



GREEN BUILDING CENTRE

BRICKS & BLOCKS

ACC
cement

S.N.	PARAMETERS	RED BRICKS	RESULT	ACC CONCRETE BRICKS	RESULT
1	STRENGTH (मज़बूती)	40-105 kg/cms	Cracks on walls, no load bearing walls.	120 -150 kg/cms	No cracks and also can be used as a load bearing walls
2	SHAPE & SIZE (आकार और माप)	Irregular & Non Uniform	Increased no of bricks ,cost of Labour ,Plaster , Mortar, POP	400X200X200 Mm (16''X8''X8'' Inch) As Per Is Code - 12894:2002	Saving In Labour, Plaster , Mortar, POP, Putty
3	DAMPNESS (नमी)	Yes	Due to porous property , Removal of Putty , Paint & weakens Structure	No	High compression and vibrating brick makes long life of Structure
4	WATER ABSORPTION (पानी का सोखना)	20 - 35 %	Never Ending Dampness , Less Mortar Bonding	< 7 %	No Dampness And Long Lasting Bonding
5	EFFLORESCENCE AND SALINITY (फूलना और खारापन)	Yes	Powdery deposit of salts which forms on the surface and remove Putty and paint	No	Long life of Paint and Putty
6	BREAKAGE (टटना)	15 - 20%	High Cost, Wastage	1 - 2%	Cost effective
7	COLOUR FROM BRICKS (ईंटों से रंग निकलाना)	Yes	Less bonding with paint and putty	No	Long lasting bonding
8	NUMBER OF BRICKS FOR 1 SQ.FT. WALL OF 9" THICKNESS (1 वर्ग के लिए ईंटों की संख्या। 9" मोटाई की दीवार)	11 No. Of Bricks	Extra Rs. 13 per sq. ft	10 No. of Bricks	Saving Rs. 13 per sq. ft.
9	PLASTER WORK (प्लास्टर कार्य)	Required	Extra cost of Rs 20 per sq. ft	Not required	It can be used without Plaster and directly used putty on walls Saving Rs 400 (40 kg Cement), Rs 176 (4 Cu. ft sand) and Rs 1500 saving in labour Total Saving Rs. 2076
10	CEMENT AND SAND CONSUMPTION FOR MORTAR (सीमेंट और रेत की खपत)		Bricks work of 1000 Red Bricks requires 40 Kgs of Cement and Sand	It Saves 20% Cement and sand	
11	MORTAR THICKNESS REQUIREMENT (मोर्टार मोटाई की आवश्यकता)	15 - 18 MM		3 - 8 MM	
12	CONSTRUCTION SPEED (काम की गति)	Slow		Very fast	
13	ENVIRONMENTAL POLLUTION (पर्यावरण प्रदूषण)	Yes	High environmental pollution	No	Acc concrete bricks create zero pollution
14	GOVT. POLICY (सरकार की नीति)		The Supreme Court India has purposed to ban the use of red bricks pan India		The Supreme Court India and National Green Tribunal rulings mandate the use of cement bricks in Govt. projects This will also apply to large Institution like the MES
15	OVERALL COST SAVINGS (कुल लागत बचत)	Nil		Overall 36% Cost Saving	Overall aprox. savings of Rs. 4.00 saving per brick Breakage = Rs 0.50 Plaster = Rs. 2.00 Mortar = Rs. 0.50 Shape & Size = Rs 1.00