<td>699392.00</td>
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<tr>
<td>Grand Total</td>
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<td>699392.00</td>
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Note: Wage rate to be modified as per new/latest notification.