

## Costruction of Science Lab/ Multipurpose Hall (36 x 26)

| Ground Floor            |  |    |   |      |             |      |      |                |            |                             | DETAIL MEASUREMENT SHEET |  |  |
|-------------------------|--|----|---|------|-------------|------|------|----------------|------------|-----------------------------|--------------------------|--|--|
| S. No                   | Description  | No |   |      | MEASUREMENT |      |      | QTY            | UNIT       | REMARKS                     |                          |  |  |
|                         |  |    |   |      | L           | B    | H/D  |                |            |                             |                          |  |  |
| <b>CIVIL WORKS</b>      |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | Excavation in foundation of buildings and bridges,including layout, dressing, refilling around structures with,excavated earth, watering & ramming lead upto 100 ft.,(30m) & lift upto 5 ft. (1.5m)  |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>WALL FOUNDATION</b>  |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>H/W</b>              |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | Longwall   | 2  | x | 1.0  | 40.000      | 3.00 | 3.00 | 720.00         | Cft        | L/W                         |                          |  |  |
|                         | Longwalll entrance   | 1  | x | 1.0  | 10.000      | 2.50 | 2.50 | 62.50          | Cft        | L/W                         |                          |  |  |
|                         | Column footing   | 10 | x | 1.0  | 4.000       | 4.00 | 3.00 | 480.00         |            |                             |                          |  |  |
| <b>V/W</b>              |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | shortwall  | 2  | x | 1.0  | 28.000      | 3.00 | 3.00 | 504.00         | Cft        | S/W                         |                          |  |  |
|                         | Shortwall entrance   | 2  | x | 1.0  | 10.000      | 2.50 | 2.50 | 125.00         | Cft        | S/W                         |                          |  |  |
| <b>TOTAL QUANTITY</b>   |  |    |   |      |             |      |      | <b>1891.50</b> | <b>CFT</b> |                             |                          |  |  |
|                         | Providing and laying plain hand mixed 1 : 4 : 8 cement concrete using sand approved source and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation and plinth including leveling, compacting & curing.   |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>WALL FOUNDATION</b>  |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>H/W</b>              |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | Longwall   | 2  | x | 1.0  | 40.000      | 3.00 | 0.25 | 60.00          | Cft        | L/W                         |                          |  |  |
|                         | Longwalll entrance   | 1  |   | 1.0  | 10.000      | 2.50 | 0.25 | 6.25           | Cft        | L/W                         |                          |  |  |
| <b>V/W</b>              |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | shortwall  | 2  |   | 1.0  | 28.000      | 3.00 | 0.25 | 42.00          | Cft        | S/W                         |                          |  |  |
|                         | Shortwall entrance   | 2  |   | 1.0  | 10.000      | 2.50 | 0.25 | 12.50          | Cft        | S/W                         |                          |  |  |
| <b>TOTAL QUANTITY</b>   |  |    |   |      |             |      |      | <b>120.75</b>  | <b>CFT</b> |                             |                          |  |  |
|                         | Providing and febricating and laying Tor steel grade 60 having yeild strength equal to 60000 psi reinforcement for all kind of RCC work in foundation , plinth and ground floor including the cost of straightening , removal of rust , cutting bending , binding wastage and providing such overlap as are not shown on the drawings , the cost of buinding wire and precast 1:2:4 cement concrete spacer block or MS chairs for binding and holding the reainforcement in position is inclusive up to 5m (14.6 ft) |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>Steel In Footing</b> |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>H/W</b>              |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | Longwall   | 2  | x | 8.0  | 40.000      |      | 0.30 | 192.00         | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Distribution Bar 6" C/C  | 2  | x | 88.0 | 8.000       |      | 0.17 | 239.36         | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Column footing   | 10 |   | 2.0  | 16.000      |      | 0.30 | 96.00          | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Longwalll entrance   | 1  | x | 8.0  | 13.000      |      | 0.30 | 31.20          | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Distribution Bar 6" C/C  | 1  | x | 28.0 | 8.000       |      | 0.17 | 38.08          | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
| <b>V/W</b>              |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | shortwall  | 2  | x | 8.0  | 30.000      |      | 0.30 | 144.00         | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Distribution Bar 6" C/C  | 2  | x | 64.0 | 8.000       |      | 0.17 | 174.08         | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Shortwall entrance   | 2  | x | 8.0  | 13.000      |      | 0.30 | 62.40          | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
|                         | Distribution Bar 6" C/C  | 2  | x | 28.0 | 8.000       |      | 0.17 | 76.16          | Kg         | #4 bars (diameter ½ inch)   |                          |  |  |
| <b>Steel In Columns</b> |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
| <b>Cloumn (C-1)</b>     |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | Main Bars  | 10 | x | 8.0  | 18.000      |      | 0.48 | 684.00         | Kg         | #6 bars (diameter ½ inch)   |                          |  |  |
|                         | Ring Bars  | 10 | x | 25.0 | 5.000       |      | 0.17 | 212.50         | Kg         | #3 bars (diameter 3/8 inch) |                          |  |  |
|                         | Ring Bars  | 10 | x | 25.0 | 4.000       |      | 0.17 | 170.00         | Kg         | #3 bars (diameter 3/8 inch) |                          |  |  |
| <b>Cloumn (C-2)</b>     |  |    |   |      |             |      |      |                |            |                             |                          |  |  |
|                         | Main Bars  | 2  | x | 6.0  | 10.000      |      | 0.48 | 57.00          | Kg         | #5 bars (diameter ½ inch)   |                          |  |  |
|                         | Ring Bars  | 2  | x | 4.0  | 3.500       |      | 0.17 | 4.76           | Kg         | #3 bars (diameter ½ inch)   |                          |  |  |
| <b>Total</b>            |  |    |   |      |             |      |      | <b>2181.54</b> | <b>Kg</b>  |                             |                          |  |  |

| Costruction of Science Lab/ Multipurpose Hall (36 x 26) |   |    |   |                          |             |       |               |            |      |                             |
|---|---|----|---|--------------------------|-------------|-------|---------------|------------|------|-----------------------------|
| Ground Floor  |   |    |   | DETAIL MEASUREMENT SHEET |             |       |               |            |      |                             |
| S. No   | Description   | No |   |                          | MEASUREMENT |       |               | QTY        | UNIT | REMARKS                     |
|   |   |    |   |                          | L           | B     | H/D           |            |      |                             |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b>                 |   |    |   |                          |             |       | <b>2.18</b>   | <b>TON</b> |      |                             |
|   | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in sills and Bed Plate including formwork and its removal, compacting and curing   |    |   |                          |             |       |               |            |      |                             |
| <b>IN FOUNDATION</b>                                    |   |    |   |                          |             |       |               |            |      |                             |
| <b>H/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | Longwall  | 2  | x | 1.0                      | 40.000      | 3.00  | 0.75          | 180.00     | Cft  | L/W                         |
|   | Longwall entrance   | 1  | x | 1.0                      | 10.000      | 3.00  | 0.75          | 22.50      | Cft  | L/W                         |
| <b>V/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | shortwall   | 2  | x | 1.0                      | 28.000      | 3.00  | 0.75          | 126.00     | Cft  | L/W                         |
|   | Shortwall entrance  | 2  | x | 1.0                      | 10.000      | 3.00  | 0.75          | 45.00      | Cft  | L/W                         |
| <b>TOTAL QUANTITY</b>                                   |   |    |   |                          |             |       | <b>373.50</b> | <b>Cft</b> |      |                             |
|   | Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing with 1:3   |    |   |                          |             |       |               |            |      |                             |
| <b>WALL FOUNDATION</b>                                  |   |    |   |                          |             |       |               |            |      |                             |
| <b>1st step</b>   |   |    |   |                          |             |       |               |            |      |                             |
| <b>H/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | Longwall  | 2  | x | 1.0                      | 40.000      | 2.500 | 1.50          | 300.00     | Cft  | L/W                         |
|   | Longwall entrance   | 1  | x | 1.0                      | 10.000      | 2.500 | 1.50          | 37.50      | Cft  | L/W                         |
| <b>V/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | shortwall   | 2  | x | 1.0                      | 28.000      | 2.500 | 1.50          | 210.00     | Cft  | S/W                         |
|   | Shortwall entrance  | 2  | x | 1.0                      | 10.000      | 2.500 | 1.50          | 75.00      | Cft  | S/W                         |
| <b>2ND STEP</b>   |   |    |   |                          |             |       | <b>0.00</b>   |            |      |                             |
| <b>H/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | Longwall  | 2  | x | 1.0                      | 40.000      | 2.00  | 1.00          | 160.00     | Cft  | L/W                         |
|   | Longwall entrance   | 1  | x | 1.0                      | 10.000      | 2.00  | 1.00          | 20.00      | Cft  | L/W                         |
| <b>V/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | shortwall   | 2  | x | 1.0                      | 28.000      | 2.00  | 1.00          | 112.00     | Cft  | S/W                         |
|   | Shortwall entrance  | 2  | x | 1.0                      | 10.000      | 2.00  | 1.00          | 40.00      | Cft  | S/W                         |
| <b>DEDUCTION OF COLUMN</b>                              |   |    |   |                          |             |       |               |            |      |                             |
|   | Cloumn (C-1)  | 12 | x | 1.0                      | 3.750       | 1.083 | 1.08          | -52.81     | Cft  |                             |
|   | Cloumn (C-2)  | 2  | x | 1.0                      | 3.750       | 0.750 | 0.75          | -4.22      | Cft  |                             |
| <b>TOTAL QUANTITY</b>                                   |   |    |   |                          |             |       | <b>897.47</b> | <b>CFT</b> |      |                             |
|   | Providing and laying 1 : 2 : 4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) & down gauge in foundation including leveling, compacting and curing.   |    |   |                          |             |       |               |            |      |                             |
| <b>Column Foundation</b>                                |   |    |   |                          |             |       |               |            |      |                             |
|   | Cloumn (C-1)  | 10 | x | 1.0                      | 1.083       | 1.500 | 20.000        | 325.000    | Cft  |                             |
|   | Cloumn (C-2)  | 2  | x | 2.0                      | 0.750       | 0.750 | 13.000        | 29.250     | Cft  |                             |
| <b>TOTAL QUANTITY</b>                                   |   |    |   |                          |             |       | <b>354.25</b> | <b>Cft</b> |      |                             |
|   | Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height |    |   |                          |             |       |               |            |      |                             |
| <b>PLINTH BAND STEEL</b>                                |   |    |   |                          |             |       |               |            |      |                             |
| <b>H/W</b>  |   |    |   |                          |             |       |               |            |      |                             |
|   | Longwall  | 2  | x | 8                        | 41.500      |       | 0.30          | 199.20     | Kg   | #4 bars (diameter 1/2 inch) |
|   | Distribution Bar 6" C/C   | 2  | x | 56                       | 6.000       |       | 0.17          | 114.92     | Kg   | #3 bars (diameter 3/8 inch) |
|   | Beam for portion  | 1  | x | 8                        | 26.000      |       | 0.30          | 62.40      | Kg   | #4 bars (diameter 1/2 inch) |
|   | Distribution Bar 6" C/C   | 1  | x | 36                       | 6.000       |       | 0.17          | 36.38      | Kg   | #3 bars (diameter 3/8 inch) |
|   | Longwalll entrance  | 1  | x | 8                        | 11.500      |       | 0.30          | 27.60      | Kg   | #4 bars (diameter 1/2 inch) |

## Costruction of Science Lab/ Multipurpose Hall (36 x 26)

| Ground Floor |   |    |   |      |             |       |       |         |                | DETAIL MEASUREMENT SHEET    |  |
|--------------|---|----|---|------|-------------|-------|-------|---------|----------------|-----------------------------|--|
| S. No        | Description   | No |   |      | MEASUREMENT |       |       | QTY     | UNIT           | REMARKS                     |  |
|              |   |    |   |      | L           | B     | H/D   |         |                |                             |  |
|              | Distribution Bar 6" C/C   | 1  | x | 16   | 6.000       |       | 0.17  | 16.66   | Kg             | #3 bars (diameter 3/8 inch) |  |
|              | V/W   |    |   |      |             |       |       |         |                |                             |  |
|              | shortwall   | 2  | x | 8    | 29.500      |       | 0.30  | 141.60  | Kg             | #4 bars (diameter 1/2 inch) |  |
|              | Distribution Bar 6" C/C   | 2  | x | 40   | 6.000       |       | 0.17  | 82.28   | Kg             | #3 bars (diameter 3/8 inch) |  |
|              | Shortwall entrance  | 2  | x | 8    | 11.500      |       | 0.30  | 55.20   | Kg             | #4 bars (diameter 1/2 inch) |  |
|              | Distribution Bar 6" C/C   | 2  | x | 16   | 6.000       |       | 0.17  | 33.32   | Kg             | #3 bars (diameter 3/8 inch) |  |
|              |   |    |   |      |             |       |       | 769.56  | Kg             |                             |  |
|              | <b>TOTAL QUANTITY IN TON (LBS/2240)</b>   |    |   |      |             |       |       |         | <b>0.77</b>    | <b>Ton</b>                  |  |
|              | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.  |    |   |      |             |       |       |         |                |                             |  |
|              | <b>PLINTH BEAM</b>  |    |   |      |             |       |       |         |                |                             |  |
|              | H/W   |    |   |      |             |       |       |         |                |                             |  |
|              | Longwall  | 2  | x | 1    | 40.000      | 2.00  | 0.75  | 120.00  | CFT            |                             |  |
|              | Beam for portion  | 1  | x | 1    | 26.000      | 2.00  | 0.75  | 39.00   | CFT            |                             |  |
|              | Longwall entrance   | 1  | x | 1    | 10.000      | 2.00  | 0.75  | 15.00   | CFT            |                             |  |
|              | V/W   |    |   |      |             |       |       |         |                |                             |  |
|              | shortwall   | 2  | x | 1    | 28.000      | 2.00  | 0.75  | 84.00   | CFT            |                             |  |
|              | Shortwall entrance  | 2  | x | 1    | 10.000      | 2.00  | 0.75  | 30.00   | CFT            |                             |  |
|              | <b>TOTAL QUANTITY</b>   |    |   |      |             |       |       |         | <b>288.00</b>  | <b>CFT</b>                  |  |
|              | Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing with 1:3   |    |   |      |             |       |       |         |                |                             |  |
|              | <b>below door band + above door band</b>  |    |   |      |             |       |       |         |                |                             |  |
|              | H/W   |    |   |      |             |       |       |         |                |                             |  |
|              | Longwall  | 2  | x | 1.0  | 40.000      | 1.08  | 12.00 | 1040.00 | Cft            |                             |  |
|              | Paraphet wall   | 2  | x | 1.0  | 36.000      | 0.75  | 3.00  | 162.00  |                |                             |  |
|              | V/W   |    |   |      |             |       |       |         |                |                             |  |
|              | shortwall   | 2  | x | 1.0  | 26.875      | 1.08  | 12.00 | 698.75  | Cft            |                             |  |
|              | Paraphet wall   | 2  | x | 1.0  | 26.000      | 0.75  | 3.00  | 117.00  |                |                             |  |
|              | <b>Sub Total A</b>  |    |   |      |             |       |       |         | <b>2017.75</b> | <b>Cft</b>                  |  |
|              | <b>DEDUCTION</b>  |    |   |      |             |       |       |         |                |                             |  |
|              | Cloumn (C-1)  | 12 | x | 1.0  | 12.000      | 1.083 | 1.08  | 169.00  | Cft            |                             |  |
|              | Cloumn (C-2)  | 2  | x | 1.0  | 12.000      | 0.750 | 0.75  | 13.50   | Cft            |                             |  |
|              | <b>OPENINGS &amp; DOOR /WINDOWS</b>   |    |   |      |             |       |       |         |                |                             |  |
|              | <b>DOOR</b>   |    |   |      |             |       |       |         |                |                             |  |
|              | D1  | 1  | x | 1.0  | 5.000       | 1.083 | 8.00  | 43.33   | Cft            |                             |  |
|              | <b>WINDOWS</b>  |    |   |      |             |       |       |         |                |                             |  |
|              | W1  | 1  | x | 4.0  | 6.000       | 1.083 | 5.00  | 130.00  | Cft            |                             |  |
|              | V1  | 1  | x | 4.0  | 2.000       | 1.083 | 6.00  | 52.00   | Cft            |                             |  |
|              | <b>TOTAL QUANTITY</b>   |    |   |      |             |       |       |         | <b>1609.92</b> | <b>CFT</b>                  |  |
|              | Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height |    |   |      |             |       |       |         |                |                             |  |
|              | <b>DOOR BAND STEEL</b>  |    |   |      |             |       |       |         |                |                             |  |
|              | H/W   |    |   |      |             |       |       |         |                |                             |  |
|              | Longwall  | 2  | x | 6.0  | 40.750      |       | 0.30  | 146.70  | Kg             | #4 bars (diameter 1/2 inch) |  |
|              | Distribution Bar 6" C/C   | 2  | x | 82.5 | 4.167       |       | 0.17  | 116.88  | Kg             | #3 bars (diameter 3/8 inch) |  |
|              | V/W   |    |   |      |             |       |       |         |                |                             |  |
|              | shortwall   | 2  | x | 4.0  | 28.750      |       | 0.30  | 69.00   | Kg             | #4 bars (diameter 1/2 inch) |  |
|              | Distribution Bar 6" C/C   | 2  | x | 58.5 | 4.167       |       | 0.17  | 82.88   | Kg             | #3 bars (diameter 3/8 inch) |  |
|              | <b>Total</b>  |    |   |      |             |       |       |         | <b>415.45</b>  | <b>Kg</b>                   |  |
|              | <b>TOTAL QUANTITY IN TON (LBS/2240)</b>   |    |   |      |             |       |       |         | <b>0.42</b>    | <b>Ton</b>                  |  |

| Costruction of Science Lab/ Multipupose Hall (36 x 26) |  |    |   |                         |             |       |              |                |      |         |
|--|--|----|---|-------------------------|-------------|-------|--------------|----------------|------|---------|
| Ground Floor   |  |    |   | DETAIL MEASURMENT SHEET |             |       |              |                |      |         |
| S. No  | Description  | No |   |                         | MEASUREMENT |       |              | QTY            | UNIT | REMARKS |
|  |  |    |   |                         | L           | B     | H/D          |                |      |         |
|  | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement. |    |   |                         |             |       |              |                |      |         |
|  | <b>DOOR BEND</b>   |    |   |                         |             |       |              |                |      |         |
|  | <b>H/W</b>   |    |   |                         |             |       |              |                |      |         |
|  | Longwall   | 2  | x | 1.0                     | 40.000      | 1.08  | 0.75         | 65.00          | Cft  |         |
|  | <b>V/W</b>   |    |   |                         |             |       |              |                |      |         |
|  | shortwall  | 2  | x | 1.0                     | 26.875      | 1.08  | 0.75         | 43.67          | Cft  |         |
|  |  |    |   |                         |             |       | <b>Total</b> | <b>108.67</b>  | Cft  |         |
|  | Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft. (15m)  |    |   |                         |             |       |              |                |      |         |
|  | Hall   | 1  | x | 1.0                     | 36.000      | 26.00 | 2.50         | 2340.00        | Cft  |         |
|  | Enterance  | 1  | x | 1.0                     | 12.000      | 10.00 | 2.50         | 300.00         | Cft  |         |
|  | <b>TOTAL QUANTITY</b>  |    |   |                         |             |       |              | <b>2640.00</b> | Cft  |         |

| Costruction of Science Lab/ Multipurpose Hall (36 x 26) |   |    |   |                          |             |       |      |                |            |                             |
|---|---|----|---|--------------------------|-------------|-------|------|----------------|------------|-----------------------------|
| Ground Floor  |   |    |   | DETAIL MEASUREMENT SHEET |             |       |      |                |            |                             |
| S. No   | Description   | No |   |                          | MEASUREMENT |       |      | QTY            | UNIT       | REMARKS                     |
|   |   |    |   |                          | L           | B     | H/D  |                |            |                             |
|   | Providing and laying plain hand mixed 1 : 4 : 8 cement concrete using sand approved source and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation and plinth including leveling, compacting & curing.  |    |   |                          |             |       |      |                |            |                             |
|   | Hall  | 1  | x | 1.0                      | 36.000      | 26.00 | 0.33 | 312.00         | Cft        |                             |
|   | Entrance  | 1  | x | 1.0                      | 12.000      | 10.00 | 0.33 | 40.00          | Cft        |                             |
|   | <b>TOTAL QUANTITY</b>   |    |   |                          |             |       |      | <b>352.00</b>  | <b>CFT</b> |                             |
|   | Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height |    |   |                          |             |       |      |                |            |                             |
|   | <b>Roof Band Steel</b>  |    |   |                          |             |       |      |                |            |                             |
|   | <b>H/W</b>  |    |   |                          |             |       |      |                |            |                             |
|   | Longwall  | 2  | x | 8                        | 40.000      |       | 0.48 | 304.00         | Kg         | #4 bars (diameter ½ inch)   |
|   | Distribution Bar 6" C/C   | 2  | x | 83                       | 6.678       |       | 0.17 | 187.31         | Kg         | #3 bars (diameter 3/8 inch) |
|   | central beams   | 2  | x | 10                       | 28.000      |       | 0.48 | 266.00         | Kg         | #4 bars (diameter ½ inch)   |
|   | Distribution Bar 6" C/C   | 1  | x | 3                        | 6.678       |       | 0.17 | 2.84           | Kg         | #3 bars (diameter 3/8 inch) |
|   | Longwall entrance   | 1  | x | 6                        | 10.000      |       | 0.30 | 18.00          | Kg         | #4 bars (diameter ½ inch)   |
|   | Distribution Bar 6" C/C   | 1  | x | 23                       | 6.678       |       | 0.17 | 25.54          | Kg         | #3 bars (diameter 3/8 inch) |
|   | <b>V/W</b>  |    |   |                          |             |       |      |                |            |                             |
|   | shortwall   | 2  | x | 8                        | 28.000      |       | 0.48 | 212.80         | Kg         | #4 bars (diameter ½ inch)   |
|   | Distribution Bar 6" C/C   | 2  | x | 57                       | 5.000       |       | 0.17 | 96.90          | Kg         | #3 bars (diameter 3/8 inch) |
|   | Conceal beam total lenth  | 2  | x | 6                        | 28.000      |       | 0.48 | 159.60         | Kg         | #4 bars (diameter ½ inch)   |
|   | Distribution Bar 6" C/C   | 2  | x | 57                       | 5.000       |       | 0.17 | 96.90          | Kg         | #3 bars (diameter 3/8 inch) |
|   | Shortwall entrance  | 2  | x | 6                        | 37.500      |       | 0.30 | 135.00         | Kg         | #4 bars (diameter ½ inch)   |
|   | Distribution Bar 6" C/C   | 2  | x | 76                       | 5.000       |       | 0.17 | 129.20         | Kg         | #3 bars (diameter 3/8 inch) |
|   | <b>Total</b>  |    |   |                          |             |       |      | <b>1634.09</b> | <b>Kg</b>  |                             |
|   | <b>TOTAL QUANTITY IN TON (LBS/2240)</b>   |    |   |                          |             |       |      | <b>1.63</b>    | <b>Ton</b> |                             |
|   | <b>ROOF SLAB</b>  |    |   |                          |             |       |      |                |            |                             |
|   | <b>Hall in three different portion at beam partion</b>  |    |   |                          |             |       |      |                |            |                             |
|   | Bottom long bar   | 3  | x | 63.3                     | 15.000      |       | 0.30 | 854.82         | Kg         | #4 bars (diameter ½ inch)   |
|   | Bottomshort b bar 6"@c/c  | 3  | x | 31.0                     | 31.160      |       | 0.30 | 869.36         | Kg         | #4 bars (diameter ½ inch)   |
|   | Top long bar  | 3  | x | 14.8                     | 5.000       |       | 0.30 | 66.82          | Kg         | #4 bars (diameter ½ inch)   |
|   | Top short b bar 6"@c/c  | 3  | x | 7.7                      | 10.387      |       | 0.30 | 71.67          | Kg         | #4 bars (diameter ½ inch)   |
|   | <b>Entrance</b>   |    |   |                          |             |       |      |                |            |                             |
|   | Bottom long bar   | 1  | x | 21.0                     | 12.000      |       | 0.30 | 75.60          | Kg         | #4 bars (diameter ½ inch)   |
|   | Bottomshort b bar 6"@c/c  | 1  | x | 25.0                     | 10.000      |       | 0.30 | 75.00          | Kg         | #4 bars (diameter ½ inch)   |
|   | Top long bar  | 1  | x | 5.4                      | 4.000       |       | 0.30 | 6.53           | Kg         | #4 bars (diameter ½ inch)   |
|   | Top short b bar 6"@c/c  | 1  | x | 6.3                      | 3.333       |       | 0.30 | 6.33           | Kg         | #4 bars (diameter ½ inch)   |
|   | <b>W.Shades</b>   |    |   |                          |             |       |      |                |            |                             |
|   | <b>W1</b>   |    |   |                          |             |       |      |                |            |                             |
|   | Bottom long bar   | 6  | x | 7.0                      | 6.000       |       | 0.30 | 75.60          | Kg         | #4 bars (diameter ½ inch)   |
|   | Bottomshort b bar 6"@c/c  | 6  | x | 13.0                     | 3.000       |       | 0.30 | 70.20          | Kg         | #4 bars (diameter ½ inch)   |
|   | <b>Total</b>  |    |   |                          |             |       |      | <b>2171.94</b> | <b>kg</b>  |                             |
|   | <b>TOTAL QUANTITY IN TON (LBS/2240)</b>   |    |   |                          |             |       |      | <b>2.17</b>    | <b>Ton</b> |                             |
|   | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.  |    |   |                          |             |       |      |                |            |                             |
|   | <b>ROOF BEND</b>  |    |   |                          |             |       |      |                |            |                             |
|   | <b>H/W</b>  |    |   |                          |             |       |      |                |            |                             |
|   | Longwall  | 2  | x | 1.0                      | 40.000      | 1.09  | 2.00 | 174.21         | Cft        |                             |
|   | central beam  | 2  | x | 1.0                      | 28.000      | 1.09  | 2.00 | 121.95         | Cft        |                             |
|   | Longwall entrance   | 1  | x | 1.0                      | 10.000      | 0.75  | 1.00 | 7.50           | Cft        |                             |
|   | <b>V/W</b>  | 0  | 0 | -                        | 0.000       | 1.09  | 2.00 | 0.00           | Cft        |                             |
|   | shortwall   | 2  | x | 1.0                      | 26.875      | 1.09  | 2.00 | 117.05         | Cft        |                             |
|   | Shortwall entrance  | 2  | x | 1.0                      | 10.000      | 0.75  | 1.00 | 15.00          | Cft        |                             |
|   | <b>Total</b>  |    |   |                          |             |       |      | <b>435.70</b>  | <b>Cft</b> |                             |

## Costruction of Science Lab/ Multipurpose Hall (36 x 26)

| Ground Floor |  |      |   |      |             |        |       |                    |                | DETAIL MEASUREMENT SHEET |  |  |
|--------------|--|------|---|------|-------------|--------|-------|--------------------|----------------|--------------------------|--|--|
| S. No        | Description  | No   |   |      | MEASUREMENT |        |       | QTY                | UNIT           | REMARKS                  |  |  |
|              |  |      |   |      | L           | B      | H/D   |                    |                |                          |  |  |
|              | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in slabs including formwork and its removal, compacting and curing Upto 6" (150 mm) thickness i) In basement, plinth and ground floor                       |      |   |      |             |        |       |                    |                |                          |  |  |
|              | Hall   | 1    | x | 1.0  | 36.000      | 26.000 | 0.50  | 468.00             | Cft            |                          |  |  |
|              | Entrance   | 1    | x | 1.0  | 12.000      | 12.000 | 0.50  | 72.00              | Cft            |                          |  |  |
|              | <b>Shade on Windows</b>  |      |   |      |             |        |       |                    |                |                          |  |  |
|              | W1   | 6    | x | 4.0  | 6           | 1.500  | 0.50  | 108.00             | Cft            |                          |  |  |
|              | <b>TOTAL QUANTITY</b>  |      |   |      |             |        |       | <b>648.00</b>      | <b>Cft</b>     |                          |  |  |
|              | Cement plaster using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of beams, in basement and ground floor including making edges, corners and curing. 1/2 inch (13mm) thick cement sand plaster 1:4   |      |   |      |             |        |       |                    |                |                          |  |  |
|              | Hall   | 1    | x | 1.0  | 36.000      | 26.00  |       | 936.00             | Sft            |                          |  |  |
|              | Entrance   | 1    | x | 1.0  | 12.000      | 10.00  |       | 120.00             | Sft            |                          |  |  |
|              | <b>TOTAL QUANTITY</b>  |      |   |      |             |        |       | <b>1056.00</b>     | <b>Sft</b>     |                          |  |  |
|              | 3/4 inch (19mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing. The mix ratio is 1:4 cement sand.   |      |   |      |             |        |       |                    |                |                          |  |  |
|              | <b>Interior Walls</b>  |      |   |      |             |        |       |                    |                |                          |  |  |
|              | Hall   | 2    | x | 1.0  | 36.000      |        | 14.00 | 1008.00            | Sft            |                          |  |  |
|              | Entrance   | 2    | x | 1.0  | 26.00       |        | 14.00 | 728.00             | Sft            |                          |  |  |
|              |  |      |   |      |             |        |       | <b>Sub Total A</b> | <b>1736.00</b> | <b>Sft</b>               |  |  |
|              | <b>OPENINGS &amp; DOOR /WINDOWS</b>  |      |   |      |             |        |       |                    |                |                          |  |  |
|              | <b>DOOR</b>  |      |   |      |             |        |       |                    |                |                          |  |  |
|              | D1   | 1    | x | 1.0  | 5.000       |        | 8.00  | 40.00              | Cft            |                          |  |  |
|              | <b>WINDOWS</b>   |      |   |      |             |        |       | 0.00               |                |                          |  |  |
|              | W1   | 1    | x | 4.0  | 6.000       |        | 5.00  | 120.00             | Cft            |                          |  |  |
|              | V1   | 1    | x | 4.0  | 2.000       |        | 6.00  | 48.00              |                |                          |  |  |
|              |  |      |   |      |             |        |       | <b>Sub Total B</b> | <b>208.00</b>  | <b>CFT</b>               |  |  |
|              | <b>TOTAL QUANTITY (A+B)</b>  |      |   |      |             |        |       | <b>1528.00</b>     | <b>CFT</b>     |                          |  |  |
|              | 3/4 inch (19mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing. Extra if false pointing is required with lime/surkhi or pigment on plastered surface of any description in any floor. |      |   |      |             |        |       |                    |                |                          |  |  |
|              | External walls including parapet wall  | 2    | x | 1.0  | 40.000      |        | 18.00 | 1440.00            |                |                          |  |  |
|              | "  | 2    | x | 1.0  | 28.000      |        | 18.00 | 1008.00            |                |                          |  |  |
|              | <b>TOTAL QUANTITY</b>  |      |   |      |             |        |       | <b>Sub Total A</b> | <b>2448.00</b> | <b>Cft</b>               |  |  |
|              | <b>OPENINGS &amp; DOOR /WINDOWS</b>  |      |   |      |             |        |       |                    |                |                          |  |  |
|              | <b>DOOR</b>  |      |   |      |             |        |       |                    |                |                          |  |  |
|              | D1   | 1    | x | 1.0  | 5.000       |        | 8.00  | 40.00              | Cft            |                          |  |  |
|              | <b>WINDOWS</b>   |      |   |      |             |        |       |                    |                |                          |  |  |
|              | W1   | 1    | x | 4.0  | 6.000       |        | 5.00  | 120.00             | Cft            |                          |  |  |
|              | W2   | 1    | x | -    | 6.000       |        | 8.00  | 0.00               | Cft            |                          |  |  |
|              | V1   | 1    | x | 4.0  | 2.000       |        | 6.00  | 48.00              |                |                          |  |  |
|              |  |      |   |      |             |        |       | <b>Sub Total B</b> | <b>208.00</b>  | <b>CFT</b>               |  |  |
|              | <b>TOTAL QUANTITY (A+B)</b>  |      |   |      |             |        |       | <b>2240.00</b>     | <b>CFT</b>     |                          |  |  |
|              | Providing and laying floor 1:2:4 reinforced cement concrete using crushed aggregate 3/4" (19mm) and ground floor including formwork, consolidation, finishing and curing but excluding the cost of reinforcement 3" (75 mm) nominal thick flooring                                 |      |   |      |             |        |       |                    |                |                          |  |  |
|              | Hall   | 1.00 | x | 1.00 | 36.00       | 26.00  | 0.50  | 468.00             | Cft            |                          |  |  |
|              | Entrance   | 1.00 | x | 1.00 | 12.00       | 10.00  | 0.50  | 60.00              | Cft            |                          |  |  |

| Costruction of Science Lab/ Multipupose Hall (36 x 26) |  |      |   |                         |        |       |                |            |         |
|--|--|------|---|-------------------------|--------|-------|----------------|------------|---------|
| Ground Floor   |  |      |   | DETAIL MEASURMENT SHEET |        |       |                |            |         |
| S. No  | Description  | No   |   | MEASUREMENT             |        |       | QTY            | UNIT       | REMARKS |
|  |  |      |   | L                       | B      | H/D   |                |            |         |
| <b>TOTAL QUANTITY</b>                                  |  |      |   |                         |        |       | <b>528.00</b>  | <b>CFT</b> |         |
|  | Providing and laying Conglomerate flooring (two coat work) having 1/2" (9mm) thick wearing surface comprising 1 part of cement & 2 parts of stone chips passing 3/16" sieve, over 1:3:6 concrete base using crushed aggregate laid in panels or approved pattern including formwork, curing, and surface finishing as approved by Engineer Incharge. mortar.   |      |   |                         |        |       |                |            |         |
|  | Exteral plinth protection  | 2    | x | 1.0                     | 40     | 2.50  | 1.00           | 200.00     |         |
|  | "  | 2    | x | 1.0                     | 28     | 2.50  | 1.00           | 140.00     |         |
| <b>TOTAL QUANTITY</b>                                  |  |      |   |                         |        |       | <b>340.00</b>  | <b>SFT</b> |         |
|  | Providing and laying super white 12"x12" marble tiles floor fine dressed on surface without winding in ground floor and laid over 1" (25mm) thick cement sand mortar 1:2 setting tiles with portland cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing including the cost of cement mortar. 1" (25 mm) thick marble tiles floor  |      |   |                         |        |       |                |            |         |
|  | Hall   | 1.00 | x | 1.00                    | 36.00  | 26.00 |                | 936.00     | sft     |
|  | Entrance   | 1.00 | x | 1.00                    | 12.00  | 10.00 |                | 120.00     | sft     |
|  | stair  | 3.00 | x | 3.00                    | 3.00   | 1.00  |                | 27.00      |         |
| <b>Total</b>   |  |      |   |                         |        |       | <b>1083.00</b> | <b>Sft</b> |         |
|  | Providing and fixing moulded steel door frame of approved profile, manufactured from zinc-coated mild steel sheets 16 gauge made by Shahah Industries or equivalent standard conforming to B.S.S.1245, treated with special primer base paint all round, fitted with six fixing lugs, three steel hinges for fixing door shutters standard lock-strike plate, one sliding holt eye, and three rubber buffers, including cutting holes and making good damages to walls and filling the door frame cavity with lean cement mortar 1:4 as directed by the Engineer |      |   |                         |        |       |                |            |         |
| <b>DOOR</b>  |  |      |   |                         |        |       |                |            |         |
|  | D1   | 1    | x | 1.0                     | 57.000 |       |                | 57.00      | Rft     |
| <b>TOTAL QUANTITY</b>                                  |  |      |   |                         |        |       | <b>57.00</b>   | <b>Rft</b> |         |
|  | Providing and fixing 1.5" (38 mm) thick fully panelled First class deodar wood shutter fixed with ply/ hard board/ chip board/ Cement Fibre sheet and with approved nickle plated hinges and tower bolts   |      |   |                         |        |       |                |            |         |
| <b>DOOR</b>  |  |      |   |                         |        |       |                |            |         |
|  | D1   | 1    | x | 1.0                     | 5.000  | 8.00  |                | 40.00      | Sft     |
| <b>TOTAL QUANTITY</b>                                  |  |      |   |                         |        |       | <b>40.00</b>   | <b>Sft</b> |         |

| Costruction of Science Lab/ Multipurpose Hall (36 x 26) |   |    |   |                         |             |   |      |                |            |         |
|---|---|----|---|-------------------------|-------------|---|------|----------------|------------|---------|
| Ground Floor  |   |    |   | DETAIL MEASURMENT SHEET |             |   |      |                |            |         |
| S. No   | Description   | No |   |                         | MEASUREMENT |   |      | QTY            | UNIT       | REMARKS |
|   |   |    |   |                         | L           | B | H/D  |                |            |         |
|   | Providing and fixing fully glazed single leaf hung/sliding aluminium windows, ventilators (Deluxe model - 1.6mm) of anodized champagne or approved color of Prime, Chawala, Pakistan Cable or any approved section as approved by Engineer incharge including aluminium fittings, 5 mm local tinted glass, lugs, cutting holes and making good the damages to walls.                                    |    |   |                         |             |   |      |                |            |         |
|   | <b>WINDOWS</b>  |    |   |                         |             |   |      |                |            |         |
|   | W1  | 5  | x | 1.0                     | 6.000       |   | 5.00 | 150.00         | Sft        |         |
|   | V1  | 5  | x | 1.0                     | 2.000       |   | 6.00 | 60.00          |            |         |
|   | <b>TOTAL QUANTITY</b>   |    |   |                         |             |   |      | <b>210.00</b>  | <b>Sft</b> |         |
|   | Distempering with Berger, ICI or equivalent synthetic polyvinyl emulsion finish of approved shade in two or more coats over and including the cost of priming coat including preparation of surface viz. dusting, sand papering or rubbing with pumice stone, filling cracks or holes, if any, removing blisters or other imperfections at any height and any floor. (@ atleast 2.20 Litre per 10 Sq.m) |    |   |                         |             |   |      |                |            |         |
|   | <b>Ceiling</b>  |    |   |                         |             |   |      |                |            |         |
|   | As per the Quantity of Ceiling Plaster  |    |   |                         |             |   |      | 1056.00        | Sft        |         |
|   | <b>TOTAL QUANTITY</b>   |    |   |                         |             |   |      | <b>1056.00</b> |            |         |





## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14      |   |    |   |      |                          |      |      |               |            |                             |
|---|---|----|---|------|--------------------------|------|------|---------------|------------|-----------------------------|
| Ground Floor                            |   |    |   |      | DETAIL MEASUREMENT SHEET |      |      |               |            |                             |
| S. No                                   | Description   | No |   |      | MEASUREMENT              |      |      | QTY           | UNIT       | REMARKS                     |
|   |   |    |   |      | L                        | B    | H/D  |               |            |                             |
| <b>CIVIL WORKS</b>                      |   |    |   |      |                          |      |      |               |            |                             |
| 1                                       | Excavation in foundation of buildings and bridges, including layout, dressing, refilling around structures with excavated earth, watering & ramming lead upto 100 ft., (30m) & lift upto 5 ft. (1.5m)   |    |   |      |                          |      |      |               |            |                             |
| <b>WALL FOUNDATION</b>                  |   |    |   |      |                          |      |      |               |            |                             |
| <b>H/W</b>                              |   |    |   |      |                          |      |      |               |            |                             |
| 1                                       | A,C(1-2)  | 2  | x | 1.0  | 15.500                   | 2.00 | 2.00 | 124.00        | Cft        | L/W                         |
| V/W                                     |   |    |   |      |                          |      |      |               |            |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 1.0  | 21.500                   | 2.00 | 2.00 | 172.00        | Cft        | S/W                         |
| <b>TOTAL QUANTITY</b>                   |   |    |   |      |                          |      |      | <b>296.00</b> | <b>CFT</b> |                             |
| 2                                       | Providing and laying plain hand mixed 1 : 4 : 8 cement concrete using sand approved source and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation and plinth including leveling, compacting & curing.  |    |   |      |                          |      |      |               |            |                             |
| <b>WALL FOUNDATION</b>                  |   |    |   |      |                          |      |      |               |            |                             |
| <b>H/W</b>                              |   |    |   |      |                          |      |      |               |            |                             |
| 1                                       | A,C(1-2)  | 2  | x | 1.0  | 15.500                   | 2.00 | 0.25 | 15.50         | Cft        | L/W                         |
| V/W                                     |   |    |   |      |                          |      |      |               |            |                             |
| 5                                       | 1,2 (A-C)   | 2  |   | 1.0  | 21.500                   | 2.00 | 0.25 | 21.50         | Cft        | S/W                         |
| <b>TOTAL QUANTITY</b>                   |   |    |   |      |                          |      |      | <b>37.00</b>  | <b>CFT</b> |                             |
| 3                                       | Providing and fabricating and laying Tor steel grade 60 having yield strength equal to 60000 psi reinforcement for all kind of RCC work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting bending, binding wastage and providing such overlap as are not shown on the drawings, the cost of binding wire and precast 1:2:4 cement concrete spacer block or MS chairs for binding and holding the reinforcement in position is inclusive up to 5m (14.6 ft) |    |   |      |                          |      |      |               |            |                             |
| <b>Steel In Footing</b>                 |   |    |   |      |                          |      |      |               |            |                             |
| <b>H/W</b>                              |   |    |   |      |                          |      |      |               |            |                             |
| 1                                       | A,C(1-2)  | 2  | x | 6.0  | 20.000                   |      | 0.30 | 72.00         | Kg         | #4 bars (diameter 1/2 inch) |
| 1                                       | Distribution Bar 6" C/C   | 2  | x | 39.0 | 6.000                    |      | 0.30 | 140.40        | Kg         | #4 bars (diameter 1/2 inch) |
| 3                                       | A,C(2-3)  | 2  | x | 6.0  | 15.000                   |      | 0.30 | 54.00         | Kg         | #4 bars (diameter 1/2 inch) |
| 3                                       | Distribution Bar 6" C/C   | 2  | x | 27.0 | 6.000                    |      | 0.30 | 97.20         | Kg         | #4 bars (diameter 1/2 inch) |
| V/W                                     |   |    |   |      |                          |      |      |               |            |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 6.0  | 25.000                   |      | 0.30 | 90.00         | Kg         | #4 bars (diameter 1/2 inch) |
| 5                                       | Distribution Bar 6" C/C   | 2  | x | 51.0 | 6.000                    |      | 0.30 | 183.60        | Kg         | #4 bars (diameter 1/2 inch) |
| <b>Sub structure</b>                    |   |    |   |      |                          |      |      |               |            |                             |
| <b>Steel In Columns</b>                 |   |    |   |      |                          |      |      |               |            |                             |
| <b>Column (C-1)</b>                     |   |    |   |      |                          |      |      |               |            |                             |
| 1                                       | Main Bars   | 9  | x | 6.0  | 18.000                   |      | 0.48 | 461.70        | Kg         | #4 bars (diameter 1/2 inch) |
| 1                                       | Ring Bars   | 9  | x | 12.0 | 3.500                    |      | 0.17 | 64.26         | Kg         | #3 bars (diameter 3/8 inch) |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b> |   |    |   |      |                          |      |      | <b>1.16</b>   | <b>TON</b> |                             |
| 4                                       | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in sills and Bed Plate including formwork and its removal, compacting and curing   |    |   |      |                          |      |      |               |            |                             |
| <b>IN FOUNDATION</b>                    |   |    |   |      |                          |      |      |               |            |                             |
| <b>H/W</b>                              |   |    |   |      |                          |      |      |               |            |                             |
| 1                                       | A,C(1-2)  | 2  | x | 1.0  | 15.500                   | 2.00 | 0.75 | 46.50         | Cft        | L/W                         |
| 3                                       | A,C(2-3)  | 2  | x | 1.0  | 9.500                    | 2.00 | 0.75 | 28.50         | Cft        | L/W                         |
| V/W                                     |   |    |   |      |                          |      |      |               |            |                             |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14      |   |    |   |     |             |                          |        |               |      |                             |
|---|---|----|---|-----|-------------|--------------------------|--------|---------------|------|-----------------------------|
| Ground Floor                            |   |    |   |     |             | DETAIL MEASUREMENT SHEET |        |               |      |                             |
| S. No                                   | Description   | No |   |     | MEASUREMENT |                          |        | QTY           | UNIT | REMARKS                     |
|   |   |    |   |     | L           | B                        | H/D    |               |      |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 1.0 | 21.500      | 2.00                     | 0.75   | 64.50         | Cft  | L/W                         |
| <b>TOTAL QUANTITY</b>                   |   |    |   |     |             |                          |        | <b>139.50</b> | Cft  |                             |
| 5                                       | Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing with 1:3   |    |   |     |             |                          |        |               |      |                             |
| <b>WALL FOUNDATION</b>                  |   |    |   |     |             |                          |        |               |      |                             |
| <b>1st step</b>                         |   |    |   |     |             |                          |        |               |      |                             |
| <b>H/W</b>                              |   |    |   |     |             |                          |        |               |      |                             |
| 1                                       | A,C(1-2)  | 2  | x | 1.0 | 16.000      | 2.000                    | 1.50   | 96.00         | Cft  | L/W                         |
| 3                                       |   |    |   |     |             |                          |        |               | Cft  | L/W                         |
| <b>V/W</b>                              |   |    |   |     |             |                          |        |               |      |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 1.0 | 22.000      | 2.000                    | 1.50   | 132.00        | Cft  | S/W                         |
| 6                                       |   |    |   |     |             |                          |        |               | Cft  | S/W                         |
| <b>DEDUCTION OF COLUMN</b>              |   |    |   |     |             |                          |        |               |      |                             |
| 1                                       | Cloumn (C-1)  | 9  | x | 1.0 | 2.750       | 0.750                    | 0.75   | -13.92        | Cft  |                             |
| <b>TOTAL QUANTITY</b>                   |   |    |   |     |             |                          |        | <b>214.08</b> | CFT  |                             |
| 6                                       | Providing and laying 1 : 2 : 4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) & down gauge in foundation including leveling, compacting and curing.   |    |   |     |             |                          |        |               |      |                             |
| <b>Column Foundation</b>                |   |    |   |     |             |                          |        |               |      |                             |
| 1                                       | Cloumn (C-1)  | 9  | x | 1.0 | 0.750       | 0.750                    | 16.000 | 81.000        | Cft  |                             |
| <b>TOTAL QUANTITY</b>                   |   |    |   |     |             |                          |        | <b>81.00</b>  | Cft  |                             |
| 3                                       | Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height |    |   |     |             |                          |        |               |      |                             |
| <b>PLINTH BAND STEEL</b>                |   |    |   |     |             |                          |        |               |      |                             |
| <b>H/W</b>                              |   |    |   |     |             |                          |        |               |      |                             |
| 1                                       | A,C(1-2)  | 2  | x | 6   | 20.000      |                          | 0.30   | 72.00         | Kg   | #4 bars (diameter 1/2 inch) |
| 1                                       | Distribution Bar 6" C/C   | 2  | x | 35  | 5.000       |                          | 0.17   | 59.50         | Kg   | #3 bars (diameter 3/8 inch) |
| 3                                       | A,C(2-3)  | 2  | x | 6   | 14.000      |                          | 0.30   | 50.40         | Kg   | #4 bars (diameter 1/2 inch) |
| 3                                       | Distribution Bar 6" C/C   | 2  | x | 23  | 5.000       |                          | 0.17   | 39.10         | Kg   | #3 bars (diameter 3/8 inch) |
| <b>V/W</b>                              |   |    |   |     |             |                          |        |               |      |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 6   | 23.000      |                          | 0.30   | 82.80         | Kg   | #4 bars (diameter 1/2 inch) |
| 5                                       | Distribution Bar 6" C/C   | 2  | x | 51  | 5.000       |                          | 0.17   | 86.70         | Kg   | #3 bars (diameter 3/8 inch) |
| 6                                       | 3,(A-C) Beam  | 1  | x | 6   | 23.000      |                          | 0.30   | 41.40         | Kg   | #4 bars (diameter 1/2 inch) |
| 6                                       | Distribution Bar 6" C/C   | 1  | x | 51  | 5.000       |                          | 0.17   | 43.35         | Kg   | #3 bars (diameter 3/8 inch) |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b> |   |    |   |     |             |                          |        | <b>475.25</b> | Kg   |                             |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b> |   |    |   |     |             |                          |        | <b>0.48</b>   | Ton  |                             |
| 7                                       | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.  |    |   |     |             |                          |        |               |      |                             |
| <b>PLINTH BEAM</b>                      |   |    |   |     |             |                          |        |               |      |                             |
| <b>H/W</b>                              |   |    |   |     |             |                          |        |               |      |                             |
| 1                                       | A,C(1-2)  | 2  | x | 1   | 15.000      | 1.50                     | 0.75   | 33.75         | CFT  |                             |
| 3                                       | A,C(2-3)  | 2  | x | 1   | 9.500       | 1.50                     | 0.75   | 21.38         | CFT  |                             |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14       |   |    |   |      |                          |       |      |               |               |                             |
|--|---|----|---|------|--------------------------|-------|------|---------------|---------------|-----------------------------|
| Ground Floor                             |   |    |   |      | DETAIL MEASUREMENT SHEET |       |      |               |               |                             |
| S. No                                    | Description   | No |   |      | MEASUREMENT              |       |      | QTY           | UNIT          | REMARKS                     |
|  |   |    |   |      | L                        | B     | H/D  |               |               |                             |
| <b>V/W</b>                               |   |    |   |      |                          |       |      |               |               |                             |
| 5  | 1,2 (A-C)   | 2  | x | 1    | 20.000                   | 1.50  | 0.75 | 45.00         | CFT           |                             |
| 6  | 3,(A-C) Beam  | 1  | x | 1    | 20.000                   | 1.50  | 0.75 | 22.50         | CFT           |                             |
| <b>TOTAL QUANTITY</b>                    |   |    |   |      |                          |       |      | <b>122.63</b> | <b>CFT</b>    |                             |
| 8  | Providing and laying first class solid burnt brick masonry (Brick Strength:1800psi-2000psi) including scaffolding, raking out joints and curing in ground floor superstructure and i/c cost of testing with 1:3   |    |   |      |                          |       |      |               |               |                             |
| <b>below door band + above door band</b> |   |    |   |      |                          |       |      |               |               |                             |
| <b>H/W</b>                               |   |    |   |      |                          |       |      |               |               |                             |
| 1  | A,C(1-2)  | 2  | x | 1.0  | 14.000                   | 0.75  | 9.00 | 189.00        | Cft           |                             |
|  | paraphet wall   | 2  | x | 2.0  | 14.000                   | 0.50  | 2.00 | 56.00         |               |                             |
| <b>V/W</b>                               |   |    |   |      |                          |       |      |               |               |                             |
| 5  | 1,2 (A-C)   | 2  | x | 1.0  | 20.500                   | 0.75  | 9.00 | 276.75        | Cft           |                             |
|  | paraphet wall   | 2  | x | 2.0  | 20.000                   | 0.50  | 2.00 | 80.00         |               |                             |
| <b>Sub Total A</b>                       |   |    |   |      |                          |       |      | <b>601.75</b> | <b>Cft</b>    |                             |
| <b>DEDUCTION</b>                         |   |    |   |      |                          |       |      |               |               |                             |
| 1  | Cloumn (C-1)  | 9  | x | 1.0  | 11.000                   | 0.750 | 0.75 | 55.69         | Cft           |                             |
| D1                                       | D1  | 1  | x | 1.0  | 4.000                    | 0.750 | 8.00 | 24.00         | Cft           |                             |
| W1                                       | W1  | 1  | x | 3.0  | 6.000                    | 0.750 | 5.00 | 67.50         | Cft           |                             |
| V1                                       | V1  | 1  | x | 3.0  | 2.000                    | 0.750 | 6.00 | 27.00         | Cft           |                             |
| <b>Sub Total b</b>                       |   |    |   |      |                          |       |      | <b>174.19</b> |               |                             |
| <b>TOTAL QUANTITY</b>                    |   |    |   |      |                          |       |      | <b>A-B</b>    | <b>427.56</b> | <b>CFT</b>                  |
| 3  | Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height |    |   |      |                          |       |      |               |               |                             |
| <b>DOOR BAND STEEL</b>                   |   |    |   |      |                          |       |      |               |               |                             |
| <b>H/W</b>                               |   |    |   |      |                          |       |      |               |               |                             |
| 1  | A,C(1-2)  | 2  | x | 6.0  | 18.000                   | 0.30  |      | 64.80         | Kg            | #4 bars (diameter 1/2 inch) |
| 1  | Distribution Bar 6" C/C   | 2  | x | 33.5 | 3.500                    | 0.17  |      | 39.87         | Kg            | #3 bars (diameter 3/8 inch) |
| 2  | B (1-2) beam  | 1  | x | 6.0  | 18.000                   | 0.30  |      | 32.40         | Kg            | #4 bars (diameter 1/2 inch) |
| 2  | Distribution Bar 6" C/C   | 1  | x | 33.5 | 3.500                    | 0.17  |      | 19.93         | Kg            | #3 bars (diameter 3/8 inch) |
| 3  | A,C(2-3)  | 2  | x | 6.0  | 11.000                   | 0.30  |      | 39.60         | Kg            | #4 bars (diameter 1/2 inch) |
| 3  | Distribution Bar 6" C/C   | 2  | x | 21.5 | 3.500                    | 0.17  |      | 25.59         | Kg            | #3 bars (diameter 3/8 inch) |
| 4  | B (2-3) beam  | 1  | x | 6.0  | 11.000                   | 0.30  |      | 19.80         | Kg            | #4 bars (diameter 1/2 inch) |
| 4  | Distribution Bar 6" C/C   | 1  | x | 21.5 | 3.500                    | 0.17  |      | 12.79         | Kg            | #3 bars (diameter 3/8 inch) |
| 0  | V/W   |    | x |      |                          |       |      |               |               |                             |
| 5  | 1,2 (A-C)   | 2  | x | 4.0  | 24.000                   | 0.30  |      | 57.60         | Kg            | #4 bars (diameter 1/2 inch) |
| 5  | Distribution Bar 6" C/C   | 2  | x | 45.5 | 3.500                    | 0.17  |      | 54.15         | Kg            | #3 bars (diameter 3/8 inch) |
| 6  | 3,(A-C) Beam  | 1  | x | 4.0  | 22.250                   | 0.30  |      | 26.70         | Kg            | #4 bars (diameter 1/2 inch) |
| <b>Total</b>                             |   |    |   |      |                          |       |      | <b>393.22</b> | <b>Kg</b>     |                             |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b>  |   |    |   |      |                          |       |      | <b>0.39</b>   | <b>Ton</b>    |                             |
| 9  | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.  |    |   |      |                          |       |      |               |               |                             |
| <b>DOOR BEND</b>                         |   |    |   |      |                          |       |      |               |               |                             |
| <b>H/W</b>                               |   |    |   |      |                          |       |      |               |               |                             |
| 1  | A,C(1-2)  | 2  | x | 1.0  | 14.000                   | 0.75  | 0.75 | 15.75         | Cft           |                             |
| 2  | B (1-2) beam  | 1  | x | 1.0  | 16.250                   | 0.75  | 0.75 | 9.14          | Cft           |                             |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14 |  |    |   |     |                          |              |      |               |      |         |
|------------------------------------|--|----|---|-----|--------------------------|--------------|------|---------------|------|---------|
| Ground Floor                       |  |    |   |     | DETAIL MEASUREMENT SHEET |              |      |               |      |         |
| S. No                              | Description  | No |   |     | MEASUREMENT              |              |      | QTY           | UNIT | REMARKS |
|                                    |  |    |   |     | L                        | B            | H/D  |               |      |         |
| 3                                  | A,C(2-3)   | 2  | x | 1.0 | 9.500                    | 0.75         | 0.75 | 10.69         | Cft  |         |
| 4                                  | B (2-3) beam   | 1  | x | 1.0 | 9.500                    | 0.75         | 0.75 | 5.34          | Cft  |         |
|                                    | <b>V/W</b>   |    |   |     |                          |              |      |               |      |         |
| 5                                  | 1,2 (A-C)  | 2  | x | 1.0 | 26.875                   | 0.75         | 0.75 | 30.23         | Cft  |         |
| 6                                  | 3,(A-C) Beam   | 1  | x | 1.0 | 18.000                   | 0.75         | 0.75 | 10.13         | Cft  |         |
|                                    |  |    |   |     |                          | <b>Total</b> |      | <b>81.28</b>  | Cft  |         |
| 10                                 | Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft. (15m)) |    |   |     |                          |              |      |               |      |         |
| 1                                  | CLASSROOM  | 1  | x | 1.0 | 18.000                   | 14.00        | 1.00 | 252.00        | Cft  |         |
| 2                                  | VERANDAH   | 1  | x | 1.0 | 18.000                   | 10.00        | 1.00 | 180.00        | Cft  |         |
|                                    | <b>TOTAL QUANTITY</b>  |    |   |     |                          |              |      | <b>432.00</b> | Cft  |         |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14      |   |    |   |      |             |                          |      |                |            |                             |
|---|---|----|---|------|-------------|--------------------------|------|----------------|------------|-----------------------------|
| Ground Floor                            |   |    |   |      |             | DETAIL MEASUREMENT SHEET |      |                |            |                             |
| S. No                                   | Description   | No |   |      | MEASUREMENT |                          |      | QTY            | UNIT       | REMARKS                     |
|   |   |    |   |      | L           | B                        | H/D  |                |            |                             |
| 11                                      | Providing and laying plain hand mixed 1 : 4 : 8 cement concrete using sand approved source and crushed aggregate having maximum size upto 1-1/2" (38mm) & down gauge in foundation and plinth including leveling, compacting & curing.  |    |   |      |             |                          |      |                |            |                             |
| 1                                       | CLASSROOM   | 1  | x | 1.0  | 18.000      | 14.00                    | 0.33 | 84.00          | Cft        |                             |
| 2                                       | VERANDAH  | 1  | x | 1.0  | 18.000      | 10.00                    | 0.33 | 60.00          | Cft        |                             |
| <b>TOTAL QUANTITY</b>                   |   |    |   |      |             |                          |      | <b>144.00</b>  | <b>CFT</b> |                             |
| 3                                       | Providing, fabricating and laying deformed Grade 60 steel reinforcement (deformed bar) for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or chairs for binding and holding the reinforcement in position is inclusive upto 15 ft. (5m) height |    |   |      |             |                          |      |                |            |                             |
| <b>Roof Band Steel</b>                  |   |    |   |      |             |                          |      |                |            |                             |
| <b>H/W</b>                              |   |    |   |      |             |                          |      |                |            |                             |
| 1                                       | A,C(1-2)  | 2  | x | 8    | 15.500      |                          | 0.30 | 74.40          | Kg         | #4 bars (diameter 1/2 inch) |
| 1                                       | Distribution Bar 6" C/C   | 2  | x | 34   | 5.000       |                          | 0.17 | 56.95          | Kg         | #3 bars (diameter 3/8 inch) |
| 2                                       | B (1-2) beam  | 1  | x | 8    | 15.500      |                          | 0.30 | 37.20          | Kg         | #4 bars (diameter 1/2 inch) |
| 2                                       | Distribution Bar 6" C/C   | 1  | x | 34   | 5.000       |                          | 0.17 | 28.48          | Kg         | #3 bars (diameter 3/8 inch) |
| <b>V/W</b>                              |   |    |   |      |             |                          |      |                |            |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 8    | 21.500      |                          | 0.30 | 103.20         | Kg         | #4 bars (diameter 1/2 inch) |
| 5                                       | Distribution Bar 6" C/C   | 2  | x | 44   | 5.000       |                          | 0.17 | 74.80          | Kg         | #3 bars (diameter 3/8 inch) |
| <b>Total</b>                            |   |    |   |      |             |                          |      | <b>375.03</b>  | <b>Kg</b>  |                             |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b> |   |    |   |      |             |                          |      | <b>0.38</b>    | <b>Ton</b> |                             |
| <b>ROOF SLAB</b>                        |   |    |   |      |             |                          |      |                |            |                             |
| <b>CLASSROOM</b>                        |   |    |   |      |             |                          |      |                |            |                             |
| 1                                       | Bottom long bar   | 1  | x | 54.3 | 22.000      |                          | 0.30 | 358.60         | Kg         | #4 bars (diameter 1/2 inch) |
| 1                                       | Bottomshort b bar 6"@c/c  | 1  | x | 74.3 | 16.000      |                          | 0.17 | 202.19         | Kg         | #4 bars (diameter 1/2 inch) |
| 1                                       | Top long bar  | 1  | x | 16.6 | 6.000       |                          | 0.17 | 16.89          | Kg         | #4 bars (diameter 1/2 inch) |
| 1                                       | Top short b bar 6"@c/c  | 1  | x | 21.0 | 4.667       |                          | 0.17 | 16.66          | Kg         | #4 bars (diameter 1/2 inch) |
| <b>VERANDAH</b>                         |   |    |   |      |             |                          |      |                |            |                             |
| 2                                       | Bottom long bar   | 1  | x | 41.0 | 22.000      |                          | 0.30 | 270.60         | Kg         | #4 bars (diameter 1/2 inch) |
| 2                                       | Bottomshort b bar 6"@c/c  | 1  | x | 74.3 | 12.000      |                          | 0.17 | 151.64         | Kg         | #4 bars (diameter 1/2 inch) |
| 2                                       | Top long bar  | 1  | x | 12.1 | 6.000       |                          | 0.17 | 12.35          | Kg         | #4 bars (diameter 1/2 inch) |
| 2                                       | Top short b bar 6"@c/c  | 1  | x | 21.0 | 3.333       |                          | 0.17 | 11.90          | Kg         | #4 bars (diameter 1/2 inch) |
| <b>W,Shades</b>                         |   |    |   |      |             |                          |      |                |            |                             |
| <b>W1</b>                               |   |    |   |      |             |                          |      |                |            |                             |
| W1                                      | Bottom long bar   | 3  | x | 7.0  | 6.000       |                          | 0.30 | 37.80          | Kg         | #4 bars (diameter 1/2 inch) |
| W1                                      | Bottomshort b bar 6"@c/c  | 3  | x | 13.0 | 3.000       |                          | 0.30 | 35.10          | Kg         | #4 bars (diameter 1/2 inch) |
| <b>Total</b>                            |   |    |   |      |             |                          |      | <b>1113.73</b> | <b>kg</b>  |                             |
| <b>TOTAL QUANTITY IN TON (LBS/2240)</b> |   |    |   |      |             |                          |      | <b>1.11</b>    | <b>Ton</b> |                             |
| 12                                      | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm.) and down gauge in plinth band, door band and roof band of required shape or section including formwork and its removal, compacting and curing in basement and ground floor but excluding the cost of reinforcement.  |    |   |      |             |                          |      |                |            |                             |
| <b>ROOF BEND</b>                        |   |    |   |      |             |                          |      |                |            |                             |
| <b>H/W</b>                              |   |    |   |      |             |                          |      |                |            |                             |
| 1                                       | A,C(1-2)  | 2  | x | 1.0  | 15.000      | 0.75                     | 1.50 | 33.75          | Cft        |                             |
| 2                                       | B (1-2) beam  | 1  | x | 1.0  | 15.000      | 0.75                     | 1.50 | 16.88          | Cft        |                             |
| <b>V/W</b>                              |   |    |   |      |             |                          |      |                |            |                             |
| 0                                       |   | 0  | 0 | -    | 0.000       | 0.75                     | 1.50 | 0.00           | Cft        |                             |
| 5                                       | 1,2 (A-C)   | 2  | x | 1.0  | 22.000      | 0.75                     | 1.50 | 49.50          | Cft        |                             |
| <b>Total</b>                            |   |    |   |      |             |                          |      | <b>100.13</b>  | <b>Cft</b> |                             |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14 |  |      |   |      |                          |        |       |               |            |         |
|------------------------------------|--|------|---|------|--------------------------|--------|-------|---------------|------------|---------|
| Ground Floor                       |  |      |   |      | DETAIL MEASUREMENT SHEET |        |       |               |            |         |
| S. No                              | Description  | No   |   |      | MEASUREMENT              |        |       | QTY           | UNIT       | REMARKS |
|                                    |  |      |   |      | L                        | B      | H/D   |               |            |         |
| 13                                 | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in slabs including formwork and its removal, compacting and curing Upto 6" (150 mm) thickness i) In basement, plinth and ground floor                       |      |   |      |                          |        |       |               |            |         |
| 1                                  | CLASSROOM  | 1    | x | 1.0  | 18.000                   | 14.000 | 0.50  | 126.00        | Cft        |         |
| 2                                  | VERANDAH   | 1    | x | 1.0  | 18.000                   | 10.000 | 0.50  | 90.00         | Cft        |         |
|                                    | <b>Shade on Windows</b>  |      |   |      |                          |        |       |               |            |         |
| W1                                 | W1   | 1    | x | 3.0  | 6                        | 1.500  | 0.50  | 13.50         | Cft        |         |
|                                    | <b>TOTAL QUANTITY</b>  |      |   |      |                          |        |       | <b>229.50</b> | <b>Cft</b> |         |
| 14                                 | Cement plaster using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of beams, in basement and ground floor including making edges, corners and curing. 1/2 inch (13mm) thick cement sand plaster 1:4   |      |   |      |                          |        |       |               |            |         |
| 1                                  | CLASSROOM  | 1    | x | 1.0  | 20.000                   | 14.00  |       | 280.00        | Sft        |         |
| 2                                  | VERANDAH   | 1    | x | 1.0  | 20.000                   | 10.00  |       | 200.00        | Sft        |         |
|                                    | <b>TOTAL QUANTITY</b>  |      |   |      |                          |        |       | <b>480.00</b> | <b>Sft</b> |         |
| 15                                 | 3/4 inch (19mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing. The mix ratio is 1:4 cement sand.   |      |   |      |                          |        |       |               |            |         |
|                                    | <b>Interior Walls</b>  |      |   |      |                          |        |       |               |            |         |
| 1                                  | CLASSROOM  | 2    | x | 1.0  | 20.000                   |        | 11.00 | 440.00        | Sft        |         |
| 1                                  |  | 2    | x | 1.0  | 14.00                    |        | 11.00 | 308.00        | Sft        |         |
| 2                                  | VERANDAH   | 1    | x | 1.0  | 20.000                   |        | 11.00 | 220.00        | Sft        |         |
| 2                                  |  | 0    | x | 1.0  | 10.00                    |        | 11.00 | 0.00          | Sft        |         |
|                                    |  |      |   |      |                          |        |       | <b>968.00</b> | <b>Sft</b> |         |
|                                    | <b>OPENINGS &amp; DOOR /WINDOWS</b>  |      |   |      |                          |        |       |               |            |         |
| D1                                 | D1   | 1    | x | 1.0  | 5.000                    |        | 8.00  | 40.00         | Cft        |         |
| W1                                 | W1   | 1    | x | 5.0  | 6.000                    |        | 5.00  | 150.00        | Cft        |         |
| V1                                 | V1   | 1    | x | 5.0  | 2.000                    |        | 6.00  | 60.00         |            |         |
|                                    |  |      |   |      |                          |        |       | <b>250.00</b> | <b>CFT</b> |         |
|                                    | <b>TOTAL QUANTITY (A+B)</b>  |      |   |      |                          |        |       | <b>718.00</b> | <b>CFT</b> |         |
| 16                                 | 3/4 inch (19mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing. Extra if false pointing is required with lime/surkhi or pigment on plastered surface of any description in any floor. |      |   |      |                          |        |       |               |            |         |
| 1                                  | A.C(1-2)   | 2    | x | 1.0  | 15.000                   |        | 13.00 | 390.00        |            |         |
| 2                                  | 1,2 (A-C)  | 2    | x | 1.0  | 22.000                   |        | 13.00 | 572.00        |            |         |
|                                    | <b>TOTAL QUANTITY</b>  |      |   |      |                          |        |       | <b>962.00</b> | <b>Cft</b> |         |
|                                    | <b>OPENINGS &amp; DOOR /WINDOWS</b>  |      |   |      |                          |        |       |               |            |         |
| D1                                 | D1   | 1    | x | 1.0  | 4.000                    |        | 8.00  | 32.00         | Cft        |         |
| W1                                 | W1   | 1    | x | 6.0  | 6.000                    |        | 5.00  | 180.00        | Cft        |         |
| V1                                 | V1   | 1    | x | 3.0  | 2.000                    |        | 6.00  | 36.00         |            |         |
|                                    |  |      |   |      |                          |        |       | <b>248.00</b> | <b>CFT</b> |         |
|                                    | <b>TOTAL QUANTITY (A+B)</b>  |      |   |      |                          |        |       | <b>714.00</b> | <b>CFT</b> |         |
| 17                                 | Providing and laying floor 1:2:4 reinforced cement concrete using crushed aggregate 3/4" (19mm) and ground floor including formwork, consolidation, finishing and curing but excluding the cost of reinforcement 3" (75 mm) nominal thick flooring                                 |      |   |      |                          |        |       |               |            |         |
| 1                                  | CLASSROOM  | 1.00 | x | 1.00 | 20.00                    | 14.00  | 0.33  | 92.40         | Cft        |         |
| 2                                  | VERANDAH   | 1.00 | x | 1.00 | 20.00                    | 10.00  | 0.33  | 66.00         | Cft        |         |
|                                    | <b>TOTAL QUANTITY</b>  |      |   |      |                          |        |       | <b>158.40</b> | <b>CFT</b> |         |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14 |  |    |   |     |                          |      |      |               |            |         |
|------------------------------------|--|----|---|-----|--------------------------|------|------|---------------|------------|---------|
| Ground Floor                       |  |    |   |     | DETAIL MEASUREMENT SHEET |      |      |               |            |         |
| S. No                              | Description  | No |   |     | MEASUREMENT              |      |      | QTY           | UNIT       | REMARKS |
|                                    |  |    |   |     | L                        | B    | H/D  |               |            |         |
| 19                                 | Providing and laying Conglomerate flooring (two coat work) having 1/2" (9mm) thick wearing surface comprising 1 part of cement & 2 parts of stone chips passing 3/16" sieve, over 1:3:6 concrete base using crushed aggregate laid in panels or approved pattern including formwork, curing, and surface finishing as approved by Engineer Incharge. mortar.   |    |   |     |                          |      |      |               |            |         |
| 1                                  | A,C(1-2)   | 1  | x | 1.0 | 15                       | 2.00 | 0.50 | 15.00         |            |         |
| 2                                  | 1,2 (A-C)  | 2  | x | 1.0 | 20                       | 2.00 | 0.50 | 40.00         |            |         |
|                                    | <b>TOTAL QUANTITY</b>  |    |   |     |                          |      |      | <b>55.00</b>  | <b>SFT</b> |         |
| 21                                 | Providing and fixing moulded steel door frame of approved profile, manufactured from zinc-coated mild steel sheets 16 gauge made by Shahah Industries or equivalent standard conforming to B.S.S.1245, treated with special primer base paint all round, fitted with six fixing lugs, three steel hinges for fixing door shutters standard lock-strike plate, one sliding holt eye, and three rubber buffers, including cutting holes and making good damages to walls and filling the door frame cavity with lean cement mortar 1:4 as directed by the Engineer |    |   |     |                          |      |      |               |            |         |
|                                    | <b>DOOR</b>  |    |   |     |                          |      |      |               |            |         |
| D1                                 | D1   | 1  | x | 1.0 | 20.000                   |      |      | 20.00         | Cft        |         |
|                                    | <b>TOTAL QUANTITY</b>  |    |   |     |                          |      |      | <b>20.00</b>  | <b>Cft</b> |         |
| 22                                 | Providing and fixing 3" thick First class approved wood (Keil) shutter fixed with wooden sheet and with approved nickle plated hinges and tower bolts Handle and handle Locks  |    |   |     |                          |      |      |               |            |         |
|                                    | <b>DOOR</b>  |    |   |     |                          |      |      |               |            |         |
| D1                                 | D1   | 1  | x | 1.0 | 4.000                    |      | 8.00 | 32.00         | Sft        |         |
|                                    | <b>TOTAL QUANTITY</b>  |    |   |     |                          |      |      | <b>32.00</b>  | <b>Sft</b> |         |
| 23                                 | Providing and fixing fully glazed single leaf hung/sliding aluminium windows, ventilators (Deluxe model - 2mm) of anodized champagne or approved color of Prime, Chawala, Pakistan Cable or any approved section as approved by Engineer incharge including aluminium fittings, 5 mm local tinted glass, lugs, cutting holes and making good the damages to walls.   |    |   |     |                          |      |      |               |            |         |
|                                    | <b>WINDOWS</b>   |    |   |     |                          |      |      |               |            |         |
| W1                                 | W1   | 3  | x | 1.0 | 6.000                    |      | 5.00 | 90.00         | Sft        |         |
| V1                                 | V1   | 3  | x | 1.0 | 2.000                    |      | 6.00 | 36.00         |            |         |
|                                    | <b>TOTAL QUANTITY</b>  |    |   |     |                          |      |      | <b>126.00</b> | <b>Sft</b> |         |



## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Ground Floor   |   | DETAIL MEASUREMENT SHEET |             |   |     |               |      |         |
|----------------|---|--------------------------|-------------|---|-----|---------------|------|---------|
| S. No          | Description   | No                       | MEASUREMENT |   |     | QTY           | UNIT | REMARKS |
|                |   |                          | L           | B | H/D |               |      |         |
| 25             | Applying Matt finish inclding cost of coat premirer and wall patti and with approved brand (Berger, ICI or equivalent )synthetic polyvinyl emulsion finish of approved shade in two or more coats over and including the cost of priming coat including preparation of surface viz. dusting, sand papering or rubbing with pumice stone, filling cracks or holes, if any, removing blisters or other imperfections at any height and any floor. (@ atleast 2.20 Litre per 10 Sq.m) as per approved color and design |                          |             |   |     |               |      |         |
| <b>Ceiling</b> |   |                          |             |   |     |               |      |         |
|                | As per the Quantity of Ceiling Plaster  |                          |             |   |     | 480.00        | Sft  |         |
| TOTAL QUANTITY |   |                          |             |   |     | <b>480.00</b> |      |         |

## Construction of Class-Room 20 x 14

Construction of Class-Room 20 x 14

| Construction of Class-Room 20 x 14 |   |    |   |     |                          |   |               |              |      |         |
|------------------------------------|---|----|---|-----|--------------------------|---|---------------|--------------|------|---------|
| Ground Floor                       |   |    |   |     | DETAIL MEASUREMENT SHEET |   |               |              |      |         |
| S. No                              | Description   | No |   |     | MEASUREMENT              |   |               | QTY          | UNIT | REMARKS |
|                                    |   |    |   |     | L                        | B | H/D           |              |      |         |
| 27                                 | Applying weather resistant paint coating such as ICI weather shield, Berger weather coat or equivalent to interior or exterior walls or ceiling including supplying all labour, materials, scaffoldings and removal of debris etc. @ atleast 3.50 litre per 10 as per approved color and design           |    |   |     |                          |   |               |              |      |         |
| 1                                  | As per the Qunatity of exterior ploster /Pointing   |    |   |     |                          |   | 714.00        | Sft          |      |         |
|                                    | <b>TOTAL QUANTITY</b>   |    |   |     |                          |   | <b>714.00</b> | Sft          |      |         |
| 28                                 | Painting in ground floor or basement with Robbialac or equivalent super gloss synthetic enamel paint in two or more coats as per manufacturer's insruction on wood work over and including the cost of priming coat, surface preparation, rubbing down smooth, knotted, filling cracks, holes and joints. |    |   |     |                          |   |               |              |      |         |
|                                    | <b>DOOR</b>   |    |   |     |                          |   |               |              |      |         |
| D1                                 | D1  | 1  | x | 1.0 | 4.000                    |   | 8.00          | 32.00        | Sft  |         |
|                                    | <b>TOTAL QUANTITY</b>   |    |   |     |                          |   |               | <b>32.00</b> | Sft  |         |

| S.NO | DESCRIPTION  | NO | LENGTH | WIDTH | H/D   | QUANTITY       | UNIT |
|------|--|----|--------|-------|-------|----------------|------|
|      | <b>Civil Works</b>   |    |        |       |       |                |      |
|      | dismantling of old mud brick wall and take away the surplus left material 5 km away from school  | 1  | 900    | 1     | 1.00  | 900            | RFT  |
| 1    | Excavation in foundation of buildings, bridges and other structures, depth up to 4 meters including dreg bellings dressing, refilling around structures with excavated earth, watering and ramming lead up to 30 m lift up to 1.5 m.   | 1  | 900    | 2     | 2.00  | 3600           | CFT  |
| 2    | Providing and laying cement concrete thick and down 1:4:8 ratio using gauge in foundation including levelling compacting and curing. Extra if crushed stone 19mm (3/4") and down gauge is used in place of shingle or bajri  | 1  | 900    | 2     | 0.25  | 450            | CFT  |
| 3    | Providing and laying 1:2:4 cement concrete using (3/4") thick and down gauge in foundation including levelling compacting and curing.  | 1  | 900    | 2     | 0.50  | 900            | CFT  |
| 4    | Providing and laying first class solid burnt brick masonry including scaffolding, raking out joints and curing in foundation, basement and plinth.   | 1  | 900    | 1.5   | 1.00  | 1350           |      |
|      | 0th step   | 1  | 900    | 1.125 | 1.00  | 1012.5         |      |
|      | <b>2ND STEP</b>  |    |        |       |       |                |      |
|      | 1st  | 1  | 900    | 1.125 | 1.00  | 1012.5         |      |
|      |  |    |        |       |       | <b>2362.50</b> | CFT  |
| 5    | Providing and laying 6" (50mm) thick damp proof course with 1:2:4 cement concrete using Coarse Sand and crushed aggregate 1/2" (13mm) and down gauge mixed with any approved water proofing agent including compacting, curing, formwork and its removal.  |    |        |       |       |                |      |
|      | 6 thick damp proof course.   | 1  | 900    | 1.125 |       | 1012.5         | SFT  |
| 6    | Providing and laying first class solid burnt brick masonry including scaffolding, raking out joints and curing in ground floor superstructure with ratio 1:4.  | 1  | 900    | 0.75  | 10.00 | 6750           |      |
|      | Deduction columns  | 78 | 0.75   | 0.75  | 10.00 | 438.75         |      |
|      |  |    |        |       |       | <b>7188.8</b>  | CFT  |
| 9    | Providing and laying cement concrete using crushed stone 19 mm (3/4") and down gauge in columns including compacting, curing, cost of form work and its removal in basement, and ground floor. Mix ratio is 1:2:4  | 1  | 900    | 2     | 0.75  | 1350           |      |
|      | <b>Foundation</b>  |    |        |       |       |                |      |
|      | COLUMN 03  | 78 | 0.75   | 0.75  | 10.00 | 438.75         |      |
|      |  |    |        |       |       | <b>1788.8</b>  | CFT  |
| 10   | Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in precast shelves <b>copings</b> , cornices, eave boards, hood, fencing posts and manhole covers etc. including formwork & its removal, compacting and curing in ground floor. | 1  | 900    | 1.125 | 0.25  | 253.125        |      |
|      |  |    |        |       |       | <b>253.1</b>   | CFT  |
| 18   | 19 mm (3/4") thick cement plaster on walls and columns in basement, plinth and ground floor including making edges, corners and curing. The mix ratio is 1:4 cement sand.  | 2  | 900    |       | 8.00  | 14400          |      |

|    |   |             |       |               |       |                 |                 |     |
|----|---|-------------|-------|---------------|-------|-----------------|-----------------|-----|
| 19 | White washing three coats including dusting, filling the holes, cracks and removing inequalities, if any, at any height in any floor  |             |       |               |       |                 | <b>14400.00</b> | SFT |
|    | <b>wall</b>   | 2           | 900   | Brown         | 8.00  | <b>14400</b>    |                 |     |
|    | <b>columns</b>  | 78          | 0.75  | <b>Yellow</b> | 8.00  | <b>468</b>      |                 |     |
|    |   |             |       |               |       |                 | <b>14868.0</b>  | SFT |
| 28 | Providing, fabricating and laying deformed bars grade 40 having yield strength equal to 40,000 psi reinforcement for all kinds of R.C.C work in foundation, plinth, ground and first floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such overlaps as are not shown on the drawings. The cost of binding wire and precast 1:2:4 cement concrete spacer blocks or M.S chair for binding and holding the reinforcement in position is inclusive. |             |       |               |       |                 |                 |     |
|    | Foundation  | 4           | 900   |               | 0.668 | <b>2404.8</b>   |                 |     |
|    | Rings 3/8" dia  | 1201        | 4.6   |               | 0.375 | <b>2071.725</b> |                 |     |
|    | Columns   | 78          |       |               |       |                 |                 |     |
|    | 1/2" dia  | 4           | 10    |               | 0.668 | <b>2084.16</b>  |                 |     |
|    | Rings 3/8" dia  | 14.33333333 | 3.5   |               | 0.375 | <b>1467.375</b> |                 |     |
|    |   |             |       |               |       |                 | 8028.06         |     |
|    |   |             |       |               | 2240  |                 | <b>3.58</b>     | Ton |
| 29 | Providing and fixing Main gate 10 feet wide and 8 feet and 4x8 height 16 gauge sheet installed in two columns of 1.5x1.5 brick brick fixed properly with hinges including the cost of painting with two coat red oxide and two coat of oil paint.   |             |       |               |       |                 |                 |     |
|    | Main Gate 8/10  | 3           | 10.00 | 8             | 1.00  | 240             |                 |     |
|    | small gate 4/8  | 3           | 4     | 8             | 1.00  | 96              |                 |     |
|    |   |             |       |               |       |                 | 336.00          | SFT |
| 29 | Providing and fixing barbed wire fencing comprising 1.5"x 1.5"x 3/16" angle iron post 3 ft long, 4 ft c/c embeded in cement concrete 1:4:8 base of 9"x 9"x 12" size with three rows of barbed wire 6" c/c including binding wire and painting of posts.   |             |       |               |       |                 |                 |     |
|    | Barbed wire 3 ply, 12 gauge (2.17 mm) thick   | 1           | 900   |               |       | 900.00          | 900.00          | RFT |