



## Master Concrete Block Manufacturing

50, Purana Paltan Lane (2<sup>nd</sup> Floor), Dhaka-1000.  
Tel: 01711 245 397, E-mail: mcbm.sales@gmail.com

### INTRODUCING

We would like to introduce ourselves as an Entrepreneur **MCBM (MASTER CONCRETE BLOCK MANUFACTURING)** in concrete products manufacturing & marketing sector in the country. Concrete Blocks; have been in use as the basic building materials for more than half a century in many countries of the world. In the recent past this modern environment friendly building technology is transferred to Bangladesh. Concrete Blocks are cheap comparing to the traditional clay Bricks and save considerable amount of time and effort.

The structural contributions of concrete blocks are well known for its **strength, durability, fire-resistance, thermal-insulation, sound-absorption, flexibility & salinity free**. Using of concrete blocks for the constructional works, helps the nature by saving the forest, agricultural lands & keeping the environment pollution free.

It is to be mentioned that we are producing & supplying our good quality concrete products all over the country for building construction, City Corporation urban development works, industries, pouroushaba, Pvt. ICD & others. **Concrete blocks, Uni-Pavers, Road-Kerbs, Saucer-Drain, Embankment Protection Block, Pavement-Tiles & other products of different size & color** are kept ready available at our factory stock yard to meet urgent requirement of our valued clients.

**We are ready to provide Technical briefing, mason Training & Free site supervision** for your work as required.

We enclosed here with necessary documents in connection with our products for favor of you arranging to incorporate our products in the work schedule for various development projects under your good office.

With best regards

**(Engr. T.M Shohabul Haque)**

Quality Control Engineer.

Mobile: 01711-245397

**"We have to protect our environment & protect our people."**



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### Compare Between 100 mm Hollow Block & Clay Brick.



| Product                      | 100 mm Concrete Block              | Conventional Clay Brick                |
|------------------------------|------------------------------------|----------------------------------------|
| Size                         | (390 x 190 x 100)mm                | (240 x 112 x 70) mm                    |
| Number                       | 01 nos                             | 04 nos                                 |
| Weight                       | 11 kg                              | 04 x 3 kg = 12 kg                      |
| Price                        | 35 tk                              | 04 x 10 tk = 40 tk                     |
| Required for 1 sft (5" Wall) | 1.13 nos                           | 4.6 nos                                |
| Required 100 sft (5" Wall)   | 113 nos                            | 450-460 nos                            |
| Strength                     | 10-15 Mpa                          | 13-34 Mpa                              |
| Water absorption             | 2.22% to 4.84%                     | 12.60% to 20.55%                       |
| Temperature Differences      | 3 <sup>0</sup> to 6 <sup>0</sup> c | 1.1 <sup>0</sup> to 2.3 <sup>0</sup> c |
| Sound Level Differences      | 6 to 11 dB                         | 2 to 4 dB                              |
| CO <sub>2</sub> Emissions    | 1.3 kg                             | (0.55 kg x 4 nos) =2.2 kg              |

### Savings for 100 sft Walling materials:

| Products           | 100 mm H/B                                                                | Clay Brick                 | Save            |
|--------------------|---------------------------------------------------------------------------|----------------------------|-----------------|
| Weight             | 113 x 11 = 1,243 kg                                                       | 460 x 3 = 1,380 kg         | 137 kg          |
| Price              | 113 x @ tk 35 = 3,955/-                                                   | 460 x @ tk 10 = 4,600 /-   | 645 tk          |
| Mortar Joint (1:5) | 4 cft                                                                     | 15 cft                     | 11 cft          |
| Cement             | 1 bag = 400/-                                                             | 2.5 bags =1000/-           | 1.5 bag = 600/- |
| Sand               | 3.5 cft @ 10/- = 35/-                                                     | 12 cft @ 10 /- = 120/-     | 8.5 cft = 85/-  |
| Plastering         | Surface is very smooth.<br>So, there is no problem<br>without plastering. | Plaster must be necessary. |                 |

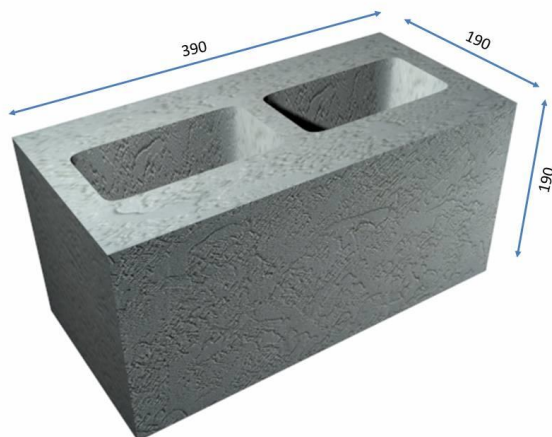
- Per 100 sft Weight save for partition wall= 137 kg & cost save 1,330 tk.
- The weight per rft of HCB Partition wall is 39.5% lower than CCB partition wall.
- House construction cost using HCB was 23-25% lower compared to the same for CCB.



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### Compare Between 190 mm Hollow Block & Clay Brick.



| Product                     | 190 mm Concrete Block              | Conventional Clay Brick                |
|-----------------------------|------------------------------------|----------------------------------------|
| Size                        | (390 x 190 x 190)mm                | (240 x 112 x 70) mm                    |
| Number                      | 01 nos                             | 7.5 nos                                |
| Weight                      | 16 kg                              | 7.5 x 3 kg = 22.5 kg                   |
| Price                       | 60 tk                              | 7.5 x 10 tk = 75 tk                    |
| Required 100 sft (10" Wall) | 113 nos                            | 1000 nos                               |
| Strength                    | 10-15 Mpa                          | 13-34 Mpa                              |
| Water absorption            | 2.22% to 4.84%                     | 12.60% to 20.55%                       |
| Temperature Differences     | 5 <sup>0</sup> to 9 <sup>0</sup> c | 1.1 <sup>0</sup> to 2.3 <sup>0</sup> c |
| Sound Level Differences     | 10 to 15 dB                        | 2 to 4 dB                              |
| CO <sub>2</sub> Emissions   | 2 kg                               | (0.55 kg x 7.5 nos) = 4.12 kg          |

### Savings for 100 sft Walling materials:

| Products           | 190 mm H/B                                                          | Clay Brick                 | Save             |
|--------------------|---------------------------------------------------------------------|----------------------------|------------------|
| Weight             | 113 x 16 = 1,808 kg                                                 | 1000 x 3 = 3,000 kg        | 1,192 kg         |
| Price              | 113 x @ tk 60 = 6,780/-                                             | 1000 x @ tk 10 = 10,000 /- | 3,220 tk         |
| Mortar Joint (1:5) | 8 cft                                                               | 30 cft                     | 22 cft           |
| Cement             | 1.5 bag @ tk 400 = 600 tk.                                          | 5 bag @ tk 400 = 2000 tk   | 3 bag = 1400 tk  |
| Sand               | 7 cft @ tk 10 = 70 tk                                               | 24 cft @ tk 10 = 240 tk.   | 17 cft = 170 tk. |
| Plastering         | Surface is very smooth. So, there is no problem without plastering. | Plaster must be necessary. |                  |

- Per 100 sft Weight save for partition wall= 1,192 kg & cost save 4,790 tk.
- The weight per rft of HCB Partition wall is 42-47% lower than CCB partition wall.
- House construction cost using HCB was 35-39% lower compared to the same for CCB.