## DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING

(PLAIN REGION)







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# DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING

(PLAIN REGION)

COMPOSED BY



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### **FOREWORD**

Over the past half century, a great rural-to-urban population shift has occurred and the process of urbanization (the concentration of people and activities into areas classified as urban) is set to continue well in this century. The high pace of social and economic development has led to the growth of urban population. Lack of infrastructure, congested traffic, environmental degradation and most prominently housing shortage have become the major issues faced by cities and towns.

The purpose of this catalogue is to introduce design standards and specifications for sustainable affordable housing in the coastal regions of India in order to facilitate the state agencies in planning and construction.

The design standards developed in this catalogue cater to three categories from the economic stand point i.e. Economically Weaker Section (EWS) with carpet area within 21-27 sq.mt, Lower Income Group-A (LIG-A) with carpet area within 28-40 sq.mt. and Lower Income Group-B (LIG-B) with carpet area within 41-60 sq.mt. in Indian plains. Besides the economic criteria, the designs are inspired from the vernacular styles of architecture suiting the geo-climatic condition and mainstream aspects of disaster resilience and low carbon construction. The proposed designs will aim to standardize spaces and sizes of various low carbon construction elements and components keeping in mind the minimum National Building Code (NBC) norms.

The designs incorporate green concepts, innovative technology and building materials including prefab technologies and provisions for rain water harvesting and water conservation technologies, plumbing, water supply sewerage system, electrification and renewable energy technologies. Design for both individual units and cluster units are part of the catalogue.

We hope these designs help state agencies and developers in mainstreaming innovative green practices in affordable housing.





## **ACKNOWLEDGEMENT**

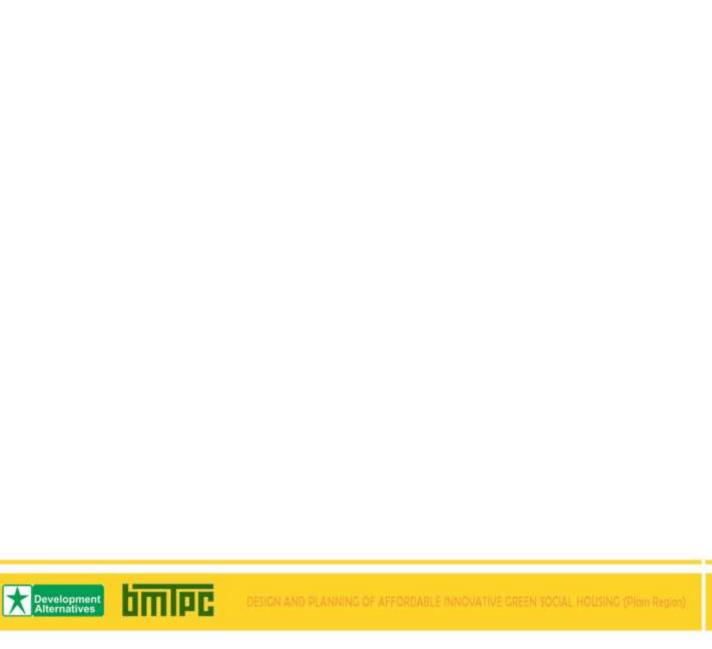
Development Alternatives gratefully acknowledges the important contribution and would like to convey thanks to Mr J.K. Prasad and the Building Materials and Technology Promotion Council (BMTPC) for their great support and guidance without which it would not have been possible to develop this catalogue. They have always been very responsive in providing necessary information.

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#### Introduction

#### **Impending Housing Shortage in Urban India**

India's urban population registered a decadal growth of 32 per cent rising from 285 million to 377 million between 2001 and 2011<sup>1</sup>. It is opined that this trend is likely to persist on the back of robust economic development across the country. By 2050, 900 million people will be added to Indian cities<sup>2</sup>. The rapid pace of urbanisation owing to the rural–urban migration is putting a strain on the urban infrastructure in these cities.

Growing concentrations of people in urban areas has resulted in an increase in the number of people living in slums and squatter settlements. Skyrocketing prices of land and real estate in urban areas have induced the poor and the economically weaker sections of the society to occupy marginal lands typified by poor housing stock, congestion and obsolescence. There are nearly one million households living in non-serviceable katcha houses, while over half a million households are in homeless condition<sup>3</sup>.

As urban development takes place, a growing concern for India's urban planners is the massive urban housing shortage plaguing the country. The housing shortage in the urban areas has touched 18.78 million units, where 95% of the shortage is prominent within the EWS (economically weaker sections) and LIG (lower income groups), and an estimation done on Urban Housing Shortage<sup>4</sup>.

#### Affordable Housing: A Big Challenge

Given this scenario, it becomes critical to fill the existing gaps in the country's strained urban infrastructure and in particular, housing. Primarily, it would be important to address the need in the EWS and LIG. Ten Indian States contribute to

three-fourths of the urban housing shortage<sup>5</sup>. Out of these states Tamil Nadu, Andhra Pradesh and West Bengal are from coastal region; Uttar Pradesh & Bihar are from central plains region. By providing affordable housing, the real estate sector can play a pivotal role in urban development of these states as well as the country<sup>6</sup>.

Encouraging the role of the private sector in affordable housing; that has been traditionally reviewed as the Government's responsibility, is an interesting policy movement observed recently.

Meeting affordable housing targets needs coordinated action between stakeholders from the public and private sector. The Government needs to play a proactive and facilitatory role to promote innovation and sustainability. The private sector needs to embrace low cost appropriate technology and material options that enable affordable, quality and timely delivery.

#### **Approach to Housing Development**

The broad elements of the approach of the Government of India to tackle the problem of housing the poor are: special programmes/targeted subsidy to the poor and vulnerable groups, loan assistance governmental agencies/beneficiaries at belowmarket interest rate for housing through the Housing and Urban Development Corporation (HUDCO), creation of housing assets as part of employment and income generation programmes, promotion of cost-effective and eco-friendly building materials and technologies and creation of an enabling environment for private sector initiative. Apart from housing schemes at national level, there are also housing schemes being practiced at state level.

#### i) National Urban Housing & Habitat Policy 2007

The National Urban Housing & Habitat Policy, 2007 seeks to set in motion a process in providing 'Affordable Housing for All' particularly the Economically Weaker Sections (EWS) and Low





<sup>&</sup>lt;sup>1</sup>2011, Census of India, http://censusindia.gov.in/2011-provresults/indiaatglance.html

<sup>&</sup>lt;sup>2</sup> October 2011, Urban Infrastructure in India, Federation of Indian Chambers of Commerce and Industry, FICCI

<sup>&</sup>lt;sup>3</sup> September 2012, Report of the Technical Urban Group (TG-12) on Urban Housing Shortage 2012-17, Ministry of Housing and Urban Poverty Alleviation

<sup>&</sup>lt;sup>4</sup> 2012, Report on urban housing shortage, Ministry of Housing and Urban Poverty Alleviation, Government of India.

<sup>&</sup>lt;sup>5</sup> 2012, Report on Bridging the Urban Housing Shortage in India, KPMG International

bid [3]

## **INTRODUCTION**

Income Group (LIG). The policy advocates measures for promotion of sustainable development of habitat in the country with a view to ensuring equitable supply of land, shelter and services at affordable prices to all sections of society. However, 'Land' and 'Colonisation' being State subjects, it is primarily the responsibility of State Governments to take follow up measures in pursuance of the policy advocacy.

## ii) Jawaharlal Nehru National Urban Renewal Mission (JNNURM) 2005

It was launched in December 2005 with aim to cover construction of 1.5 m houses for urban poor during the Mission period (2005- 2012)<sup>7</sup>.It had two Sub-Missions:

#### • Basic Services for the Urban Poor (BSUP)

It seeks to provide seven entitlements/ services - security of tenure, affordable housing, water, sanitation, health, education and social security in low income segments in the 65 Mission Cities.

## • The Integrated Housing and Slum Development Programme (IHSDP)

It seeks to provide the above mentioned 7 entitlements, services in towns/cities other than the Mission Cities.

#### iii) Rajiv Awas Yojana (2013-2022)

RAY was implemented in a mission mode to provide financial support to States/UTs/Urban Local Bodies (ULBs)/Central Government Agencies, hereafter called implementing agencies, for providing housing and improvement of basic civic infrastructure and social amenities in each selected slums. Rental and transit housing was admissible under the scheme. Operation and maintenance (O&M) of assets created under this scheme was eligible for funding.

RAY also extended financial support to States for creation of affordable housing stock through public-private partnership (PPP) under the Affordable Housing in Partnership (AHP) component of the scheme. It was applicable to "urbanized villages" inside the planning area of the city, urban homeless and pavement dwellers.

#### The Rajiv Rinn Yojna 2013

A Revised Interest Subsidy Scheme was an additional instrument for addressing the housing needs of the EWS/LIG segments in urban areas. The Scheme envisaged the provision of a fixed interest subsidy of 5% (500 basis points) on interest charged on the admissible loan amount to EWS and LIG segments to enable them to buy or construct a new house or for carrying out addition (of a room/ kitchen/ toilet/ bathroom) to the existing building<sup>8</sup>.

## iv) Interest Subsidy Scheme for Housing the Urban Poor (ISHUP) 2009

It has sought to enhance affordability of the urban poor through the provision of an interest subsidy of five per cent per annum on a loan amount of up to 1 lakh for the economically weaker sections and lower income groups in the urban areas for acquisition/construction houses. The Government has also launched a scheme of Affordable Housing in 355 Partnership with an outlay of 5,000 crore for construction of one million houses for EWS/LIG/MIG with at least 25 per cent for EWS category<sup>9</sup>. The Scheme aims at partnership between various Government / Urban Local Bodies/ developers for realizing the goal of affordable housing for all.

## v) Andhra Pradesh Model: Self-help & Mutual Help

The State of Andhra Pradesh is a pioneer in India in implementing innovative housing programmes for the poor on a large scale. Though the A.P. State Housing Corporation Limited (APSHCL) was established in 1979 to formulate, promote and execute housing schemes for the weaker sections of society, the Corporation has constructed about 3.62 million houses by 31.03.2000 out of which 2.4 million are in rural areas<sup>10</sup>. It ranked first in the country in the implementation of housing for the

<sup>10</sup>Idib [9





<sup>&</sup>lt;sup>7</sup> Accessed on 30<sup>th</sup> June 2014 National Building Organisation http://nbo.nic.in/Webforms/aboutus.html

<sup>&</sup>lt;sup>8</sup> 2013, Report on Trend and Progress of Housing in India, National Housing Bank.

<sup>&</sup>lt;sup>9</sup> Accessed on 30<sup>th</sup> June 2014 National Building Organisation http://nbo.nic.in/Webforms/aboutus.html

## 1 INTRODUCTION

poor in rural areas from the year 1991–92	
onwards.	
Households with an annual income of Rs.13, 000	
or less are eligible for sanction of houses under	
various schemes from 1996–97 onwards. 50% of	
the houses are earmarked for Scheduled Castes	
and Scheduled Tribes, 33% for Backward Castes,	
7% for Minorities and the remaining 10% for other Economically Weaker Sections <sup>11</sup> . The funding of	
the housing programme includes subsidy from the	
Government and loan from various financial	
institutions for the repayment of which the	
Government stands guarantee irrespective of the	
ultimate recovery from beneficiaries. Loans are mobilised from HUDCO, Life Insurance	
mobilised from HUDCO, Life Insurance Corporation, General Insurance Corporation and	
Commercial Banks.	
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 $<sup>^{\</sup>rm 11} \rm Accessed$  on 30  $^{\rm th}$  June 2014 National Building Organisation http://nbo.nic.in/Webforms/aboutus.html

#### Context

The climate is changing. With global warming on the increase and species and their habitats on decrease, chances of ecosystem to adapt naturally are diminishing. Climate change may be one of the greatest threats facing the planet.

#### **Impact of Construction Sector on Climate Change**

The building and construction sector is a key contributor to the phenomenon to climate change. The built environment accounts for a large share of energy use (with associated greenhouse gas emissions), waste generation and use of natural resources. Areas of key concern also include production of construction materials, use and recycling, consumption of hazardous materials, integration of building materials with other infrastructure and social systems, water use and discharge, etc. The construction industry is estimated to be responsible for around 24 per cent of the total carbon emissions nationally 12. Buildings are responsible for large shares of resources use and waste generation: approximately 40 per cent of materials use, 30 per cent of solid waste generation, and 20 per cent of water use<sup>13</sup>. The materials and technologies used in buildings also have a significant impact on their users' health and well-being.

#### **Impact of Climate Change on Construction Sector**

Construction of buildings should be designed for future climate change. Buildings can be vulnerable to climate change. The weather related impacts like flooding, coastal erosion, subsidence, drainage systems has reflected to requirement of new building techniques and withstand adverse materials to conditions which also influence the choice of site. Higher groundwater levels, higher water levels in streams and watercourses, and greater risk of storm surges along the coastline, make it pertinent to safeguard buildings against seepage and flooding.

The sheer scale of construction activities required to bridge the housing gap will place immense pressure on the environment. Current building practices are highly resource intensive. This huge volume of housing to be constructed, especially in the affordable sector can have a huge role in this direction towards lowering carbon emissions. Existing cleaner technologies could substantially reduce the ecological footprint of the housing sector. It has been seen that typically a house made using appropriate technologies has the potential to reduce at least 25 per cent of energy input itself, which can prove to be a tipping point, considering the scale of construction <sup>14</sup>.

#### **Sustainability in Construction**

There is an increasing recognition of the need for inclusion of sustainability concerns in the construction and building sector. A new chapter titled 'Approach to Sustainability' is being added to the National Building Code to provide required guidance with respect to all relevant aspects involved during planning, design, construction, operation and maintenance of buildings. The National Mission on Sustainable Habitat under the efficiency in buildings, management of solid waste and shift to public transport. Green building rating mechanisms like GRIHA and LEED are being increasingly used.

Therefore, green and sustainability aspects are often associated with higher initial cost that developers do not want to bear as the eventual benefits that pass on to the clients are not qualified and appreciated enough to justify the investment. Many stakeholders in governments and market believe it is a concept better suited to commercial buildings and luxury high-end housing. There is also a lack of acceptance of alternate resource efficient materials and technologies from the user end. The beneficiaries often come from the construction sector, and have a high level of awareness in business as usual practices.

Integration of sustainability aspects in affordable housing can no longer be neglected. With growing





 <sup>&</sup>lt;sup>12</sup> J Parikh, April 2009, CO2 emissions structure of Indian economy
 <sup>13</sup> July 2010, Report on Affordable Housing in the Context of

Sustainable Habitat, Research done by Development Alternatives

<sup>&</sup>lt;sup>14</sup> Ibid [13]

demand for housing and the increasing pressure	
the sector exerts on the resource base it is	
imperative to take immediate action. Continuing	
on a business as usual path is no longer an option	
and there is need for transformative change to be	
brought about.	
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#### Scope

#### **Indian Central Plains Region**

The Northern Plain was formed by the deposits brought in by the three major rivers (Indus, Ganga & Brahmaputra) and their tributaries.

This Northern Plain region is one of the mostly dense populated areas in the world due to its fertile soil and availability of water. All rivers of these plain are characterized by narrow channel confined within wide valley. Continuously increasing pressure of population on this plain has led to the intensification of settlement even into the valley of the river. This unplanned expansion has enhanced the damage due to flooding during high discharge period and lateral erosion during low-discharge period.

Flooding and lateral erosion are identified as fluvial hazards in the Ghaghara River area. Extensive studies have been carried out on flooding, but not much attention has been paid to the phenomenon of lateral erosion. However, it has been observed that lateral erosion is an independent fluvial hazard that operates during low-discharge period. The other disasters which prevail in these plains are earthquake, avalanches, flash floods, etc.

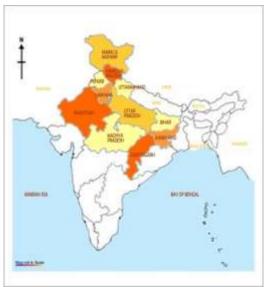


Figure 1 COASTAL STATES OF INDIA

Magnitude and risk of disasters are directly proportional to the sensitivity and inversely

proportional to degree of resilience of exposed community. Understanding and assessing the risk is fundamental to enhancing the resilience of coastal communities<sup>15</sup>. The scale of vulnerability changes with individuals and households as it encompasses the response to risk, coping and potential to react and withstand a disaster.

The habitat plays a vital role in these areas in terms of social well-being as well as a barrier to the effects of natural hazards and disasters.

Below are some examples of disaster that affected in the northern plains -

#### 1. June 2013, Uttarakhand Flash Floods<sup>16</sup>

The flash floods triggered by very heavy rainfall and cloudburst in Uttarakhand on 16-17 June 2013, affected 12 out of the 13 districts in Uttarakhand.

The deluge has swept away mountainsides, villages and towns, thousands of people, animals, agricultural fields, irrigation canals, domestic water sources, dams, roads, bridges, and buildings — anything that stood in the way. A state loss of INR 30,000 million was estimated. The disaster has crippled the lives and livelihoods of a very large number of impoverished, rural people, with an estimated 20, 36,000 people affected across nearly 40,000 sq. miles area.



Figure 2: 2013 UTTARAKHAND FLASH FLOODS

http://economictimes.indiatimes.com/slideshows/nation-world/the-infrastructural-damage-caused-by-uttarakhand-flash-floods/slideshow/20698376.cms





<sup>&</sup>lt;sup>15</sup> 2007, Asian Disaster Preparedness Centre (APDC)

<sup>&</sup>lt;sup>16</sup> 21 Jun, 2013, The infrastructural damage caused by Uttarakhand flash floods, The Economic Times,

#### 2. October 2005, Kashmir Earthquake<sup>17</sup>

The earthquake was centered at Pakistan administered Kashmir near the city of muzaffarabad. It registered a moment magnitude of 7.6.

The quake destroyed 1,500 houses in Uri, affecting about 90% of the families in the town of 30,000. More than 1,100 houses had been flattened in Jammu and Kashmir. The main minaret of the Hazratbal shrine, believed to house a relic of the prophet Muhammad, suffered damage. The 200-year-old Moti Mahal fort in Poonch district, Kashmir, collapsed.

Buildings in Delhi and Amritsar experienced damage, and tremors caused panic in Gujarat. People in Uttar Pradesh, Uttaranchal, Himachal Pradesh, Rajasthan, and Madhya Pradesh felt the tremors. Over 1300 died.



Figure 3: 2005 KASHMIR EARTHQUAKES

#### 3. August 2008, B ihar Flood<sup>18</sup>

A breach in the Kosi embankment near the Indo-Nepal border occurred on 18 August 2008. The river changed course and inundated areas which hadn't experienced floods in many decades. The flood affected over 2.3 million people in the northern part of Bihar.

According to GoB figures, 236,632 houses were fully or partially destroyed across the districts. The estimated damage is Rs. 5,935 million. About 1800 kilometres of paved and unpaved roads and about 1100 bridges and culverts were destroyed in the floods.



Figure 4: 2008 BIHAR FLOODS

Increase of perilous construction practices has been emerged due to:

#### Improper location

Siting of settlements on irregular terrain and loose soil can affect the overall stability of the building.

#### • Faulty design

Long walls between the column and more number of openings can make a building vulnerable to disaster.

#### Use of poor quality materials

Use of substandard materials and materials which are less durable can also affect the strength of the building.

#### Sub- standard construction practices

Lack of awareness about the construction practices for vulnerable area can affect the structure.

#### Non-compliance with building codes

Design practices being practiced without following the design codes and standards will hamper the design.

#### • Lack of awareness-

- Safe construction practices





<sup>&</sup>lt;sup>17</sup> 13<sup>th</sup>October, 2005, The Kashmir's Earthquake, The Economist, http://www.economist.com/node/5019793

<sup>&</sup>lt;sup>18</sup> June 2010, Bihar Kosi Flood (2008) Needs Assessment Report, Global Facility for Disaster Reduction & Recovery, https://www.qfdrr.org/sites/qfdrr.org/files/publication/GFDRR India PDNA 2010 EN.pdf

- Disaster resistant practices	
The quality and methodology of construction is	
very important. Usually the most vulnerable parts of a building are: too high and long walls, openings too close to corners, use of cut lintels	
and deficient bond at corners, and differential settlement due to soft soil.	
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#### **Strategic Approach**

#### **Design Considerations at Planning Stage**

Design being an evolutionary process, proper implementation is very important at all stages of designing. The key factors that govern design in coastal regions include-

#### 1. Climate Requirements

#### a) Thermal Comfort

The climate of coastal region being hot, dry & windy, thus for maximum cross air ventilation, openings have been provided at diagonal/opposite walls. For this the overall form is linear in most options. Louvered ventilators have been provided for permanent ventilation.

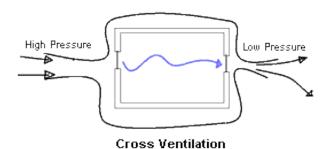


Figure 5: CROSS VENTILATION

#### b) To Avoid Heat Gain

Hollow/ cavity wall in most options has been induced by the rat-trap masonry bond which will provide insulation from high temperatures in summer. And for protection from direct sunlight and rain, chajjas are also incorporated in the design option. Light weight roof will also impact the overall heat gain.

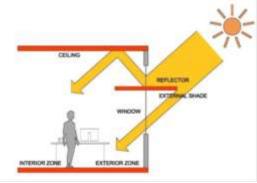


Figure 6: DAYLIGHTING

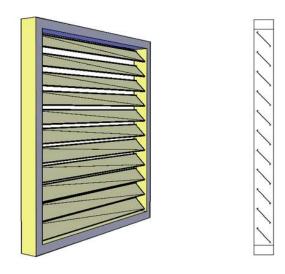


Figure 7: VENTILATION WITH LOUVERS

## 2. Safety Measures for Earthquake Zone and Flooding

The clustering has been done keeping in mind that minimum is the number of units in a cluster; the minimum is the overall damage and the clustering arrangement are not linear.

The most vulnerable area i.e. the openings are carefully designed such that they are not wide enough or have big panels and also they are not placed near the wall joints so that they do not harm the strength of the wall. Further, the roof of veranda is taken as a separate roof to minimise the disruption.

#### 3. Functional Requirement

The spaces designed are optimised enough by determining the different functional and psychological aspects of the user. Also spaces have flexible usability as per the user's requirement.

#### 4. Minimising of cost

The cost factor has been significantly lowered by minimising the use of additional architectural elements which have only aesthetic purpose, by standardisation of size of doors and windows and by use of locally available materials. Above these provisions, the one factor that counts much is that the time taken for constructing these units are comparatively lesser than traditional method of construction.





## Technology Considerations at the Construction Stage

Alternate building materials, like micro-concrete roofing tiles, stabilised earth blocks are available to replace materials with a higher carbon footprint, which are traditionally used. Whereas incorporating pre-fabricated plank and joist roofing, Ferro cement pre-cast arch panels, etc. significantly lowers the construction cost.

Another aspect is the usage of industrial waste like fly ash for construction. The ecological advantages are twofold, it utilises an industrial waste and prevents the usage of potentially fertile agricultural land. Fly ash bricks remove the need for plastering. Unbaked MCR tiles are a great replacement to high energy asbestos sheeting and Mangalore tiles can save up to 46 per cent energy.

#### a) Foundation Design

In flood prone areas, where a building is constructed on stilts it is necessary that stilts are properly braced in both the principal directions. This will provide stability to the complete building under lateral loads. Depending on the soil type, the foundations to be used are:

- Slab or raft foundation: On soft soils. It spreads the weight over a wider area.
- Strip foundation: On varying soil.
- Stepped foundation: On sloping ground.
- Pad foundation: On firm soil
- Pile foundation: In expansive clay or alluvial soils.

#### b) Walling Techniques

#### i) Compressed Earth Blocks Wall

Earth is compressed in a manual press to form high strength blocks. Compaction of soil increases its compressive strength and hence its capacity to carry load. Resistance to water is provided by stabilising with cement or lime which increases resistance to erosion.

Soil block enable rapid construction as well as it can be made locally.



Figure 8: COMPRESSED EARTH BLOCKS

#### ii) FAL G Bricks

FAL G is named after its ingredients Fly Ash, Lime and Gypsum. These ingredients are dry mixed first and then mixed with water. This mixture is then hydraulically compressed in machine moulds and is left for drying for 1-2 days. It is then cured in water for 14 days, thus avoiding need for firing or steam firing of bricks.

In some places where availability of lime is not there or the prices are high, sludge lime or cement is found as suitable replacement for lime.

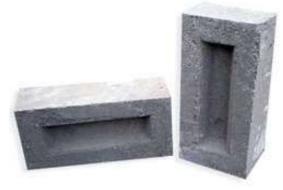


Figure 9: FAL G BRICKS

#### iii) Laterite Blocks

Laterite stone have traditionally used after directly extraction from the naturally occurring laterite sources, after which they are cut into brick-like shapes for use as walling units. Recently, there has been advancement in using laterite in the form of interlocking bricks used to construct walls without the use of cement mortar. Laterite stone is ground and filtered using a sieve, which is then mixed with 5% cement mixture and a chemical setting agent. This mixture is then machine compressed to form high density





interlocking bricks. They are manufactured in two widths of 6 inches and 8 inches; and are also available in varying lengths. Each interlocking brick has grooves and locks on its sides which can be fitted with each other to form a block wall that does not need cement mortar for bonding.

These have high recyclability factor— especially in case of interlocking blocks which don't use connecting mortar is a bonus.



Figure 10: LATERITE BLOCKS

#### iv) Rat-trap Masonry

Usage of Rat-trap bond for wall masonry which incorporates a cavity within the 9" wall thickness reduces the brick requirement by 20 per cent per cubic meter of wall. This reduces the overall load of the superstructure on the foundation, resulting in savings due to optimised foundation design as well. Similarly, mortar requirement is reduced by 20 per cent (as compares to conventional English Bond) for a 1:4 cement-sand mortar. The exposed brickwork has led to 15 per cent of overall cost reduction.

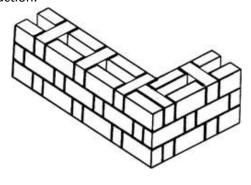


Figure 11: RAT-TRAP MASONRY BOND

#### c) Roofing Technique

#### i) Micro Concrete Tile Roofing

It is a roofing tile made of cement mortar vibrated on a table at a controlled frequency and set on mould to shape. The mortar used is a mix of concrete, fine sand, coarse sand and fine aggregate. Care is needed at all stages of production to secure quality of the tile. They provide greater flexibility with uneven under structure in comparison with A.C.C. sheets.

These tiles are water proof, fire proof and insect proof. Hence they are durable than thatch roofs. They also provide a durable, low-cost and thermally most satisfactory option than A.C.C. sheets. It can be manufactured locally with low capital investment using local materials and cement.



**Figure 12: MICRO CONCRETE ROOFING TILES** 

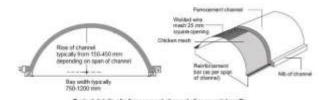
#### ii) Pre-cast Ferro Cement Roofing Channels

A Ferro cement roof channel is a longitudinal element, semi -cylindrical shaped. It is easy to construct, uses less cement and steel than a conventional RCC roof with a corresponding reduction in self-weight and is also cheaper .During the installation process the roof channel is lifted into place and can immediately be joined together. This technique requires neither scaffolding or shuttering, nor a concrete mixer or a vibrator.

This technique consist of making a mud mould on which the Ferro cement roof channel is cast, left overnight, de-moulded within the next few days, cured and finally installed and joined at the required site.







**Figure 13: FERRO CEMENT ROOFING CHANNEL** 

#### iii) Filler Slab

Filler slab technology is a simple and a very innovative technology for a slab construction. This is one such cost effective roofing system which is based on the concrete portions and instead placing filler material there.

An internal cavity can be provided between the filler material which adds an extra advantage; other than cost savings and energy savings; improved thermal comfort for the interiors. Also an added advantage of lower dead weight transferred to the supporting elements and finally onto the foundation to further adds cost saving in design of these elements.

These filler materials are so placed as not to compromise the structural strength, stability and durability, resulting in replacing unwanted and non-functional tension concrete, from below and thus resulting in economy of high energy material's, consumption and considerable cost saving and decreased dead load of the slab.



Figure 14: FILLER SLAB

Light weight, inert and inexpensive materials such as low grade Mangalore tiles, Burnt Clay Bricks,

Hollow Concrete blocks, Stabilized Mud blocks/ Hollow Mud blocks, Clay pots, Coconut shells etc. can be used as filler materials. These materials are laid in the grids of steel reinforcement rods and concreting/concrete topping is done over them.

## iv) Pre-cast Reinforced Cement Concrete (R.C.C.) plank and joist

This system consists of two main elements -

- 1. The plank which represents smaller sections of the slab and therefore of reduced thickness and reinforcement.
- 2. Joist which is a beam spanning across the room to provide bearing for the planks. The joist is partially precast, with the remaining portion being cast in-situ after the planks are installed.

The planks can be made in standard sizes of  $0.3m \times 1.5m$  and the joists can be  $0.15m \times 0.15m$  in size for a roof span up to 4 metres.

Plank and joist roof with three layered weather proof course have worked out to be 20 per cent cheaper than conventional RCC roof<sup>1</sup>. Minimum of two days is required for roof construction, including finishing the assembly of prefabricated components with screed concrete, saves at least 10 man-days per house in addition to savings on scaffolding and curing period of 21 days for each house, which amounts to further construction efficiencies<sup>2</sup>.



Figure 15: PRE-CAST RCC PLANK AND JOIST

#### v) Pre- cast arch panel system

The composite beam and panel roof is one such technique where beams and panels are pre-





fabricated and assembled in such a way that the assembly works as a single structural roofing system. Typically, the panels are placed on beams which are used along the smaller dimension of the roof and the two are joined together with connectors and in-situ concrete which binds the whole system. There are two types of panels which can be used in this system – Flat or Curved (arch profile). But here we have incorporated arch system. The thickness of panels depends on its material and its profile. Various combinations of materials for beams and panels are possible. While the beam can be made with steel, RCC or timber, the panels can be made with concrete, burnt clay bricks (or brick tiles) or stone.



Figure 16: PRE-CAST ARCH PANEL SYSTEM

#### d) Flooring Techniques

#### i) Terrazzo Tile Flooring

Terrazzo flooring is a flooring technique that combines pieces of aggregate (marble, glass or stone chips) with a cement binder. The formulation of the body mix is achieved by the careful calculation of dosages and the choice of bonding agents. This mix is then vibrated at a predetermined frequency, compacted using high pressure and then, and most importantly, all excess water and air is removed. The removal of water and air markedly reduces the porosity and the degree of absorption. This process increases enormously the mechanical-physical performance and allows for the formation of tiles. These tiles

are cost effective, long lasting, and easily replaceable with easy installation process.

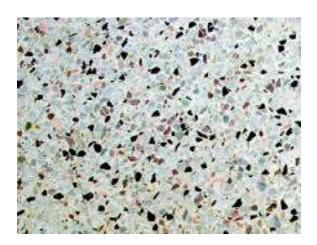


Figure 17: TERRAZZO FLOORING

#### ii) IPS Flooring

IPS flooring stands for Indian patent stone flooring; it is a basic type of flooring which provides good wearing properties. It is generally used for all types of floors and mix of concrete used for IPS flooring specification is 1:1.5:3 (cement, sand and stone aggregates).

As per the nature of use the flooring thickness of concrete is decided from 25 mm to 50 mm. It is laid over the concrete base (1:4:8), which is almost 3 to 4 inches thick plain cement concrete (PCC) base. For residential floor 75 mm floor thickness is sufficient.



Figure 18: IPS FLOORING

It is recommended to provide adequate slope in Plain cement concrete (PCC) in a base course as it





will not be possible to maintain slope in IPS layer due to limited thickness. Door frames should be fixed prior to flooring work

#### iii) Ceramic Tile Flooring

Ceramic tile flooring is a versatile architectural resource that can be employed in a variety of environments without having to worry about the constraints of water, stains and design. These are naturally resistant to the ravages of high humidity conditions and are extremely tough and are difficult to crack.



Figure 19: CERAMIC TILE FLOORING

The first and the foremost step in the manufacturing of ceramic tile floors is the formation of body slip by blending raw materials such as clay, feldspar, sand, dolomite, and quartz with 30% of water. After blending, it is grounded in a ball mill to get the body slip. Then it is put into a spray dryer and heated at high temperature. When it gets heated up, it is transformed into powder which contains moisture of about 6%. The powder is then compacted into dies through a press that operates at a pressure of several hundred pounds per square foot. The result of the pressure is a clay body, or bisque. This early stage in the ceramic tile floors manufacturing process will account for their durability later on. The bisque is now heated at high temperature by using natural gas. This removes the moisture from

the bisque. The strength and stability of the bisque (body of the ceramic tile floors) depend upon the raw materials and density.

#### iii) Damp Proof Membrane

The Damp Proof Membrane (DPM) must be installed in conjunction with the Damp Proof Course (DPC) in the outer walls so as to form a continuous layer. The surface should be clean and free from moisture before joining the sheets of the DPM. Overlapping of sheets by at least 4" to 6" (100 to 150 mm) with a help of a double sided butyl tape or mastic strip compound will form a continuous water proof barrier. The exposed overlap joints can then be sealed using 4" (100mm) jointing tape. If any area of the DPM is damaged during installation this should be patched by overlaying a fresh piece of DPM to cover the damaged area and to overlap by at least 6" (150mm) in all directions. Once again use double-sided mastic strip, or butyl tape to create a waterproof barrier, and then seal down the edges with jointing tape.



Figure 20: DAMP PROOF MEMBRANE





# Economically Weaker Section (EWS):

The carpet area of a dwelling unit-

21-27 sqm

Floor Area Ratio- 1.75





## **EWS INDIVIDUAL UNIT OPTION-A**

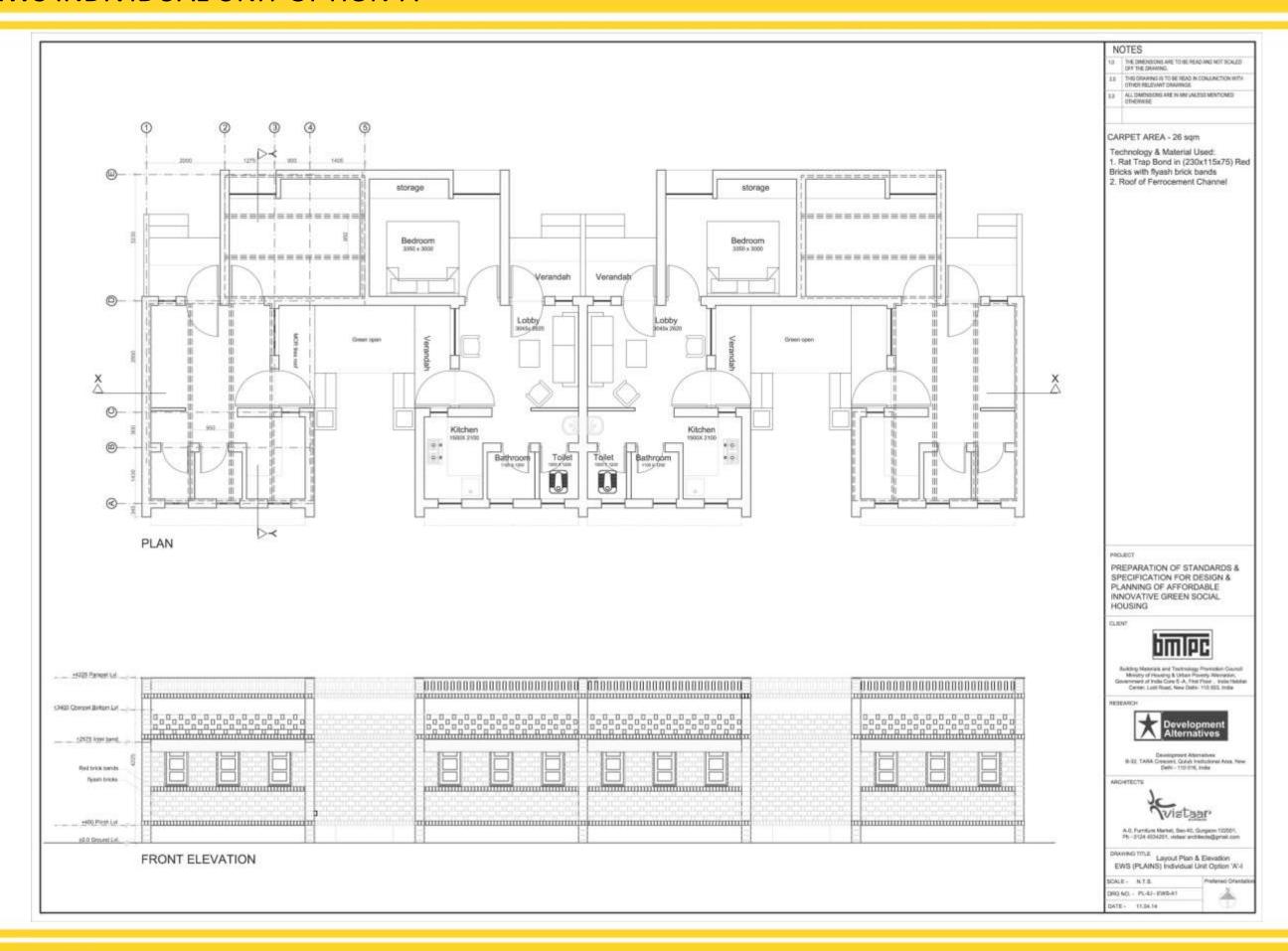
A significant proportion of space has been tailored according to the numbers and characteristic of expected residents. The housing unit is a 1 BHK typology with carpet area of 26 sqm. This housing unit is made accessible through a veranda leading to a lobby. The toilet and the bathing area are provided separately as common unit. The layout allows easily adaptable internal arrangements.

The roofing system over the unit is designed with Ferro cement channels. Brick work for the walls are done with a combination of red bricks and fly ash bricks laid in rat-trap bond finished with ruled pointing.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

The dwelling unit is designed so as to provide a flexible, adaptable and accessible environment to the users.









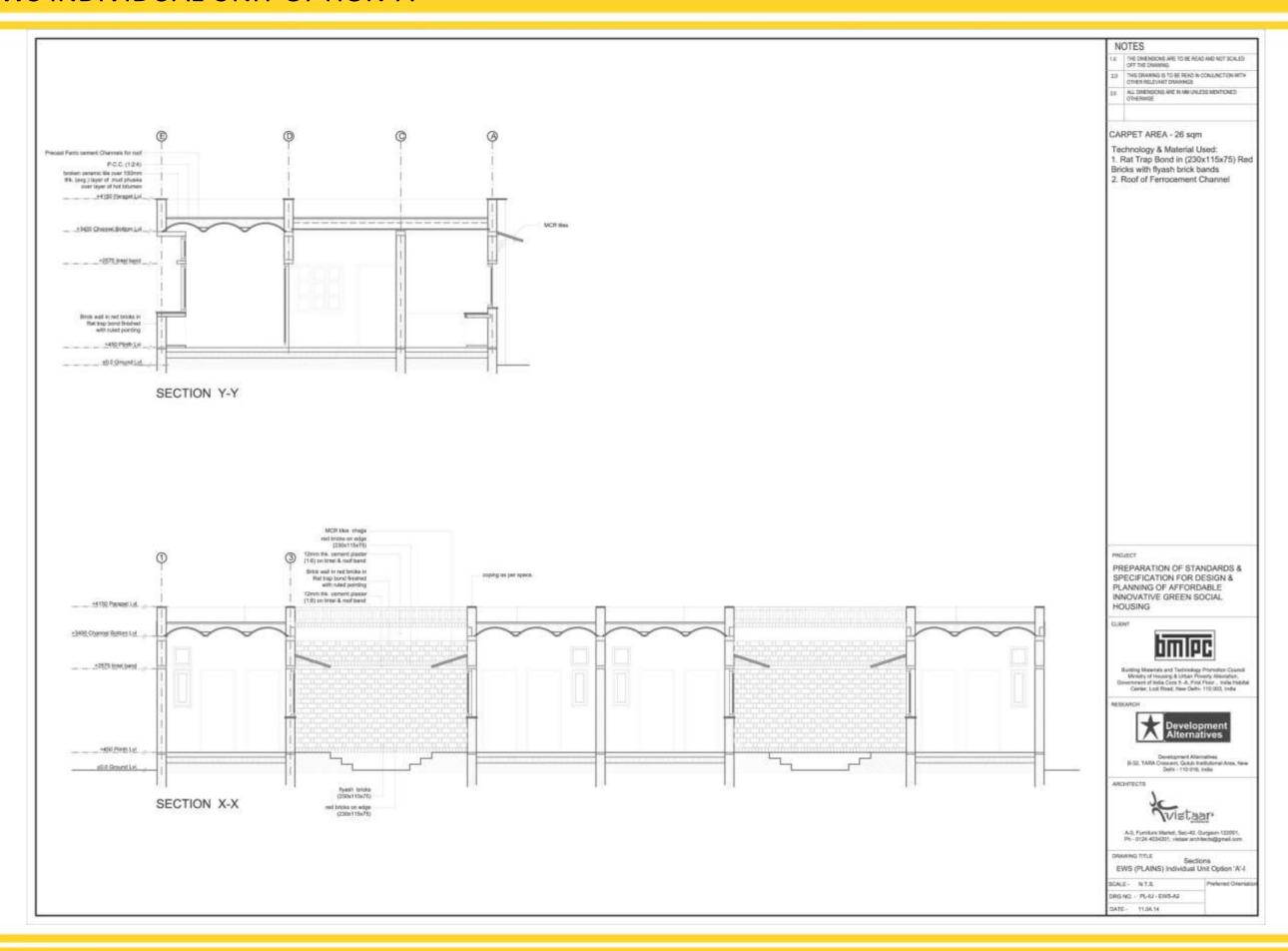








Figure 21: VIEW OF EWS INDIVIDUAL UNIT OPTION-A



Figure 22: STREET VIEW OF EWS INDIVIDUAL UNIT OPTION-A





## 5(b) EWS INDIVIDUAL UNIT OPTION-B

A significant proportion of space has been tailored according to the numbers and characteristic of expected residents. The unit is of 1 BHK typology with carpet area of 27 sqm. This housing unit is made accessible through a veranda leading to a lobby. The toilet and the bathing area are provided separately as common unit. The layout allows easily adaptable internal arrangements.

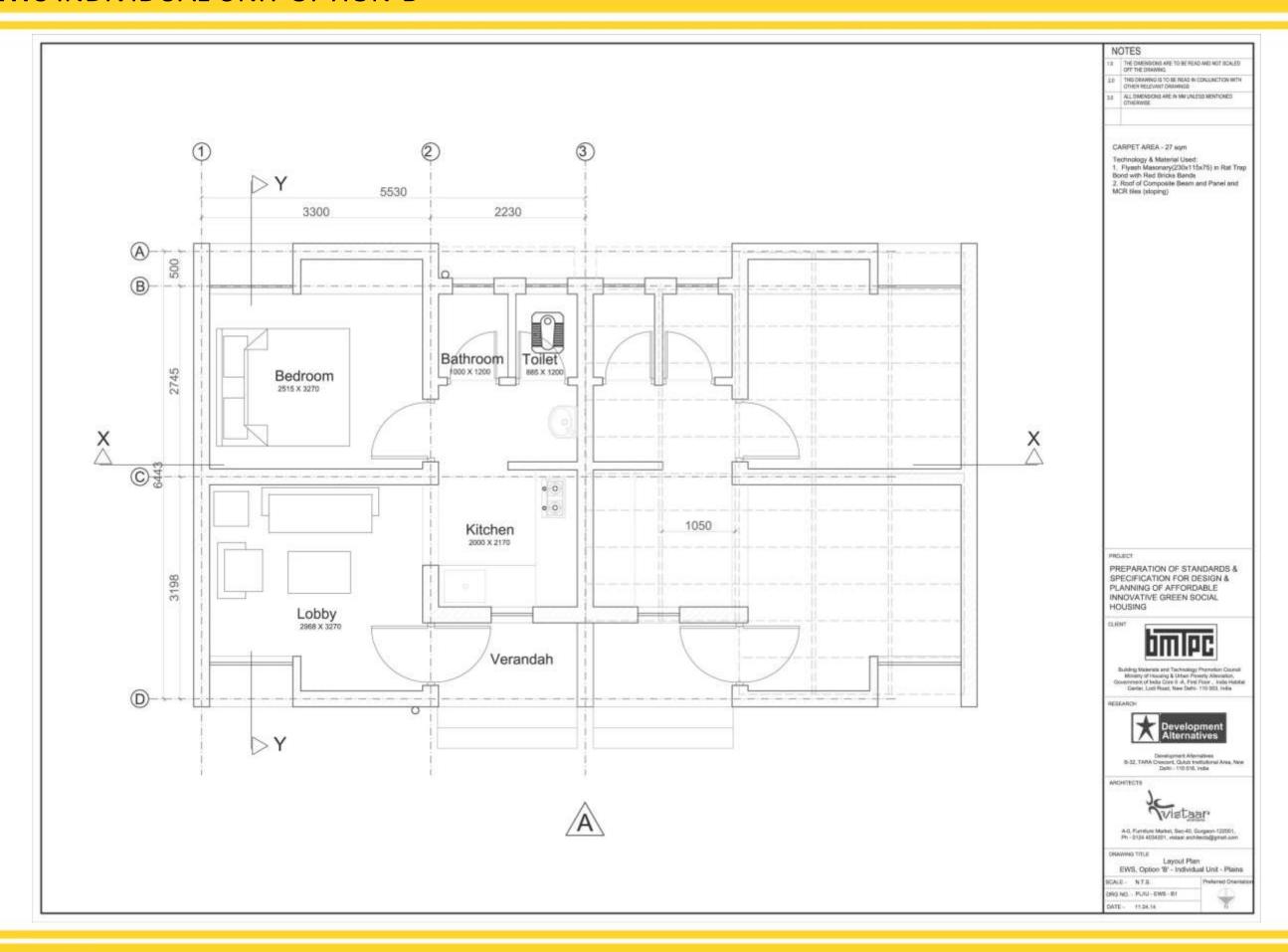
The brick masonry work for the super structure is done with a combination of Fly Ash and red bricks laid in rat- trap bond. Roofing system is composed of arch panel and beam technique which decreases the overall load on the foundation. The roofing for the veranda is done with micro concrete tiles.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

The dwelling unit is designed so as to provide a flexible, adaptable and accessible environment to the users.











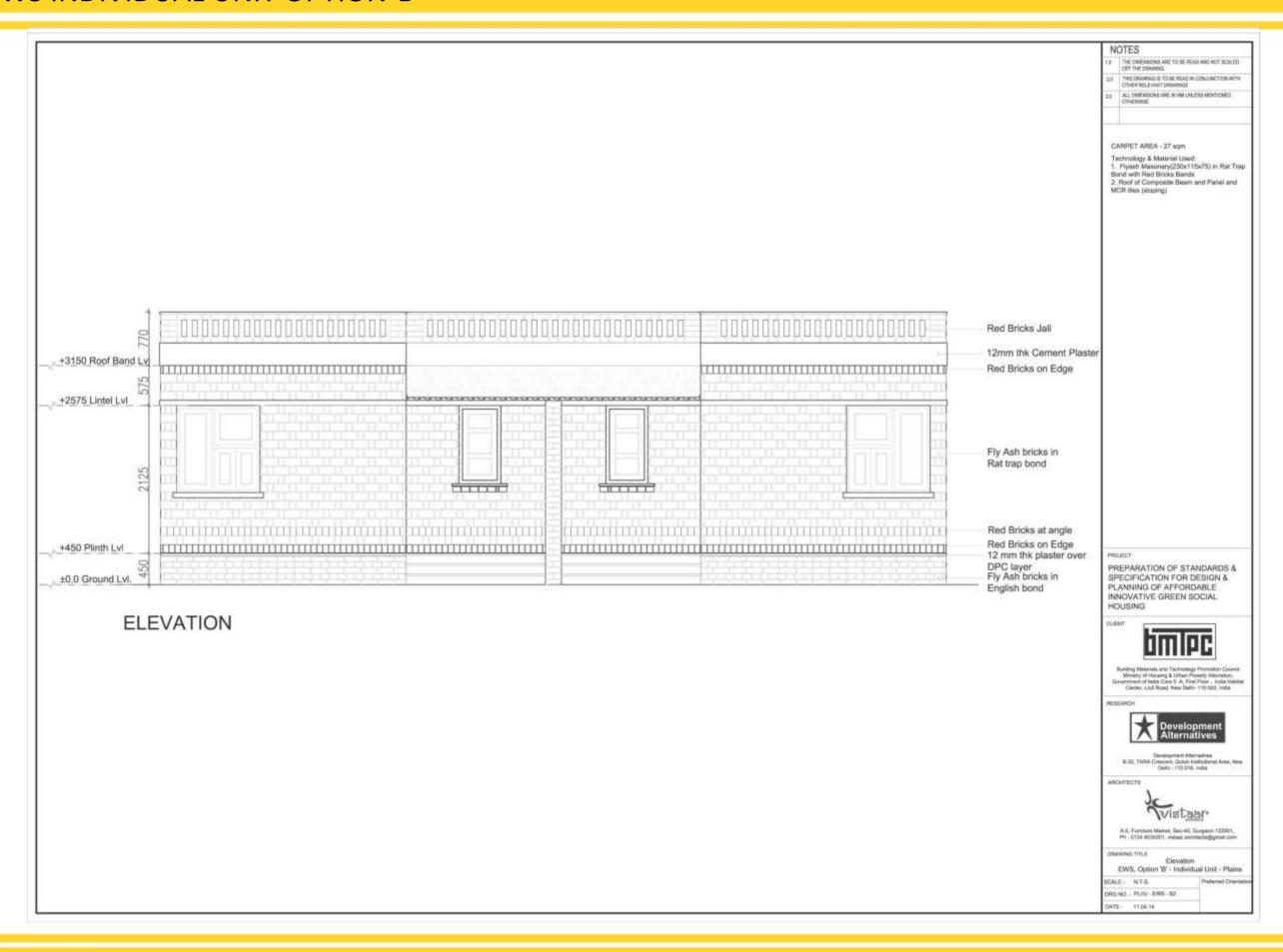








Figure 23: VIEW OF EWS INDIVIDUAL UNIT OPTION-B



Figure 24: STREET VIEW OF EWS INDIVIDUAL UNIT OPTION-B





## **EWS CLUSTER UNIT OPTION-A**

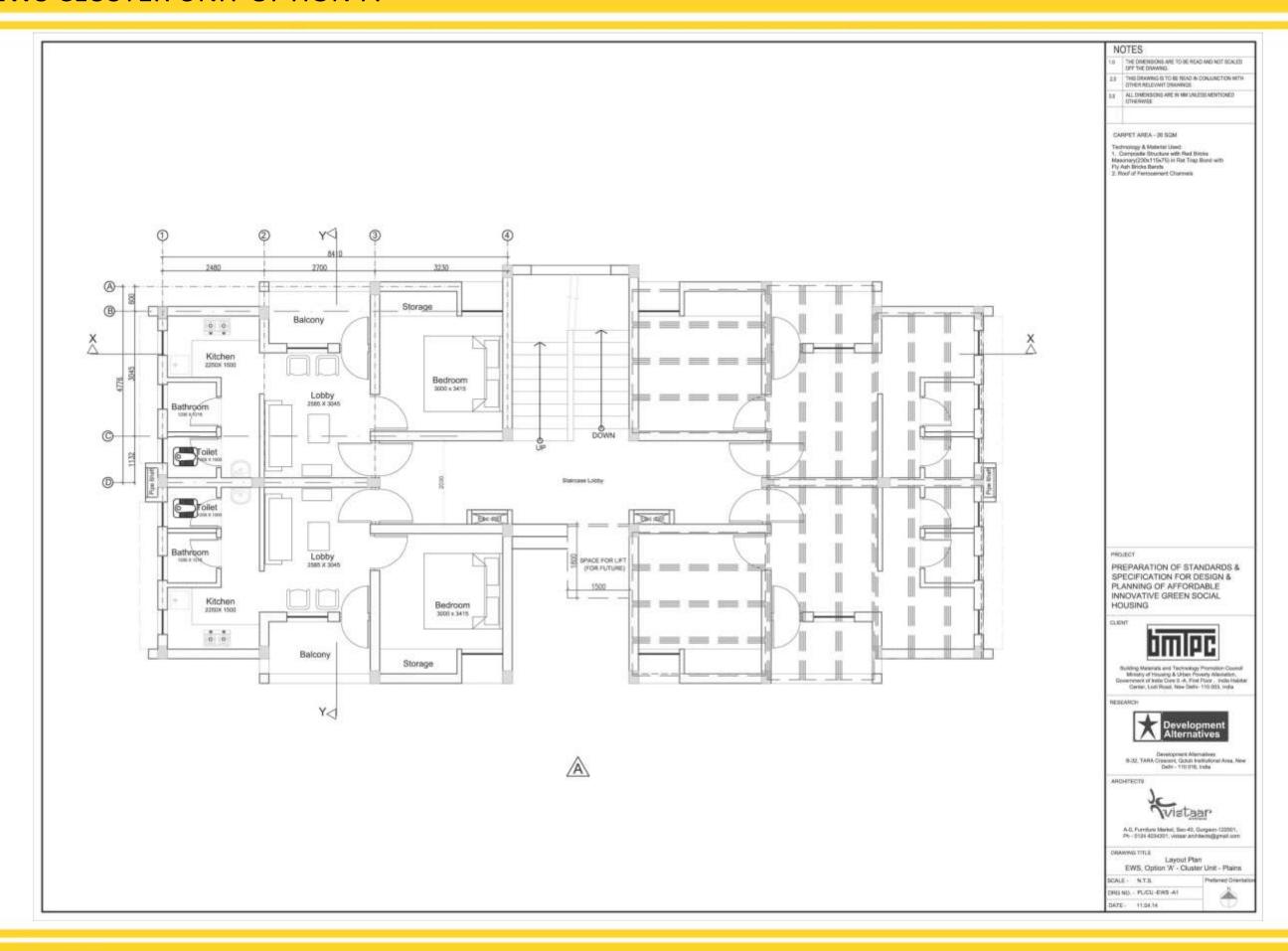
Cluster arrangement is done with six numbers of 1 BHK units at one level with two on each side. The carpet area for one unit is 26 sqm. A centrally accessible stairway is provided, which is approached through a 1500mm wide corridor and there is also an option for lift for future restorations. The approach to the habitable area is through a lobby which leads to bedroom and the kitchen. Each unit has been provided with balcony for proper day lighting and ventilation. Also common service ducts are designed for pipework and electrical work.

The brick masonry work for the super structure is done with fly ash bricks laid in rat-trap bond. Flooring system has been designed with pre-cast Ferro Cement channel system. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of the top floor slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

The dwelling unit is designed so as to provide a flexible, adaptable and accessible environment to the users.





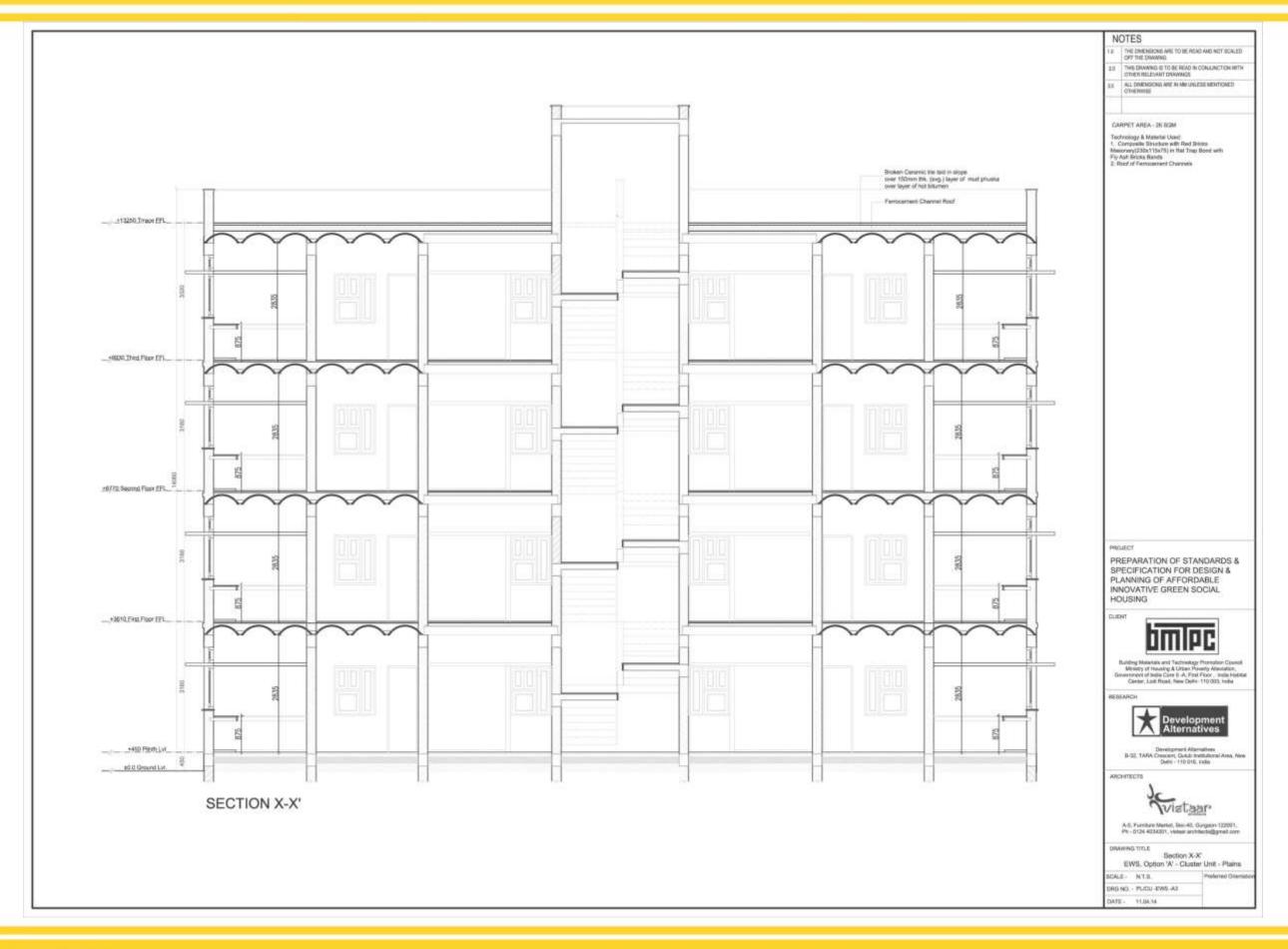






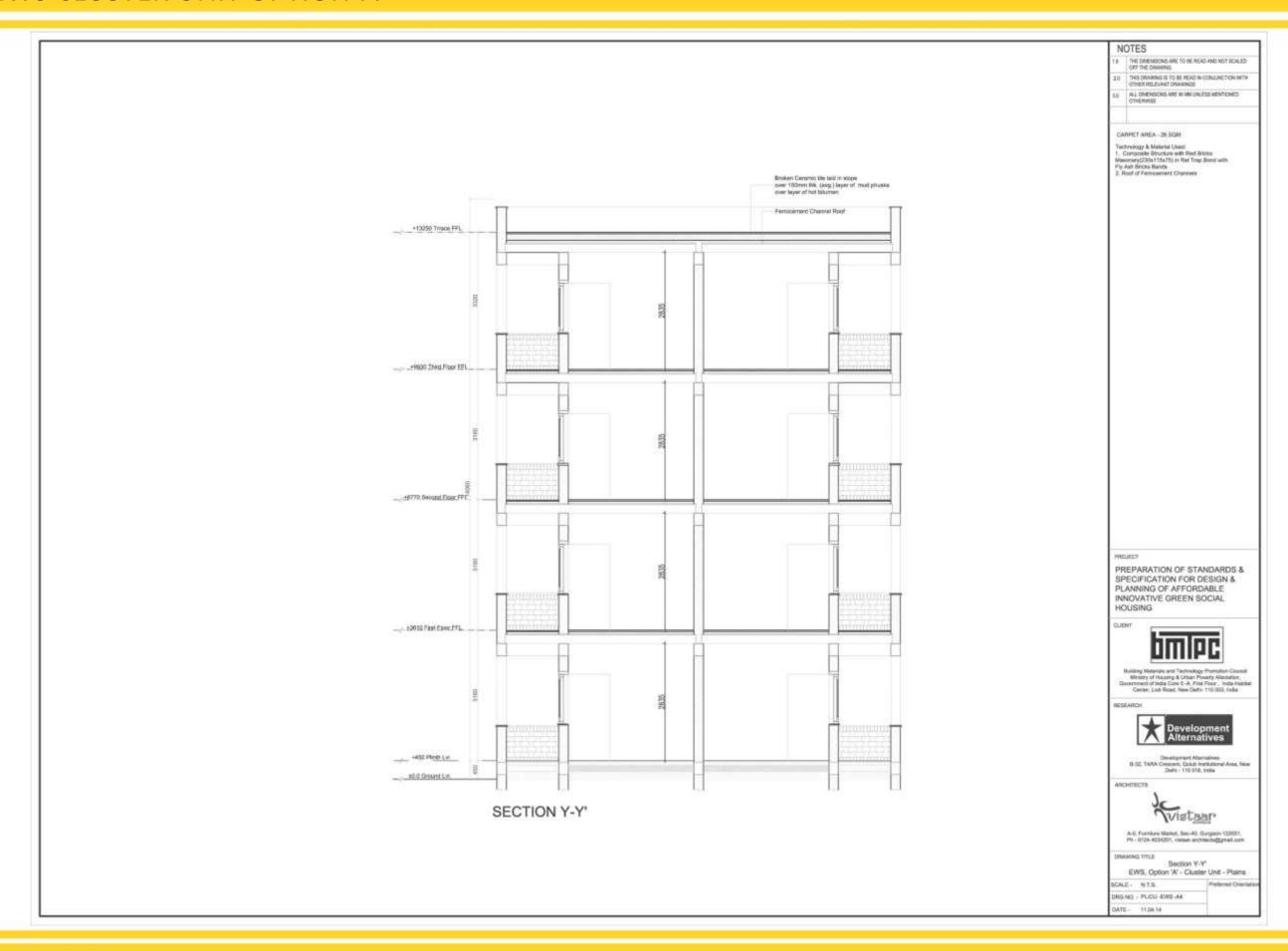
















## **EWS CLUSTER UNIT OPTION-B**

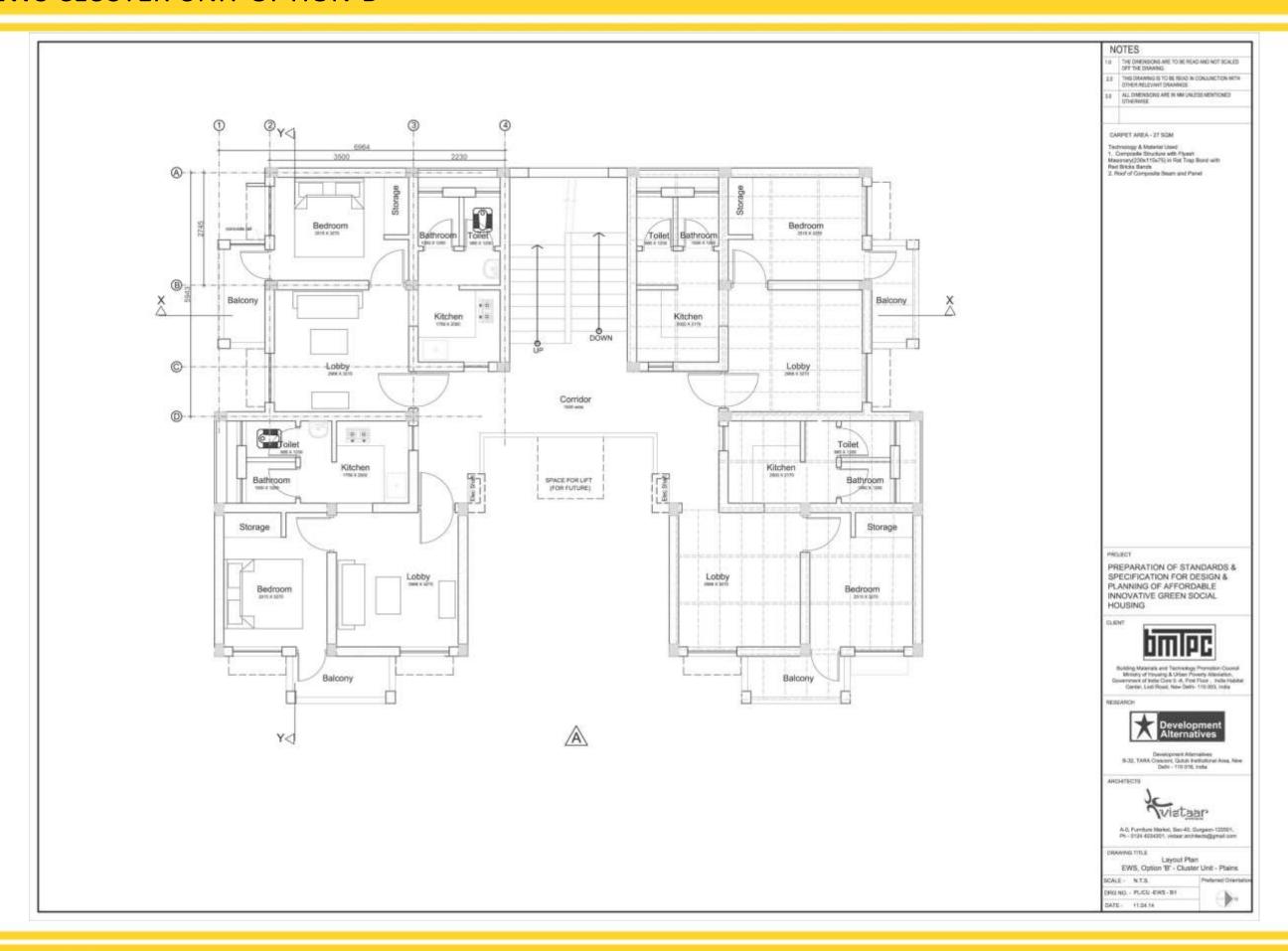
Cluster arrangement is done with six numbers of 1 BHK units at one level with two on each side. The carpet area of one unit is 27 sqm. A centrally accessible stairway is provided, which is approached through a 1500mm wide corridor and there is also an option for lift for future restorations. Approach to the habitable area is through a lobby which then leads to kitchen/utility area and to the bedroom. Each unit has been provided with balcony for proper day lighting and ventilation. Also common service ducts are designed for pipe and electrical work.

The brick masonry work for the super structure is done with a combination of Fly Ash and red bricks laid in rat-trap bond. Flooring system has been designed with pre cast arch panel system supported by beams. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of the top floor slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

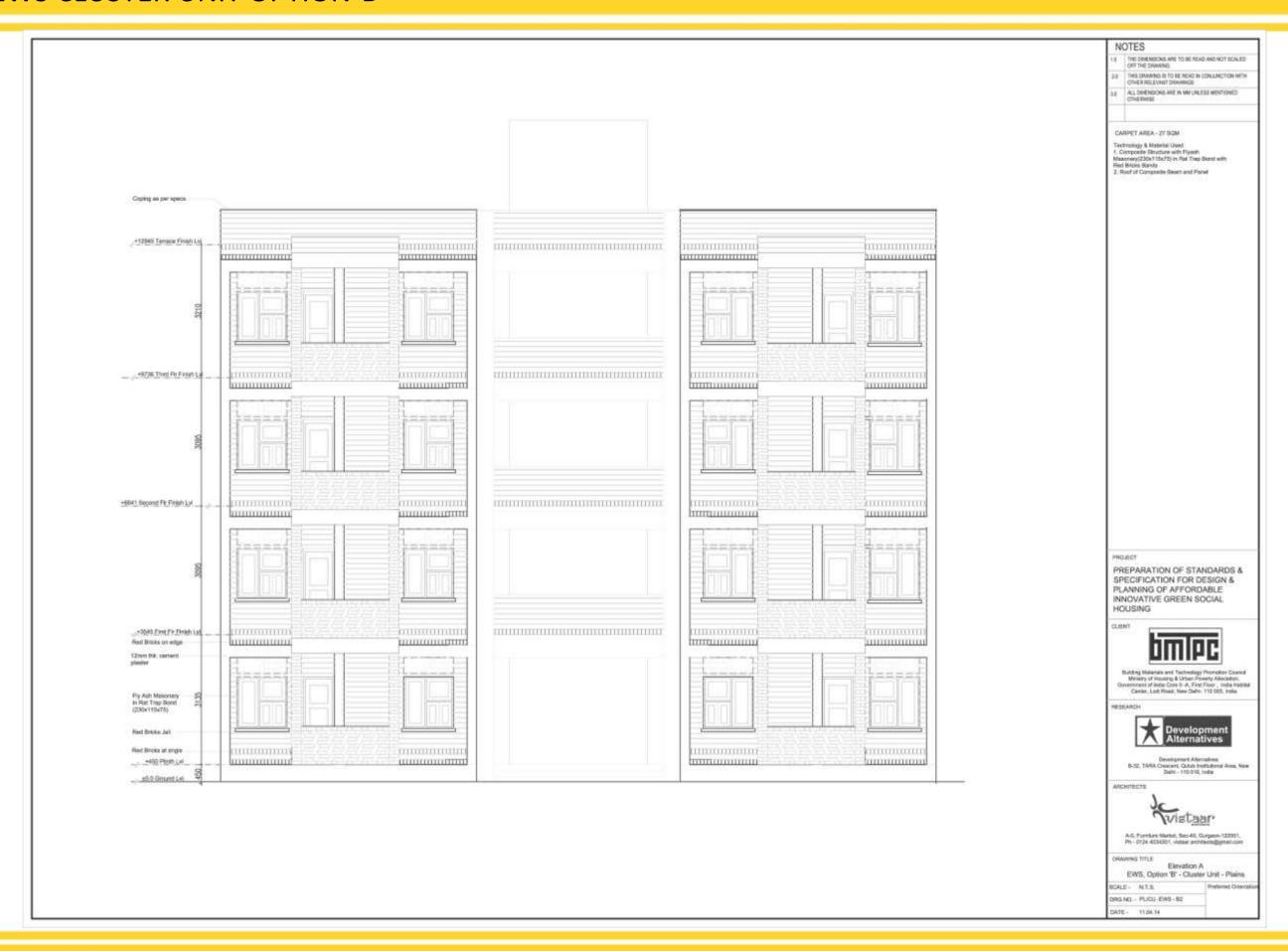
The dwelling unit is designed so as to provide a flexible, adaptable and accessible environment to the user.





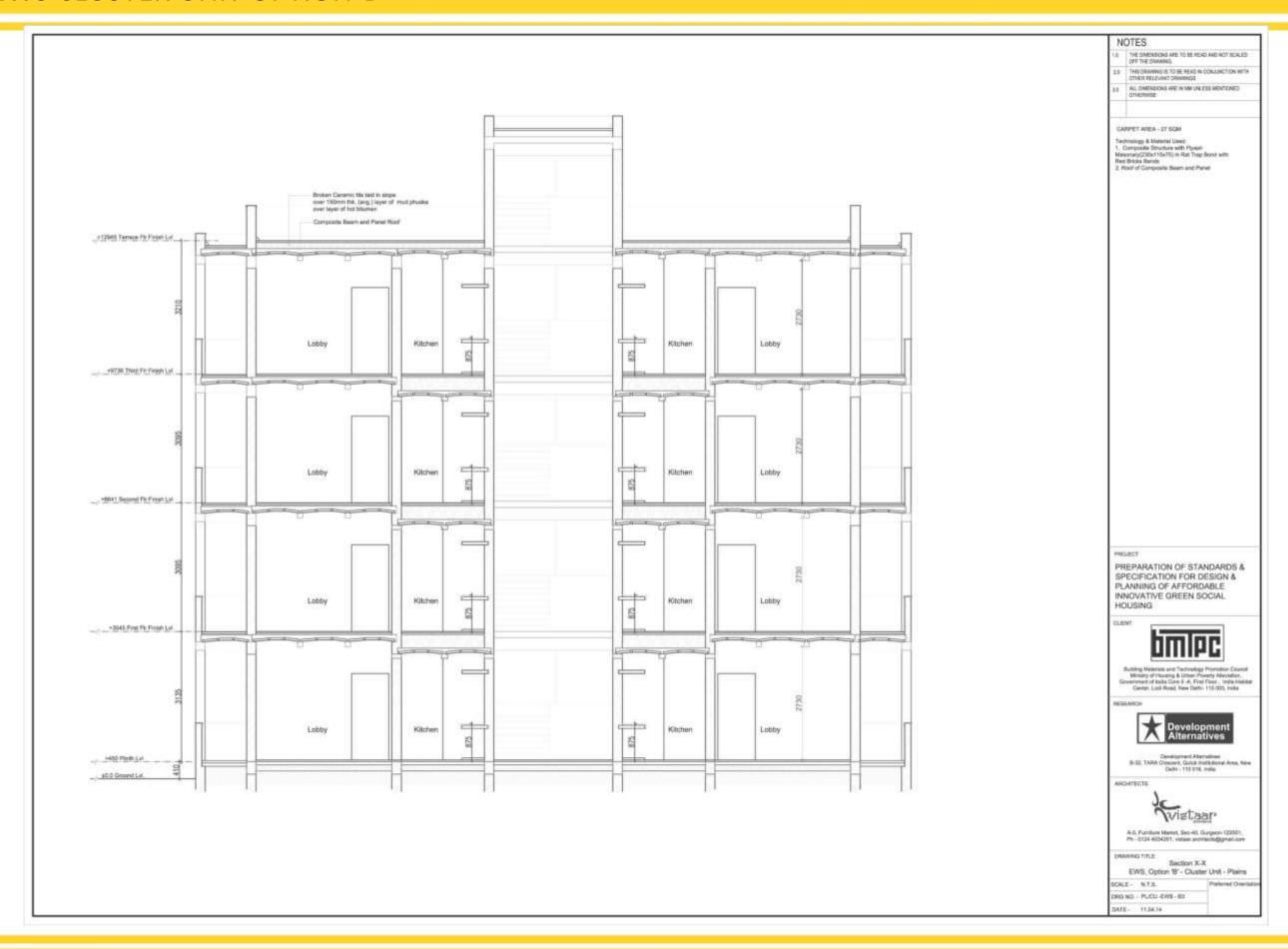






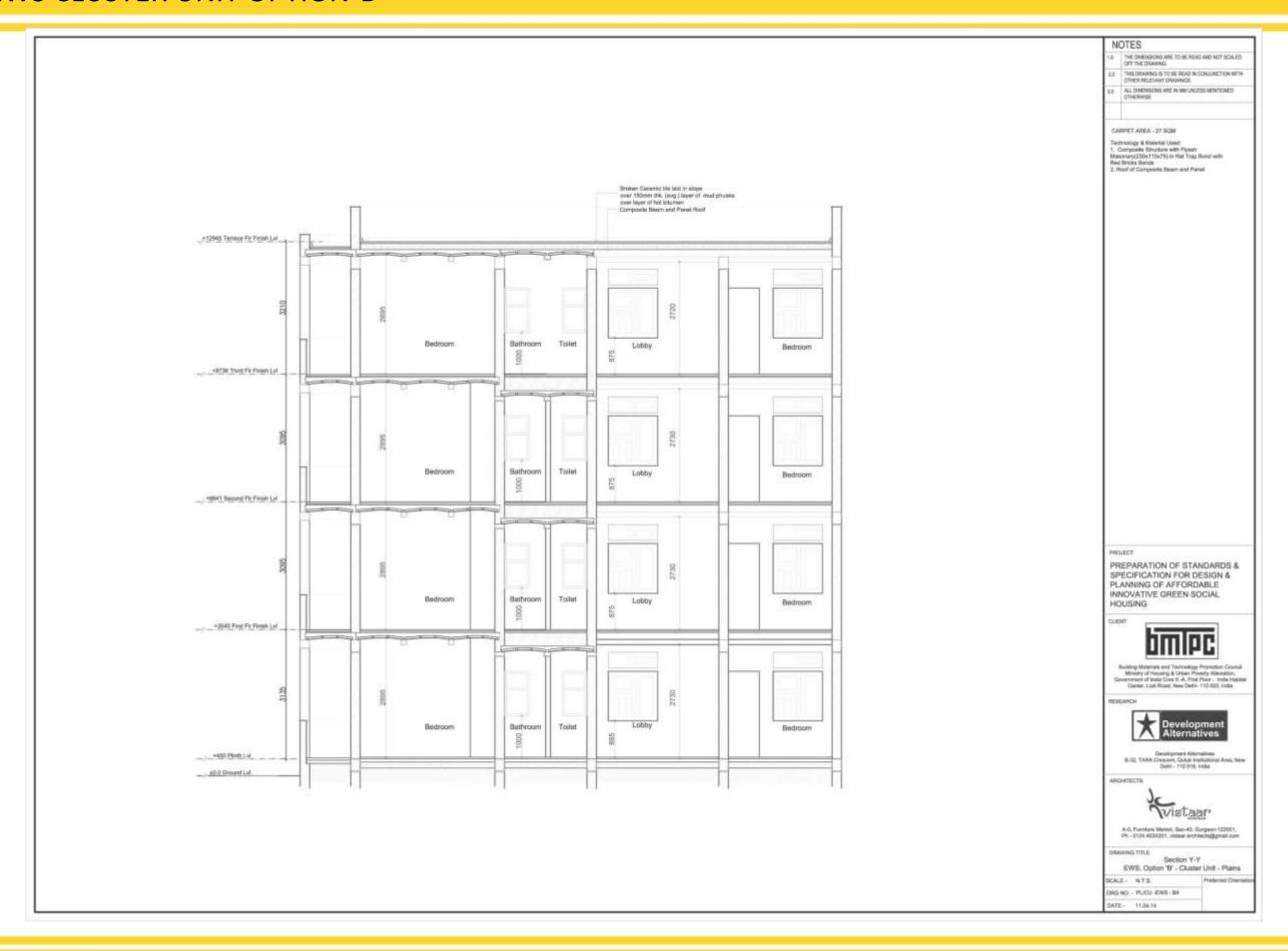
















# Lower Income Group-A

(LIG-A):

The carpet area of a dwelling unit-

28-40 sqm

Floor Area Ratio- 1.75





# LIG-A INDIVIDUAL UNIT OPTION-A

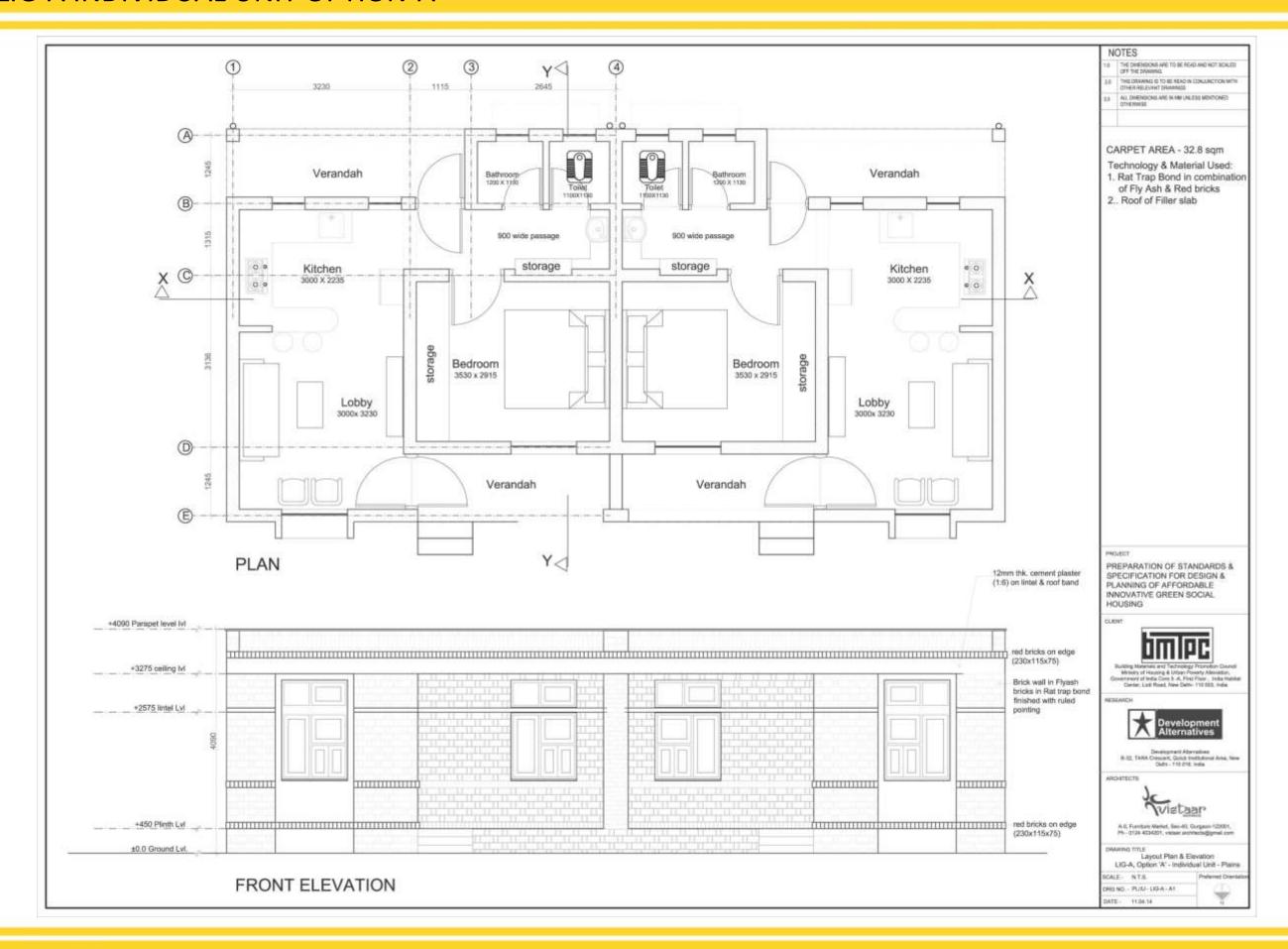
A significant proportion of space has been tailored according to the numbers and characteristic of expected residents. The unit is of 1BHK typology with carpet area of 32.8 sqm. This housing unit is made accessible through a veranda leading to a lobby. The toilet and the bathing area are provided separately as common unit. The kitchen is provided with a small space for dining. The layout allows easily adaptable internal arrangements.

The super structure has been designed with Fly Ash bricks laid in rat- trap masonry bond. Roofing of the main unit is done with RCC filler slab with filler material as specified. Terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen above the roof slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.











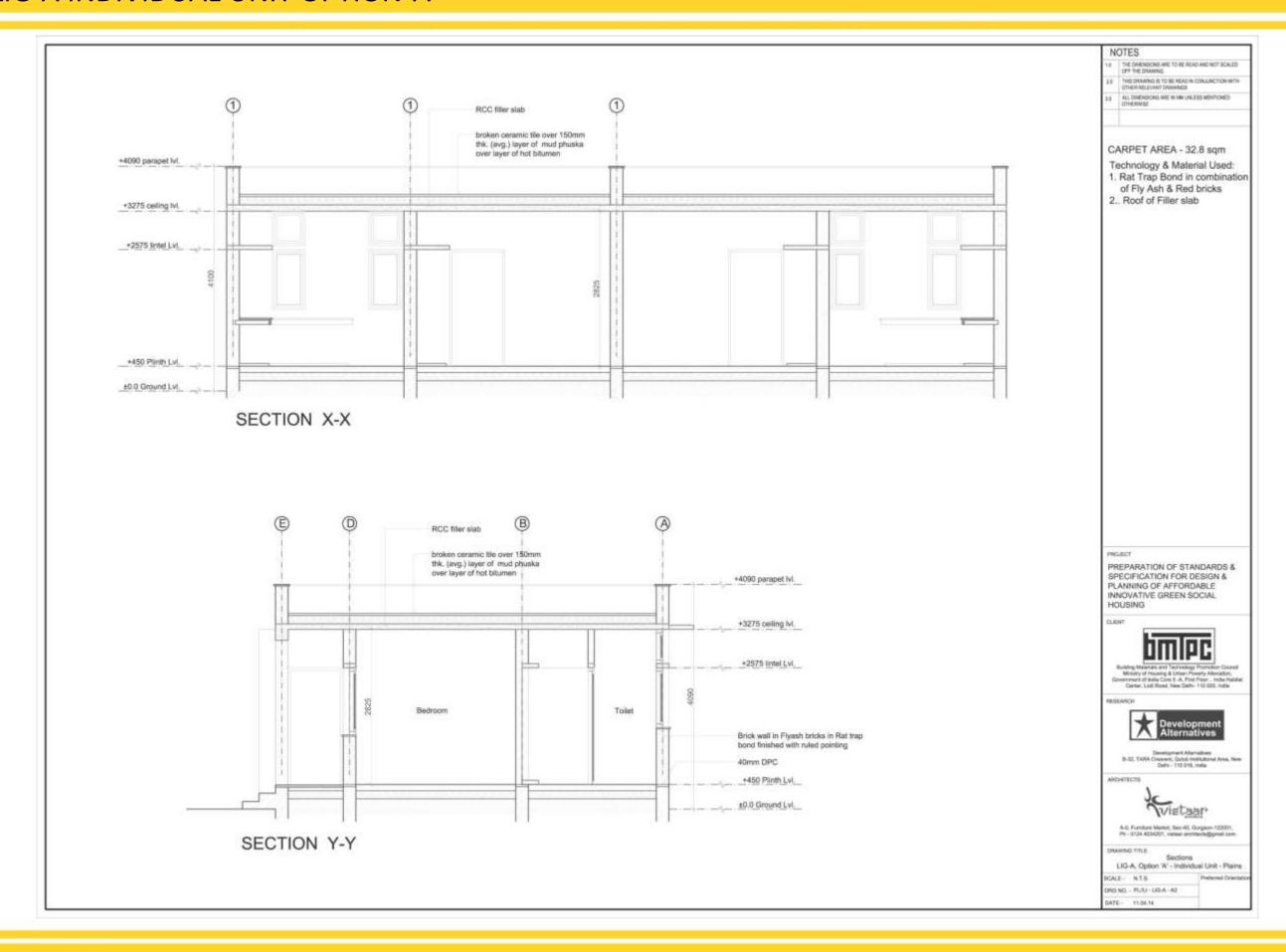








Figure 25: VIEW OF LIG-A INDIVIDUAL UNIT OPTION-A



Figure 26: STREET VIEW OF LIG-A INDIVIDUAL UNIT OPTION-A





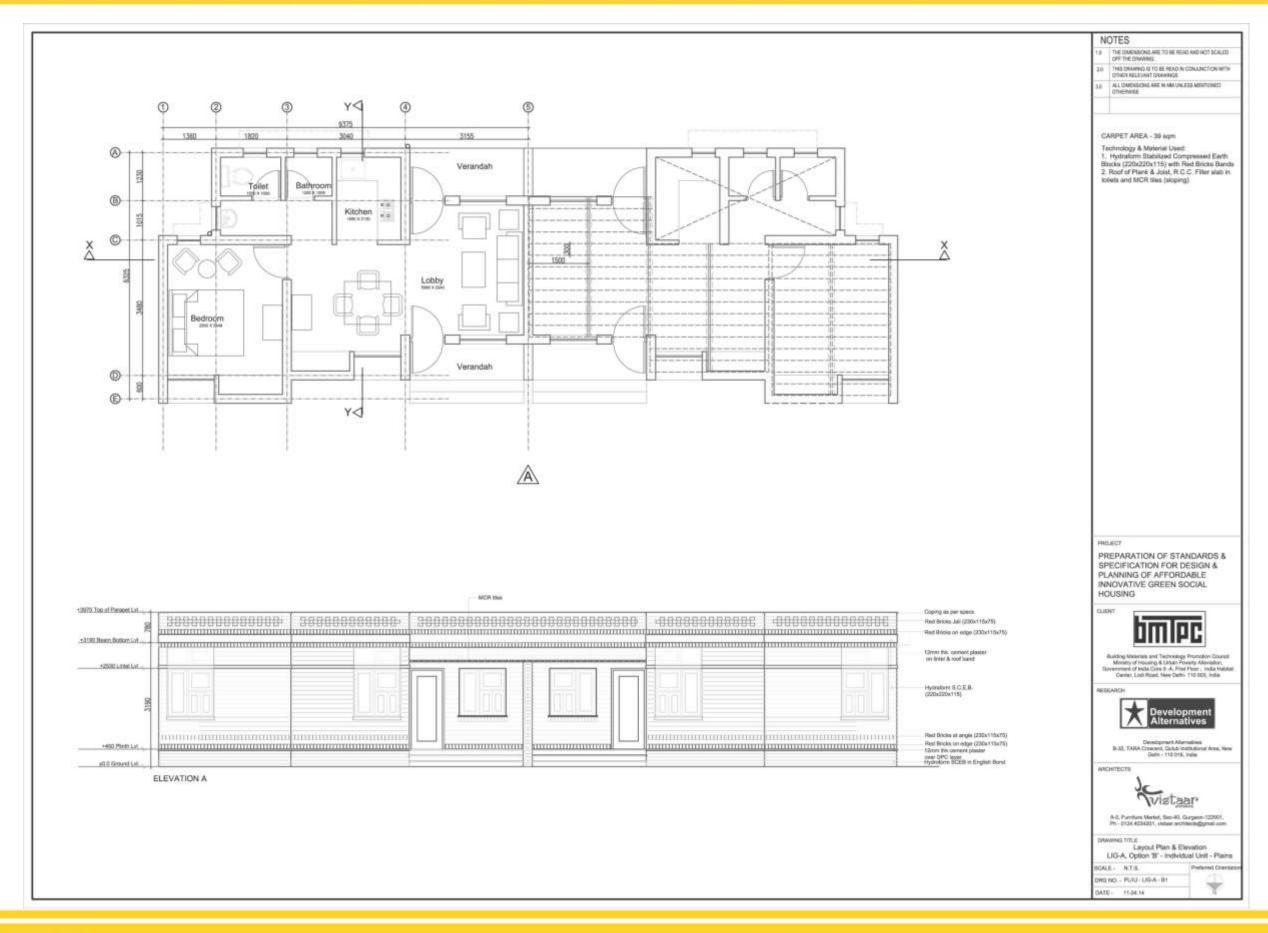
# LIG-A INDIVIDUAL UNIT OPTION-B

A significant proportion of space has been tailored according to the numbers and characteristic of expected residents. The unit is of 1HBK typology with carpet area of 39 sqm. This housing unit is made accessible through a veranda leading to a lobby. The toilet and the bathing area are approached through a common utility area. The kitchen is provided with a small space for dining. The layout allows easily adaptable internal arrangements.

The super structure has been designed with stabilised compressed earth blocks laid in rat- trap bond. Roofing has been done with pre cast Reinforced Cement Concrete (R.C.C.) planks and joist and Micro Concrete Roofing tile. Separate sloping roof has been designed for veranda portion with filler slab. Terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen above the roof slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.









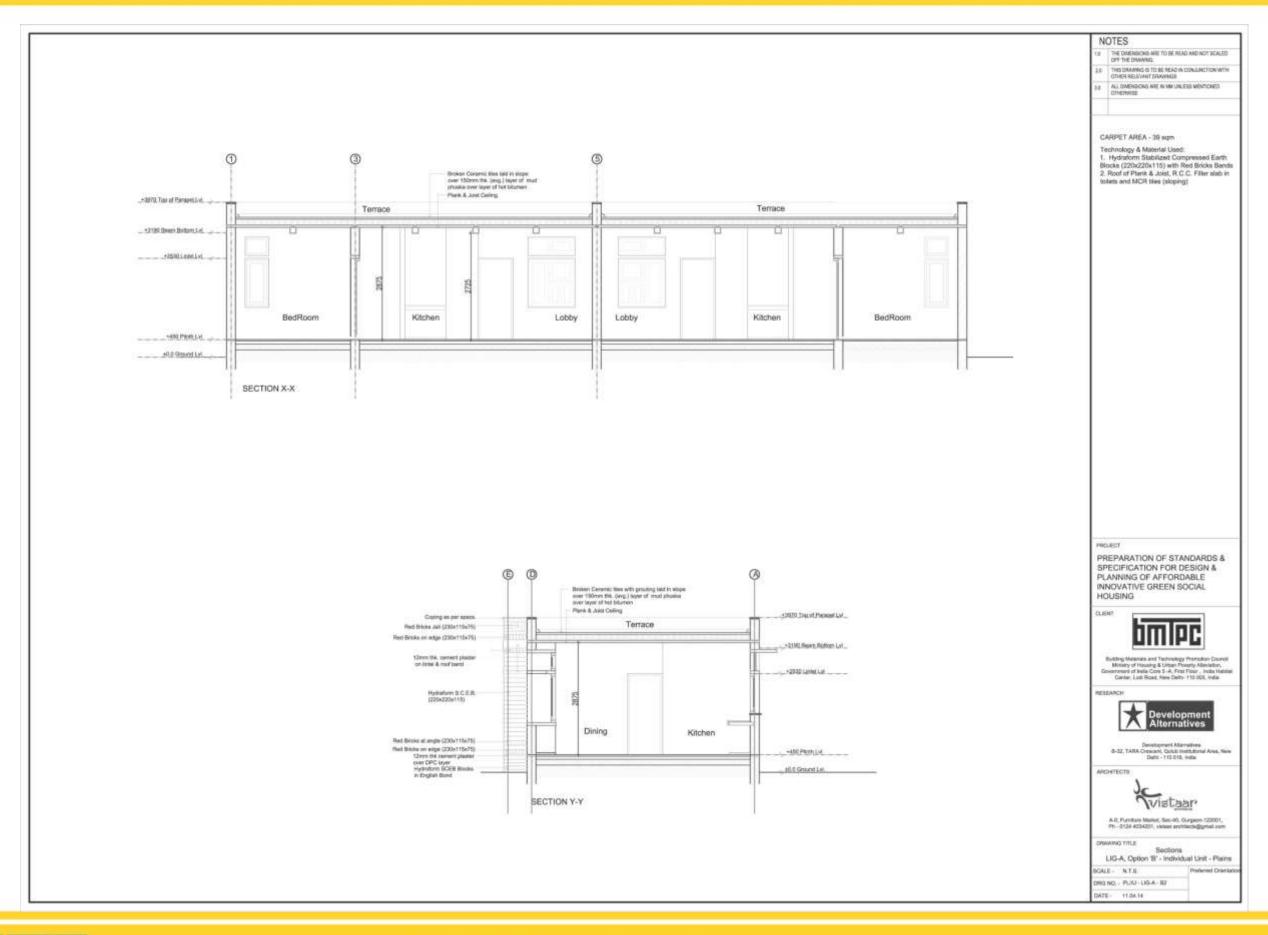








Figure 27: VIEW OF LIG-A INDIVIDUAL UNIT OPTION -B



Figure 28: STREET VIEW OF LIG-A INDIVIDUAL UNIT OPTION-B





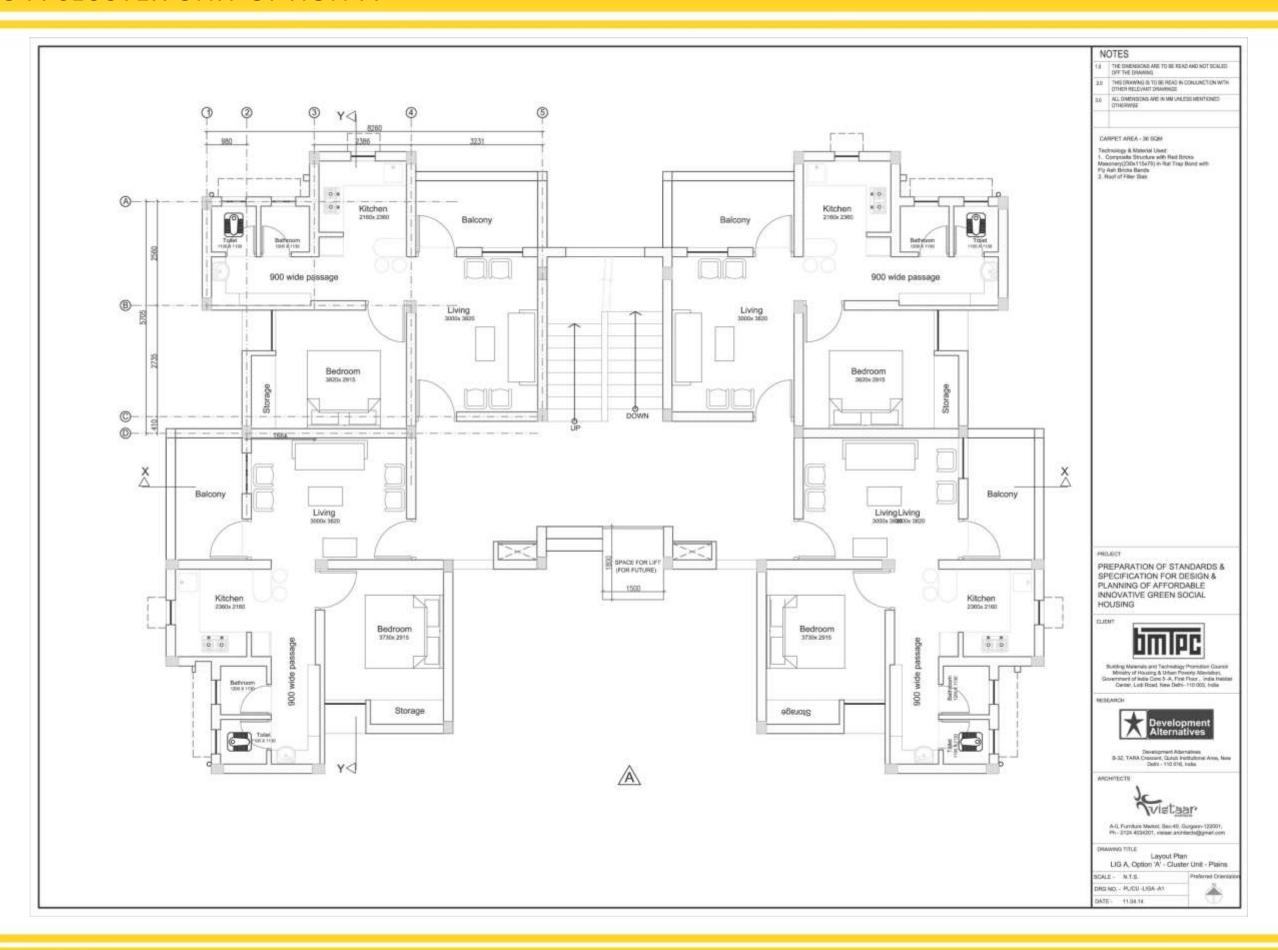
### LIG-A CLUSTER UNIT OPTION-A

Cluster arrangement is done with four numbers of units of 1BHK typology at one level with two on each side. The carpet area of each unit is 36 sqm. A centrally accessible stairway is provided, which is approached through a common space rather than a corridor and there is also an option for lift for future restorations. The approach to the habitable area is through a lobby leading to kitchen/dining area and to bedroom. Each unit has been provided with balcony accessible through bedroom for proper day lighting and ventilation. Also common service ducts are designed for pipe and electrical work.

The brick masonry work for the super structure is done with Fly Ash bricks laid in rat-trap bond. Flooring is done with RCC filler slab with specified filler slab. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of the top floor slab.

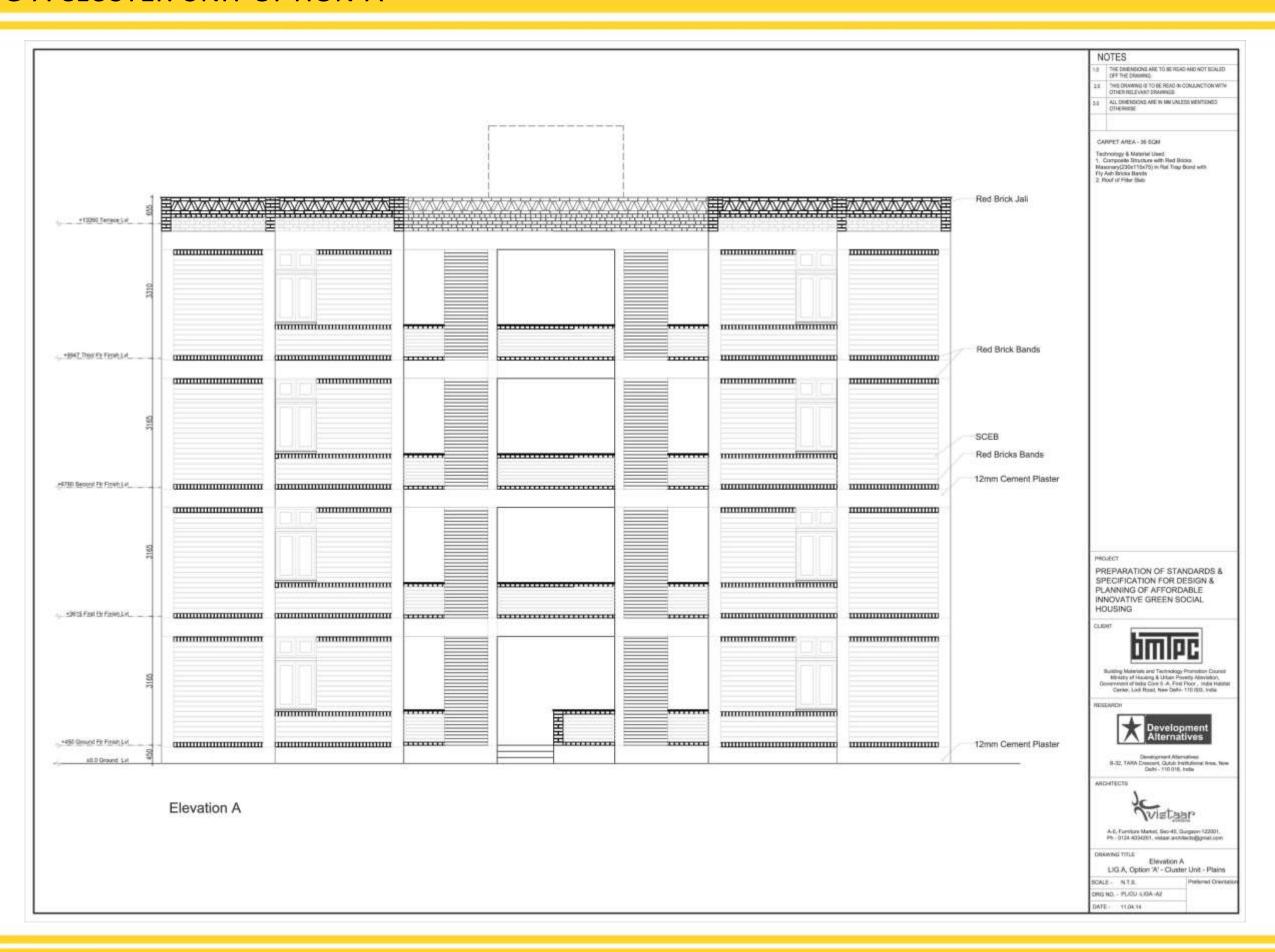
For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.





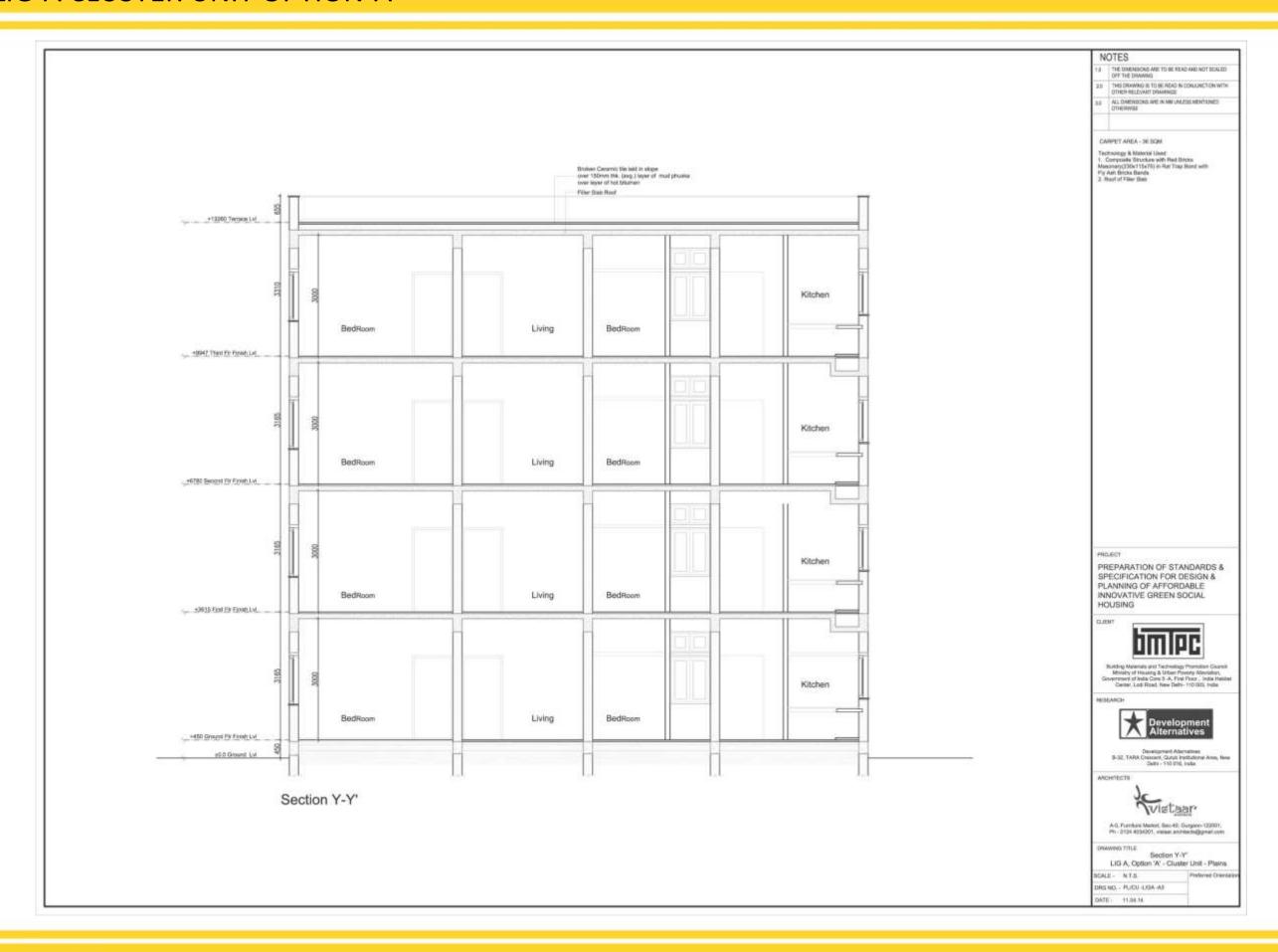






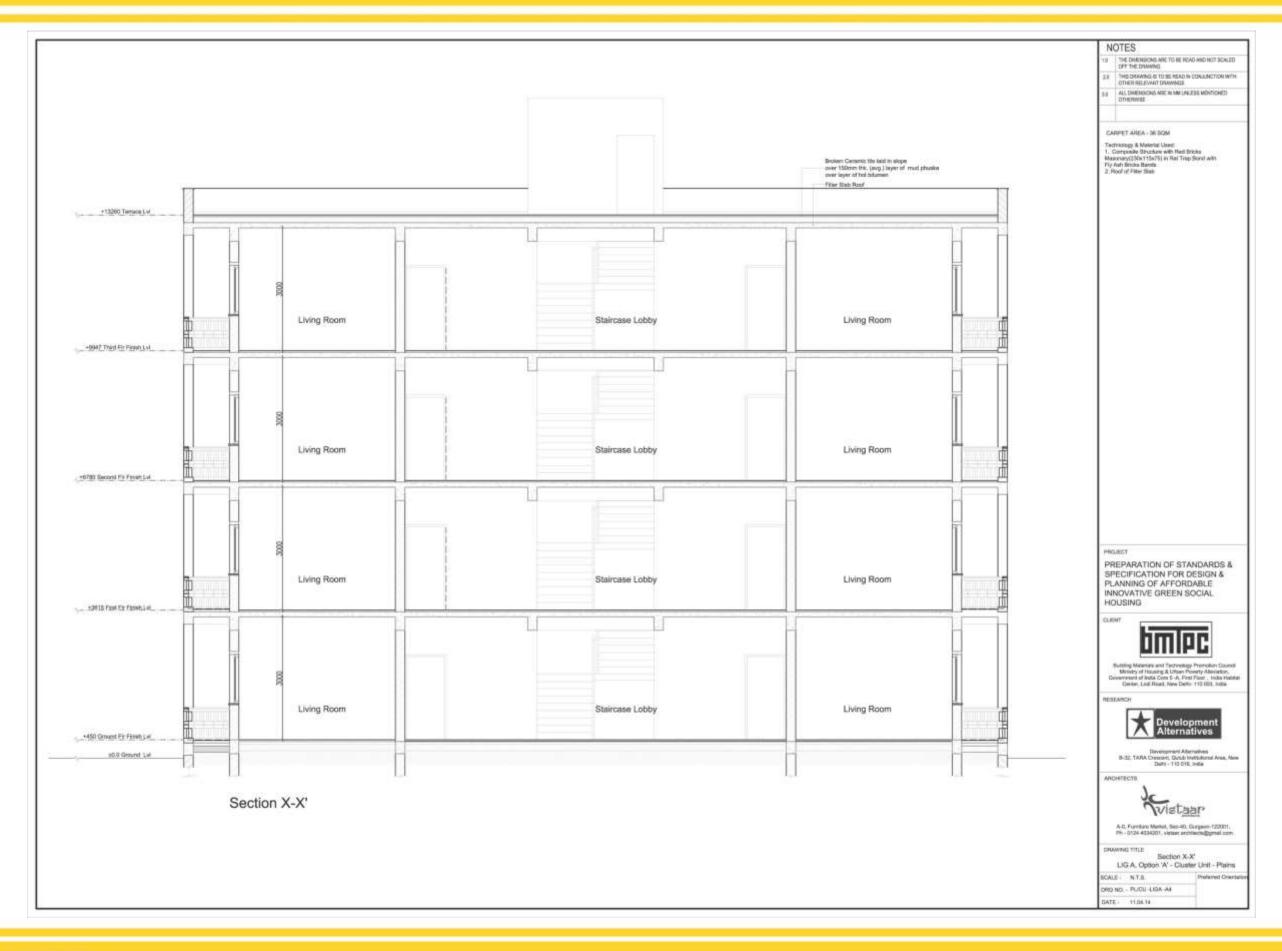
















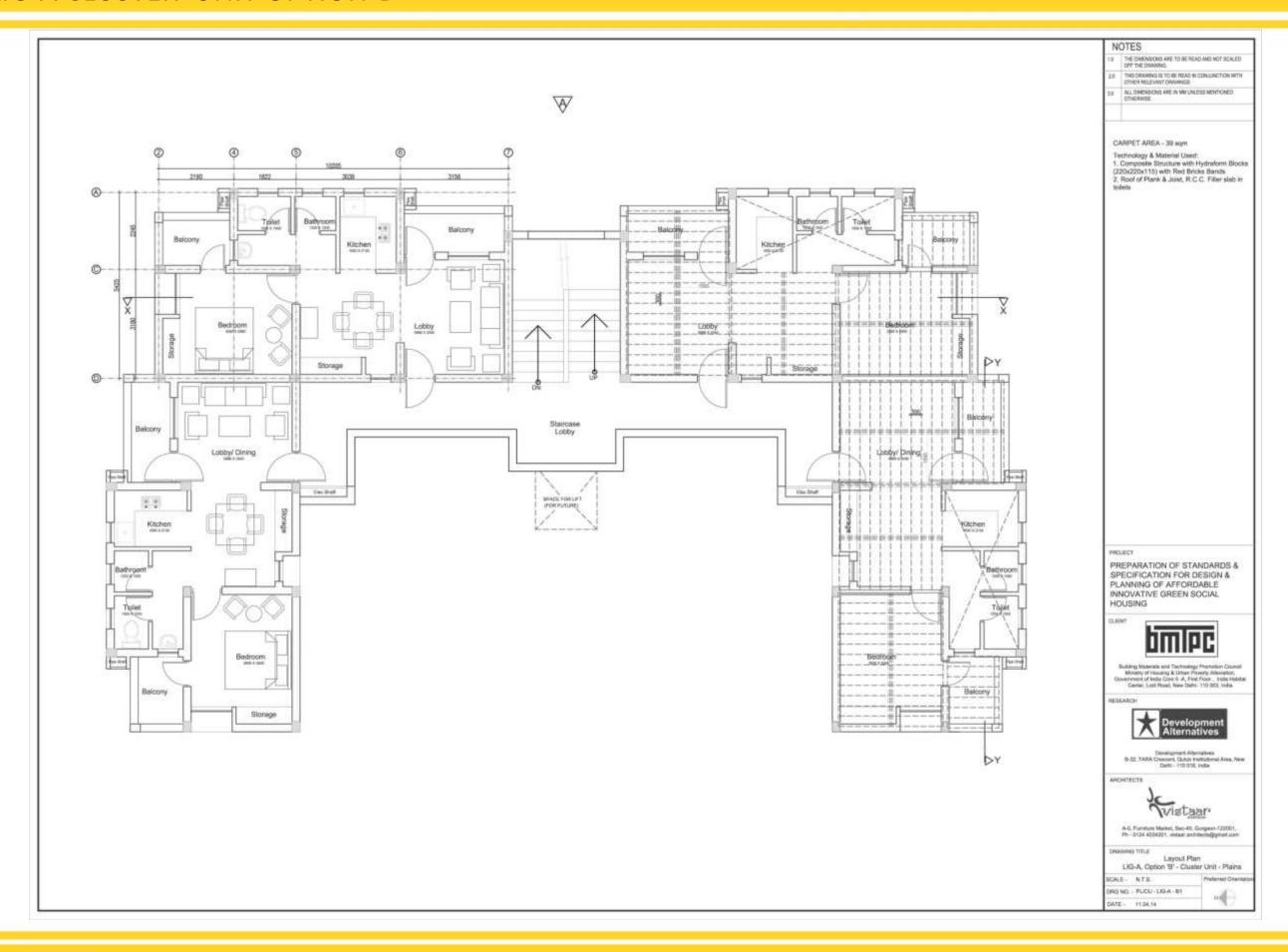
# LIG-A CLUSTER UNIT OPTION-B

Cluster arrangement is done with four numbers of units of 1BHK typology at one level with two on each side. The carpet area of each unit is 39 sqm. A centrally accessible stairway is provided, which is approached through a common central lobby area rather than a corridor and there is also an option for lift for future restorations. The approach to the habitable area is through a lobby leading to kitchen/dining area and to bedroom. Each unit has been provided with two balconies, one accessible through bedroom and other accessible through living area for proper day lighting and ventilation. The unit has a centrally accessible dining area. Also common service ducts are designed for pipe and electrical work.

The brick masonry work for the super structure is done with hydra form stabilised compressed earth blocks laid in rat-trap bond. Flooring is done with pre cast Reinforced Cement Concrete (R.C.C.) planks and joists. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of the top floor slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.





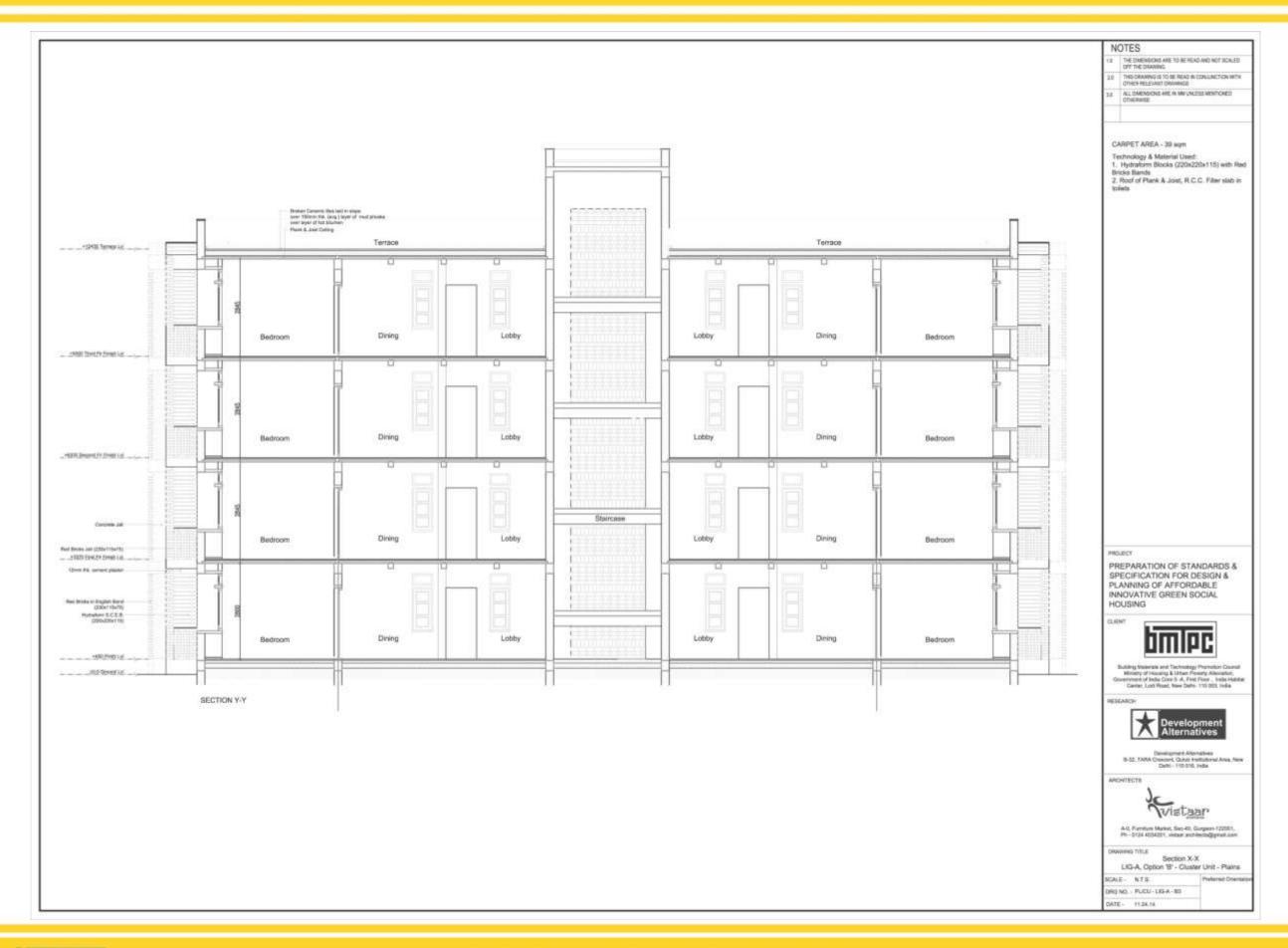






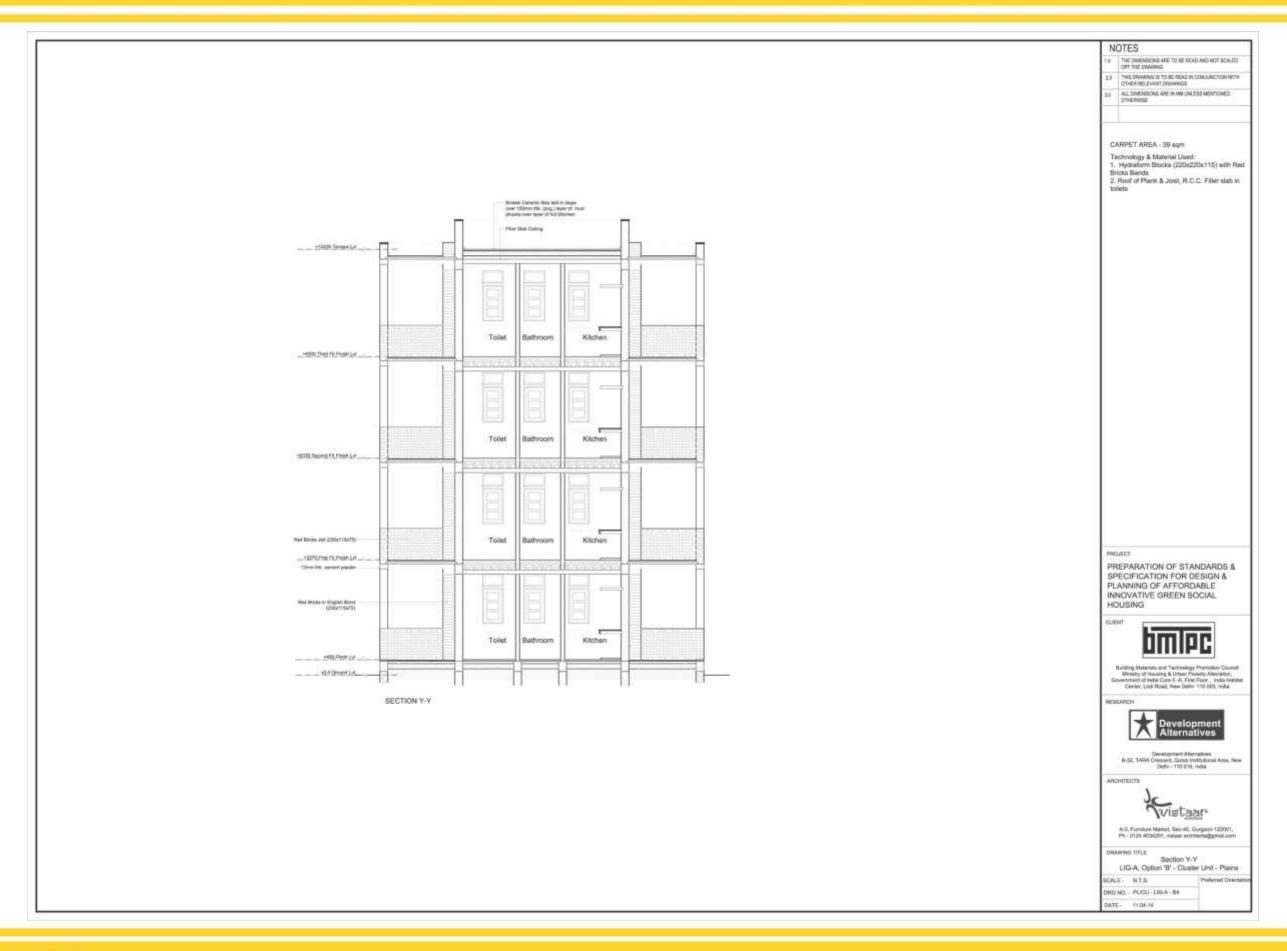
















# **Lower Income Group**

(LIG-B):

The carpet area of a dwelling unit-

41-60 sqm

Floor Area Ratio- 1.75





### LIG-B INDIVIDUAL UNIT OPTION-A

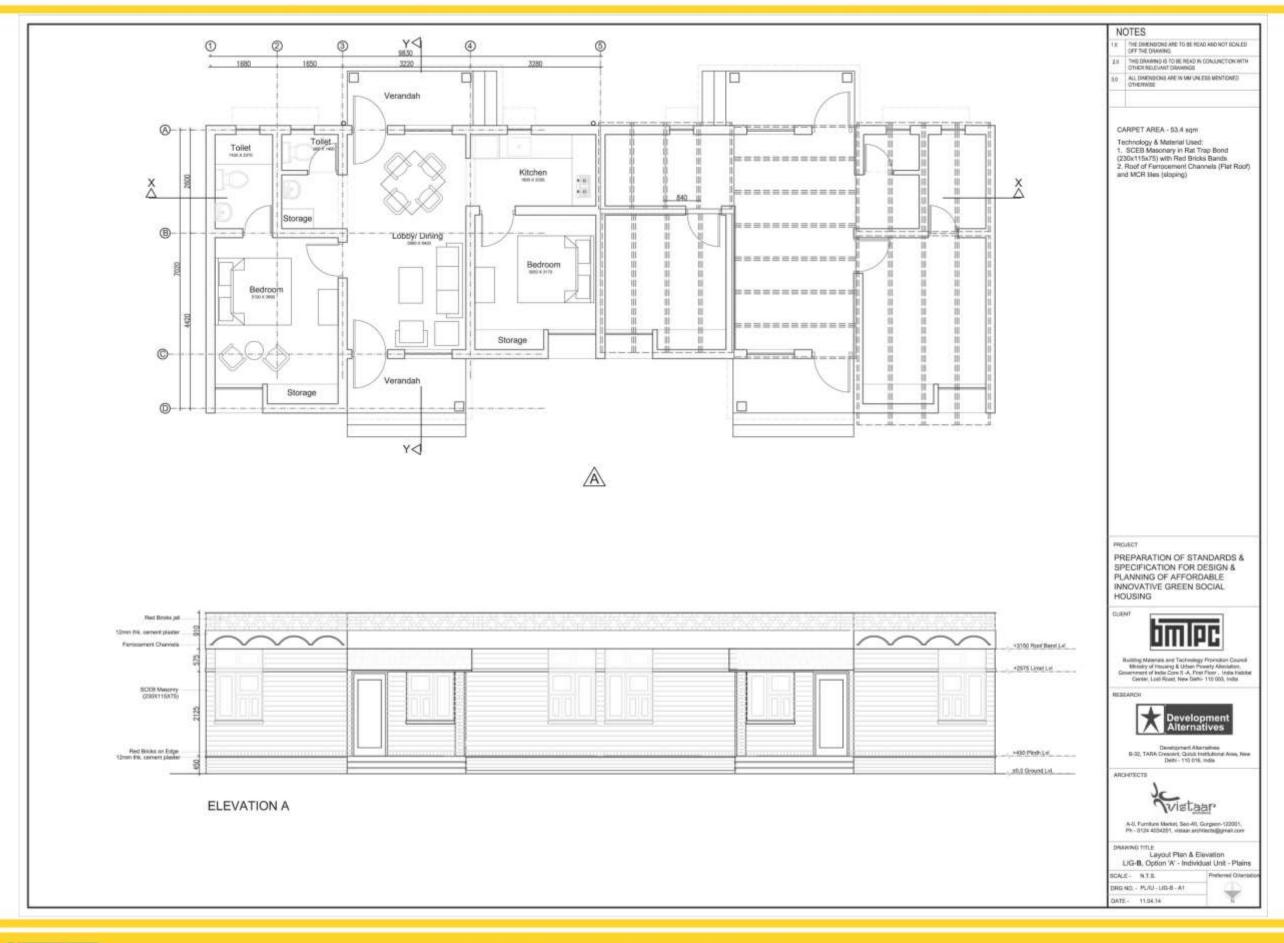
A significant proportion of space has been tailored according to the numbers and characteristic of expected residents. The unit is of 2BHK typology with carpet area of 53.4 sqm. This housing unit is made accessible through a veranda leading to a lobby with dining area. The toilet and the bathing area are combined and provided one in the master bedroom and one as common. The layout allows easily adaptable internal arrangements.

The super structure is made up of hydra form stabilised compressed earth blocks laid in rat- trap bond. A combination of red brick is done to enhance the aesthetics of the unit. Roofing of the unit is done with pre cast Ferro Cement channel. The roof over the veranda is separated from the main unit and is made up of Micro Concrete Roofing tiles (MCR). The terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen over the roof slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.











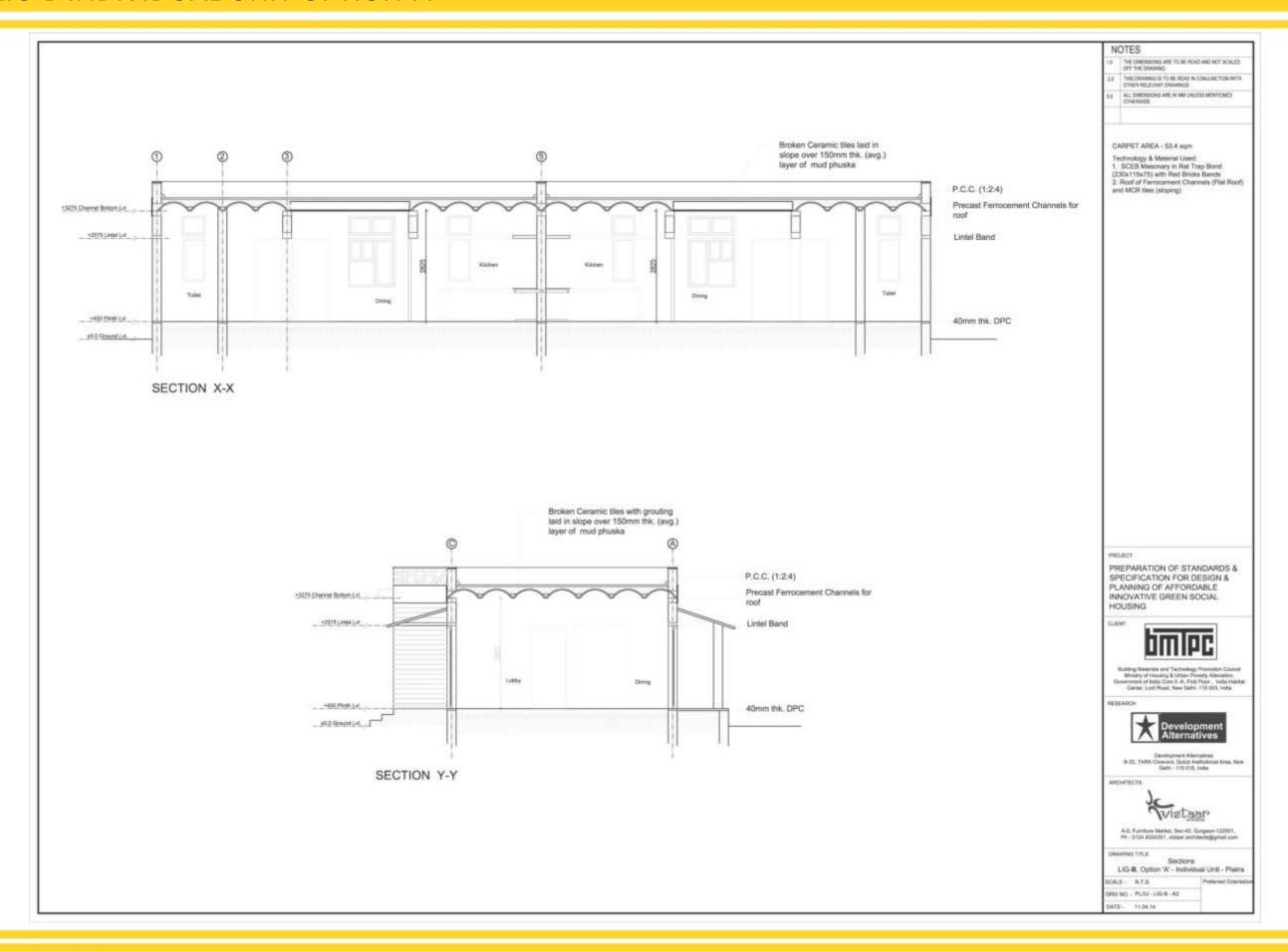








Figure 29: VIEW OF LIG-B INDIVIDUAL UNIT OPTION-A



Figure 30: STREET VIEW OF LIG-B INDIVIDUAL UNIT OPTION-A





### LIG-B INDIVIDUAL UNIT OPTION-B

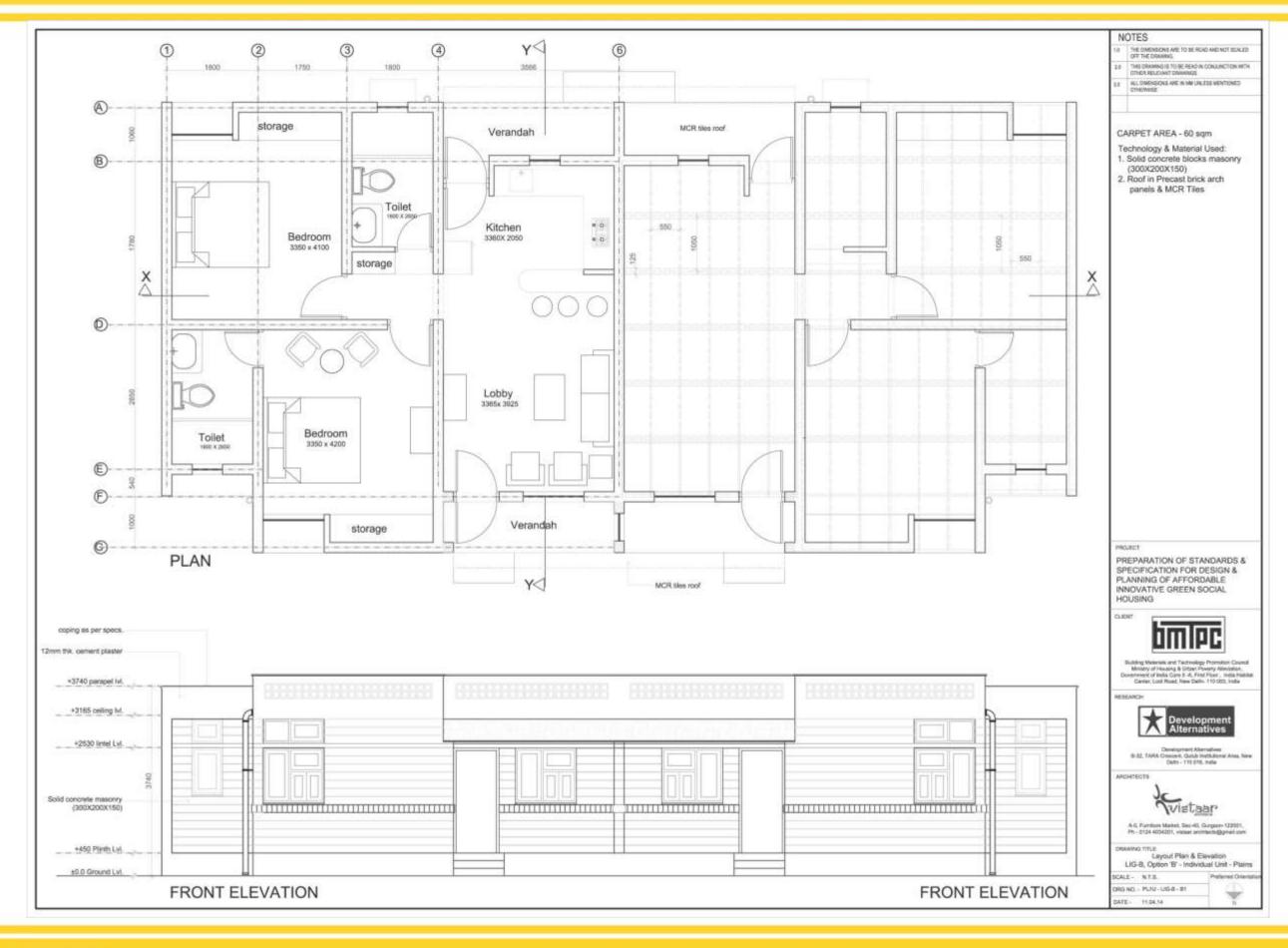
A significant proportion of space has been tailored according to the numbers and characteristic of expected residents. The housing unit is of 2BHK typology with carpet area of 60 sqm. This housing unit is made accessible through a veranda leading to a lobby with dining area. The toilet and the bathing area are combined and provided one in the master bedroom and one as common. The unit also has another veranda at its rear side. The unit is provided with permanent ventilation through the pre-fabricated louvers. The layout allows easily adaptable internal arrangements.

The super structure is made up of fly ash bricks laid in rat- trap bond. A combination of pre-cast concrete block solids is done to enhance the aesthetics of the unit. Roofing of the main unit is done with Ferro cement arch panels and over the veranda is done with Micro Concrete Roofing (MCR) tiles. The terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen over the roof slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.











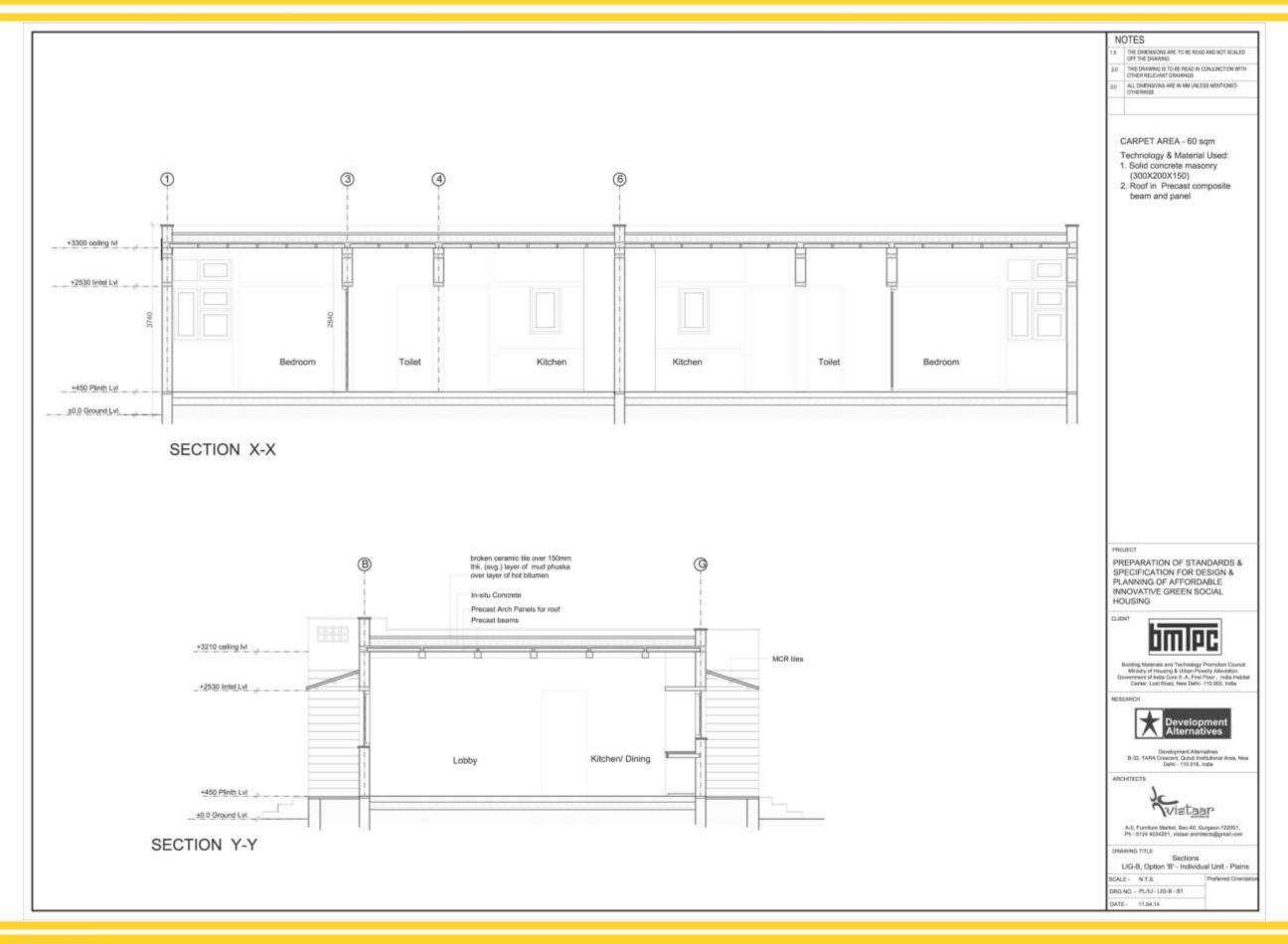








Figure 31: VIEW OF LIG-B INDIVIDUAL UNIT OPTION-B



Figure 32: VIEW OF LIG-B INDIVIDUAL UINIT OPTION-B





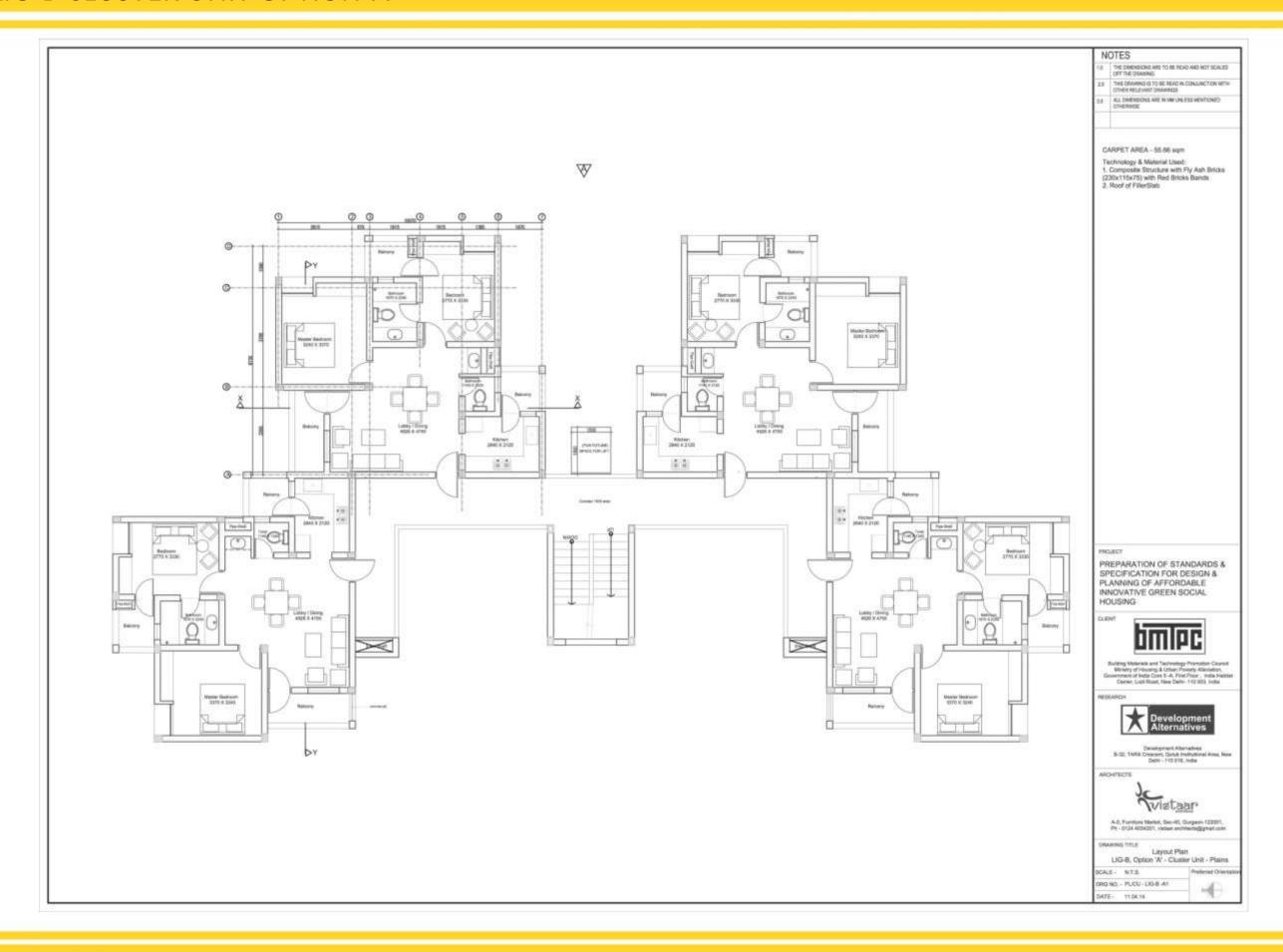
### LIG-B CLUSTER UNIT OPTION-A

Cluster arrangement is done with four numbers of units of 2BHK typology at one level with two on each side. The carpet area of each unit is 55.66 sqm. A centrally accessible stairway is provided, which is approached through a common central lobby area rather than a corridor and there is also an option for lift for future restorations. The habitable area is approached through a lobby with dining leading to the master bedroom and bedroom at the sides. Each unit has been provided with three balconies, accessible through kitchen, living area and through bedroom for proper day lighting and ventilation. Also common service ducts are designed for pipe and electrical work.

The super structure is done with fly ash bricks laid in rat- trap bond. Flooring is done with Reinforced Cement Concrete filler slab with filler materials as specified. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of the top floor slab.

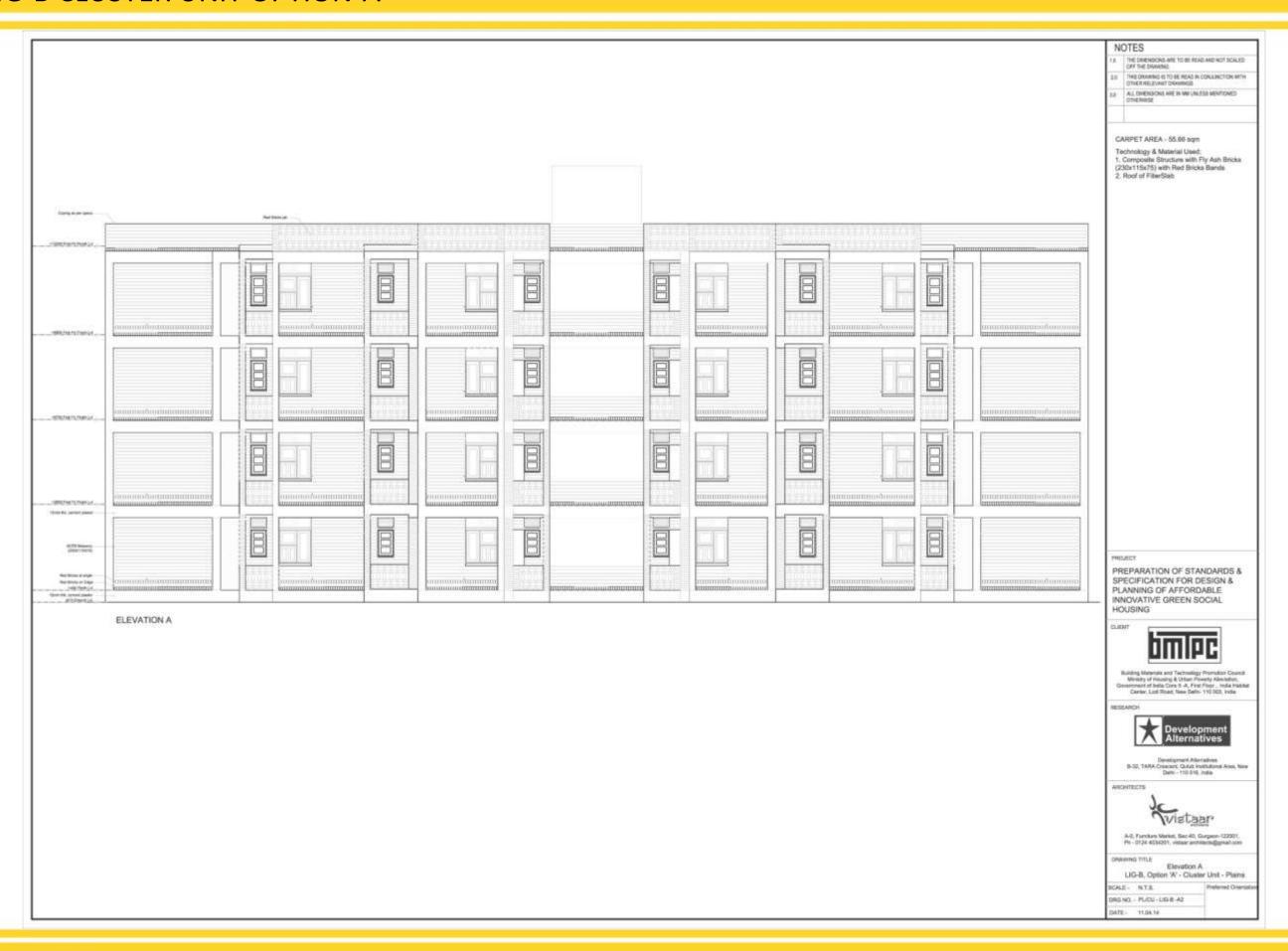
For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.





















#### LIG-B CLUSTER UNIT OPTION-B

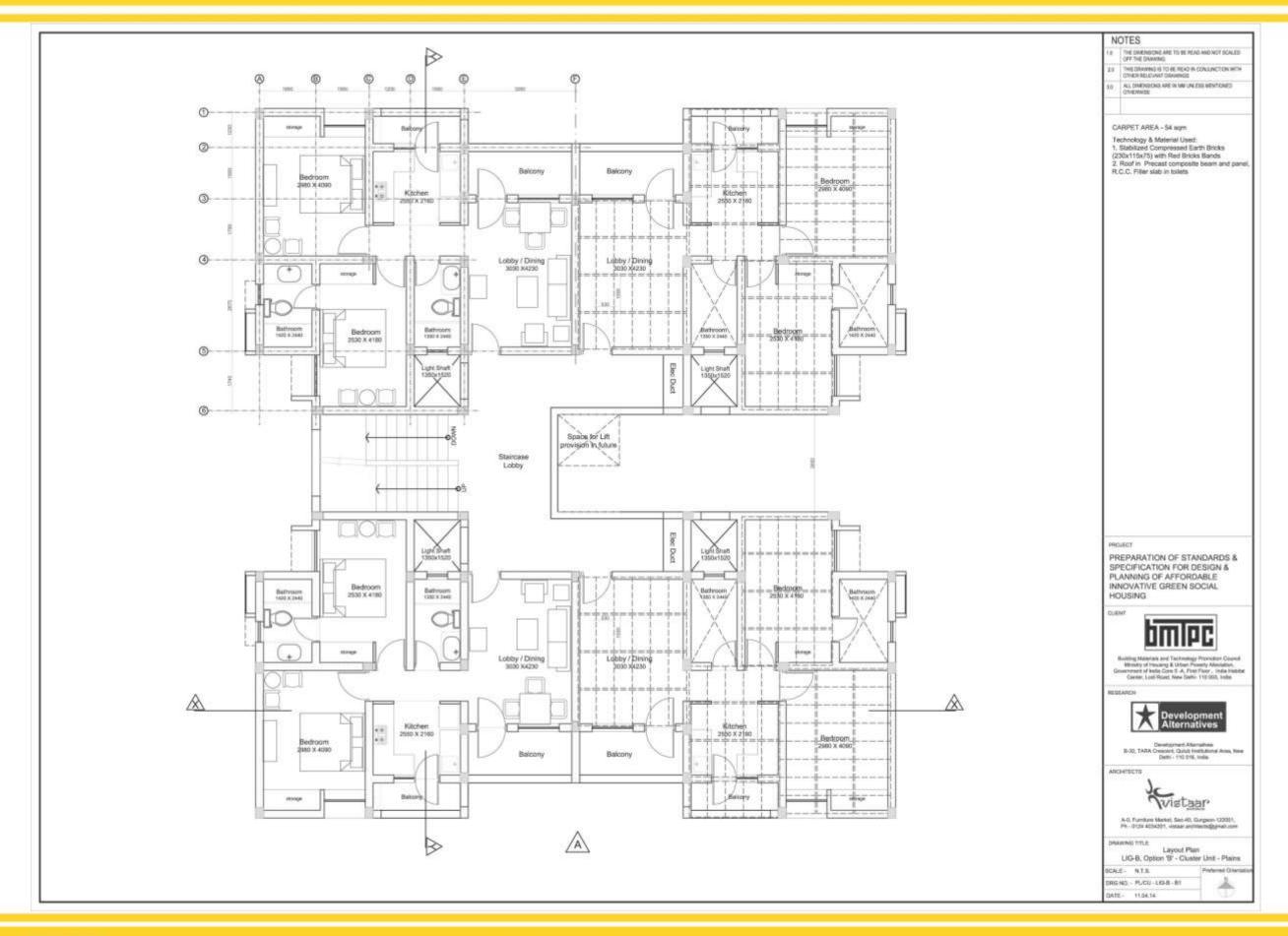
Cluster arrangement is done with four numbers of units of 2 BHK typology at one level with two on each side. The carpet area of each unit is 54 sqm. A centrally accessible stairway is provided, which is approached through a common 1500mm wide corridor and there is also an option for lift for future restorations. The habitable area is approached through a lobby with dining area leading to the master bedroom and bedroom at the front, kitchen and washroom on either side. Each unit has been provided with two balconies, accessible through kitchen and living area for proper day lighting and ventilation. Also common service ducts are designed for pipework.

The super structure is done with a combination of stabilised compressed earth blocks laid in rat- trap bond. Flooring is done with pre cast Ferro cement arch panels supported with pre- cast beams. The terrace surface is finished with broken ceramic tiles over the layer of mud phuska and hot bitumen layer of the top floor slab.

For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

The dwelling unit is designed so as to provide a flexible, adaptable and accessible environment to the user.





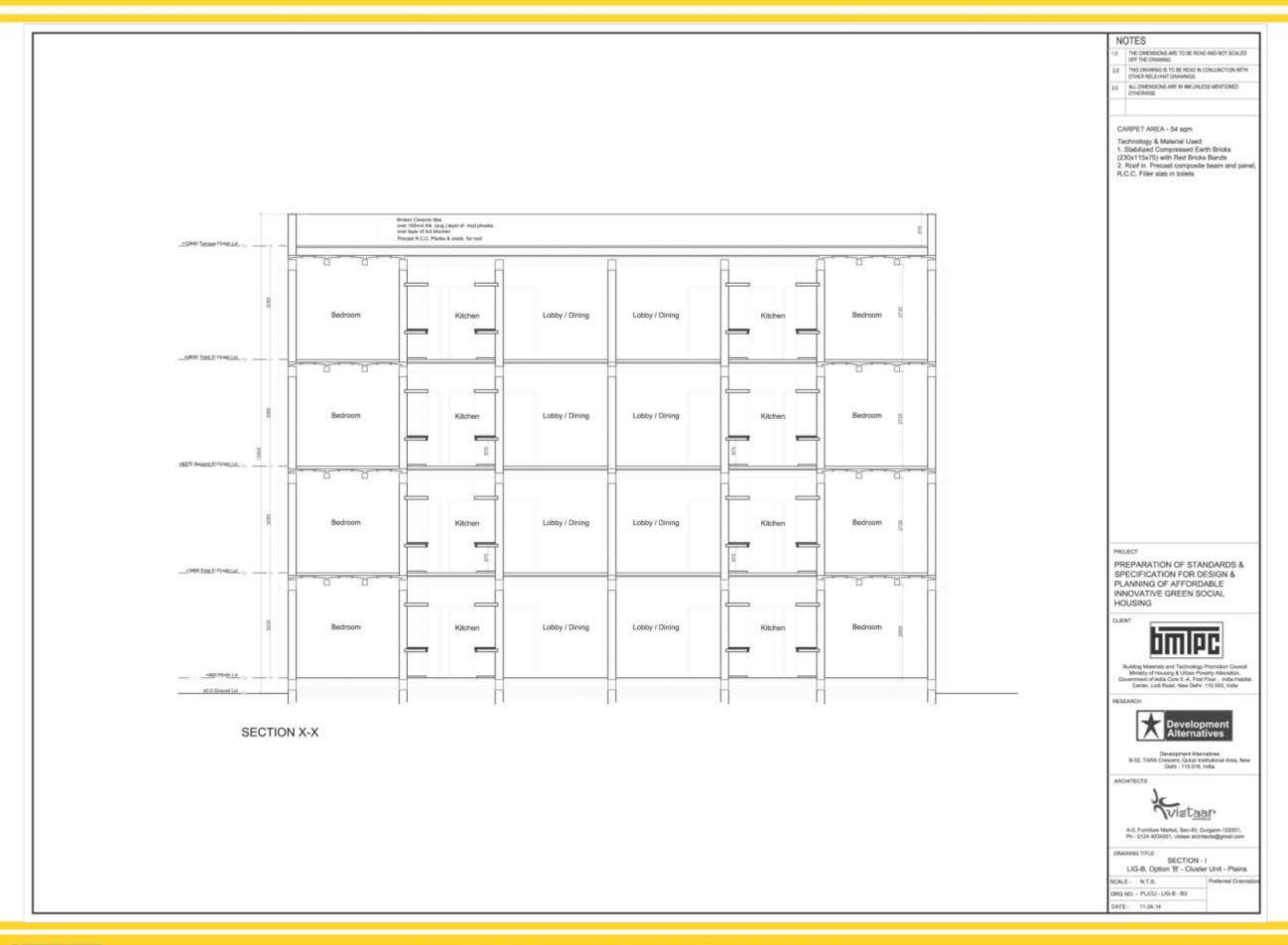






















#### ANNEXURE-I (EWS-INDIVIDUAL UNIT-OPTION-A)

S.No.	Ising Red bricks & Fly ash bricks  Description				Amount (Rs.)
A.0	Civil Works				, ,
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
6.0	Roofing				
7.0	Miscellaneous Works				
8.0	Plumbing				
9.0	Electrical				
	Total	P L . C		I	
	1. Rain water disposal has been detailed only up to down take rain water pipe. Further or E.W.S. Individual unit Option 'A' for Plains region, using Ferrocement Channels & MCFicks & Fly ash bricks	•			
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.
A.0	Civil Works				
1.0	Foundation				
1.1	Earth work in excavation	Cum			
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc., including				
	dressing of sides and ramming of bottoms, surface preparation as per specification to				
	receive the PCC, lift up to 1.5m, including getting out the excavated soil and disposal				
	of surplus excavated soil as directed, within a lead of 50m.				
1.2	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti				
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of building				
	etc. complete				
1 2	With chlorpyriphos/Landane E.C. 20% with 1% concentration	C			
1.3	Back filling of earth  Filling available even to dearth (Figlinding reall) in translage plinthesides of	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm. in depth, consolidating each deposited				
	layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	D.P.C.	Sqm	7.95		
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1	Sqiii	7.55		
	cement :2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and applying				
	a coat of residual petroleum bitumen of penetration 80/100 of approved quality.				
1.5	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including centring				
	& shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.6	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
1.7	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
1 0	including straightening, cutting, bending, placing in position and binding all complete.	C			
1.8	Brick work in foundation  Brick work with FPS bricks of class designation 75 in foundation and plinth in cement	Cum			
	mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2.0	Super structure				
2.1	Brick work in super structure	Cum	17.66		
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in	Cuill	17.00		
	cement mortar 1:4 (1 cement: 4 coarse sand) in super structure above plinth level				
	including finishing in ruled pointing on the external side of wall.				
2.2	Brick work in Red Burnt Bricks	Cum	2.26		
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure				
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse sand)		1		





#### 6(a) ANNEXURE-I (EWS-INDIVIDUAL UNIT-OPTION-A)

	including finishing in ruled pointing on the external side of wall where ever specified.			
2.3	Brick work in Parapet wall	Cum	4.00	
	Brick work with FPS bricks of class designation 75 in parapet wall in English bond in			
	cement mortar 1:6 (1 cement : 6 coarse sand)			
2.4	115mm thk brick wall	Sqm	7.35	
	Half brick masonry with FPS bricks of class designation 75 in super structure above			
	plinth level in cement mortar 1:6, including providing & placing in position 2 nos.			
	6mm dia. M.S. bars at every third course.			
2.5	Brick Jali	Sqm	1.23	
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation			
	75 in cement mortar 1:4			
2.6	R.C.C. in super structure	Cum		
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel			
	beams, roof bands, chajjas and counter & Loft slabs etc. in super structure including			
2.7	centering, shuttering complete but excluding cost of reinforcement.  Reinforcement in super structure	Va		
2.7	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft	Kg		
	slabs in super structure as specified, including straightening, cutting, bending, placing			
	in position and binding all complete.			
2.8	Plain cement concrete			
	Providing and laying plain cement concrete of specified grade as bed concrete under			
	floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding			
	at roof to required slope and other locations as called for laid, consolidated and cured			
	etc. complete as per specification and drawing.			
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	1.97	
	Total of Subhead 2.0			
3.0	Wall finishes			
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	102.18	
3.2	Lime wash	Sqm	102.18	
	Providing and applying three or more coats of white wash with lime on wall and			
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of			
	indigo blue and DDL adhesive etc. complete.			
3.3	Stone Counters	Sqm	2.40	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm			
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
2.4	complete.	C	2.05	
3.4	Coping  Describing 8 fixing 20mm this coping of burnt clay poving tile on window sill 8	Sqm	2.05	
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6			
	parapet wans in cement mortal 1.0			
3.5	Dado	Sqm	14.73	
3.3	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform	Jqiii	14.73	
	thickness, size, shade and pattern as approved by Architect/Project Manager laid with			
	rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.			
	Total of Subhead 3.0			 
4.1	IPS Flooring	Sqm	24.06	
	Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded			
	stone aggregate) in two layers; finished with a floating coat of neat cement including			
	cement slurry complete.			
4.2	IPS Skirting	Sqm	3.81	
	Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1			
<u> </u>	cement : 3 coarse sand) finished with a floating coat of neat cement.		2.50	
4.3	Ceramic tile Flooring	Sqm	2.70	
	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm			
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting,			
	etc. complete in all respects			
4.4	Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS	Sqm	6.02	
<b>-</b>	flooring	Jqiii	0.02	
4.5	Sand Filling	Cum	3.61	
	Supplying and filling in plinth with sand under floors including watering, ramming,			





#### 6(a) ANNEXURE-I (EWS-INDIVIDUAL UNIT-OPTION-A)

				T	
	consolidating, and dressing complete.				
4.6	Damp proof membrane	Sqm	24.06		
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC				
	Total of Subhead 4.0				
5.0	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing RCC Frame for door of size given below using RCC, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with				
	enamel paint of approved colour all complete.				
a)	900 x 2125mm	Nos.	3.00		
b)	750 x 2125mm	Nos.	2.00		
5.2	RCC Frame for windows & ventilators				
	Providing and fixing RCC Frame for windows & ventilators of size given below using				
	RCC, out of section 100x50mm, with double rebate and holdfasts, finished with				
	enamel paint of approved colour all complete.				
a)	1200x1200mm	Nos.	2.00		
b)	600x1050mm	Nos.	3.00		
c)	450x1050mm	Nos.	2.00		
5.3	Door Shutters				
	Providing and fixing door shutter of sizes given below of any of following material as				
	per approval by project in charge/ architect. (Note: Hardware not included in the				
	item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle				
	board panel including finishing with enamel paint of approved colour all complete.				
ii)	Wooden panelled door shutter using local wood as per approval, including providing				
	& fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in				
	panels including finishing with enamel paint of approved colour all complete.				
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt				
	edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).				
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202				
	(Part I) decorative type, core of block board construction with frame of 1st class hard				
	wood and well matched commercial 3 ply veneering with vertical grains or cross				
	bands and face veneers on both faces of shutters.				
v)	Bamboo door shutters				
a)	800 x 2075mm	Nos.	4.00		
b)	650 x 2075mm	Nos.	2.00		
5.4	Wooden Shutters for Windows & Ventilators				
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size				
	using local wood as per approval, including providing & fixing 5mm thk. clear float				
	glass of approved make, finishing with enamel paint of approved colour all complete.				
	(Note: Hardware not included in the item, to be as per selection)				
ii)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size				
	using local wood as per approval, including providing & fixing M.S. wire gauge of avg.				
	width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of				
	approved colour all complete. (Note: Hardware not included in the item, to be as per				
	selection)				
iii)	Bamboo window shutter				
a)	550x1100mm	Nos.	4.00		
b)	500x950mm	Nos.	3.00		
c)	350x950mm	Nos.	2.00		
	Total of Subhead 5.0				
6.0	Roofing				
6.1	Precast Ferro cement Channel system	Sqm	28.16		
	Providing and Laying precast Ferro cement Channels for roof as per related training				
	and including providing & laying necessary cast in situ RCC and reinforcement as				
	specified in structural drawings, centering & shuttering complete, excluding the cost				
	of reinforcement.				
6.2	Concrete Filling in Channels valley	Cum	0.50		
	Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement				
	Channels including centring & shuttering complete.		_		
6.3	Micro Concrete Tile Roofing	Sqm	3.90		
	Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and	1		1	



#### 6(a) ANNEXURE-I (EWS-INDIVIDUAL UNIT-OPTION-A)

1	fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks, joints				
	between ridge tiles on doubly pitched roofs sealed with rich cement sand mortar all				
	complete as per approval of project manager, including providing and fixing ridge				
	tiles, gutter, M.S. purlins, cleats/ flats/ angles, flashing and rafters as specified in				
	structural drawings. Work to be complete in all respect including hoisting at all				
	heights, cutting, welding, smooth grinding of all welding joints, applying derusting				
	primer coat, three or more coats of synthetic enamel paint etc. on M.S. members.				
6.4	Ceiling plaster	Sqm	Rate		
			only		
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.				
6.5	Hot Bitumen layer	Sqm	32.36		
	Providing layer of residual type petroleum bitumen of penetration 80/100 of				
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer at				
	60 cudm per 10sqm including cleaning the slab surface with brushes and finally with a				
	piece of cloth lightly soaked in kerosene oil complete.				
6.6	Mud phuska	Cum	5.63		
	Providing and laying 100mm thick (average) mud phuska of damped brick earth on				
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed with				
	bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow dung).				
6.7	Brick tiles with grouting	Sqm	28.16		
	(Providing) and laying FPS Brick tiles of class designation 75 over roof grouted with				
	cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing				
	compound by weight of cement, over a 12mm layer of cement mortar 1:3 (1 cement				
	2 fine and a divided week				
	: 3 fine sand) and finished neat.				
6.8	Cement Gola	Rmt	28.00		
6.8	,	Rmt	28.00		
6.8	Cement Gola	Rmt	28.00		
6.8	Cement Gola Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone	Rmt	28.00		
6.8	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement:	Rmt	28.00		
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous	Rmt	28.00		
	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0	Rmt	28.00		
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous				
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete				
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and				
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet				
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.	Nos	2.00		
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand	Nos	2.00		
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees,	Nos	2.00		
7.0	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.  M.S. Grill	Nos	2.00		
7.0 7.1 7.2	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.	Nos	2.00		
7.0 7.1 7.2	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.  M.S. Grill  Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed at 150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to window,	Nos	2.00		
7.0 7.1 7.2	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.  M.S. Grill  Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed at	Nos	2.00		
7.0 7.1 7.2	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.  M.S. Grill  Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed at 150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to window,	Nos	2.00		
7.0 7.1 7.2	Cement Gola  Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.  Total of Subhead 6.0  Miscellaneous  Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edges and making and finishing the outlet complete.  Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.  M.S. Grill  Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed at 150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to window, complete including grinding, providing two coats of red oxide primer and three or	Nos	2.00		



#### 6(b) ANNEXURE-II (EWS-INDIVIDUAL UNIT-OPTION-B)

S.No.	Description				Amount (Rs.
A.0	Civil Works				
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
5.0	Roofing				
7.0	Miscellaneous Works				
3.0	Plumbing				
9.0	Electrical				
	Total	P			-111111
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further o				
	or E.W.S. Individual unit Option 'B' for Plains Region, using Precast arch & panels & MCR	tiles Roof	and masonry	in Rat tra	ap bond using Fi
	s & Red bricks	I I mit	Ougatitus	Doto	Amazint /Da
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.
4.0	Civil Works				
1.0	Foundation Foundation	C			
l.1	Earth work in excavation	Cum	1		
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc., including dressing of sides and ramming of bottoms, surface preparation as per specification to				
	receive the PCC, lift up to 1.5m, including getting out the excavated soil and disposal				
	of surplus excavated soil as directed, within a lead of 50m.				
1.2	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti	Jqiii			
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of building				
	etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of				
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each deposited				
	layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	D.P.C.	Sqm	8.00		
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1				
	cement :2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and applying				
	a coat of residual petroleum bitumen of penetration 80/100 of approved quality.				
1.5	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including centring				
	& shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.6	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
1.7	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
	including straightening, cutting, bending, placing in position and binding all complete.				
1.8	Brick work in foundation	Cum			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in cement				
	mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2.0	Super structure				
2.1	Brick work in super structure	Cum	16.33		
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in rat				
	trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above				
	plinth level including finishing in ruled pointing on the external side of wall.				
2.2	Brick work in Red Burnt Bricks	Cum	3.82		
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure				
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse sand)	ı	1		





#### 6(b)

# ANNEXURE-II (EWS-INDIVIDUAL UNIT-OPTION-B)

Brick work in Parapet wall in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)  2.4 Brick Bill		including finishing in ruled pointing on the external side of wall where ever specified.			
Brick work with Fily ash bricks (FAIG bricks) conforming to class 'A' in parapet wall in English bond in cement mortar 1.6 (1 cement : 6 coarse sand)  Brick Jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1.4  2.5 115mm this brick wall Half brick masonny with Fly ash bricks (FAIG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1.6, including providing & placing in position? Ans. Simm dial. MS. bars at every third course.  2.6 R.C.C. in super structure Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chajias and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  2.7 Reinforcement in super structure Providing & fixing Reinforcement for R.C.C. work in lintel, chajias and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  3) 1.438 (I cement '4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum  2.46 Total of subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix.1:6 (I cement: 6 coarse sand). Sqm  116.05  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indige blue and DID. adhesive etc. complete.  3.3 Stone Counters  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement mortar 1:3 (1 cement 3 coarse sand			Cum	1.90	
English bond in cement mortar 1.6 (1 cement: 6 coarse sand)  8 Pirk ki Jil work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1.6 (1 cement: 6 coarse sand)  8 Jil Smm thk brick wall  1.5. 115mm thk brick wall  2.6. R.C.C. in super structure  1.6. R.C.C. work in lintel, chajias and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement concrete in lintel beams, roof bands, chajias and counter & Loft slabs is the super structure including contering, shuttering complete but excluding cost of reinforcement in super structure including straightening, cutting, bending, placing in position and binding all complete.  2.7. Reinforcement in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8. Plain cement concrete  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plint protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1.4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)  1. Providing and applying three or more coats of white wash with lime on wall and celling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3. Stone Continers  2.5. Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3: 0 carse sand).  3.5. Dado  3.6. Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3: 0 carse		·	20111	2.50	
Brick Jali work in desired pattern in parapet wall with PPS bricks of class designation   75 in cement mortar 1:4					
Brick jall work in desired pattern in parapet wall with PFS bricks of class designation 75 in Gement mortar 1.4  1.5 115mm this brick wall  Half brick masonny with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1.6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.6 R.C.C. in super structure  Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chaigs and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  2.7 Reinforcement in super structure  Providing & Ring Reinforcement for R.C.C. work in lintel, chaigs and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for faid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (I cement 2:0 corses sand 1:8 graded stone aggregate 40mm nominal size)  Cum 2:46  Total of Subhead 2:0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65  3.1 Umwash  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thik. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing and laying 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed t			Cum	0.29	
75 in cement mortar 1:4  5. 15 15mm hk brick wall  1. Half brick masonry with: Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1.5, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.6 R.C.C. in super structure  Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chajias and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  2.7 Reinforcement in super structure  Providing A fishing Reinforcement for R.C.C. work in lintel, chajias and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cili, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1.4:3 (1 cement '4 coarse sand : 8 graded stone aggregate 40mm nominal size)  Cum 2.46  Total of Subhead 2.0  3.0 Wall finishes  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Sogm 2.10  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing and laying 20mm thk. Coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement 3 flushed 3.0  1 Total of subhead					
Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'Ai' in super structure above pinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.6 R.C.C. in super structure Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chajjas and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost orienforcement.  2.7 Reinforcement in super structure Providing & Rising Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) Total of Subhead 2.0  3.0 Wall finishes  1.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  2.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  3.2 Ume wash Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DOL adhesive etc. complete.  3.3 Stone Counters  3.3 Stone Counters  4.4 Coping  2.5 Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand), Including rubbing and polishing complete.  3.4 Coping  2.5 Providing and laying and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints wi					
structure above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  R.C.C. in super structure  Providing & laying in position M-20 grade of reinforced cement concrete in linter beams, roof bands, chajjas and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  Reinforcement in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.7 Reinforcement in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cili, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  3. 14:8f Lement 4 coarse sand 1:8 graded stone aggregate 40mm nominal size)  Total of Subhead 2.0  3. Wall finishes  3. Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88:65  3. Uime wash  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3. Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm this. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3. Dado  Providing & Rixing 20mm thk. Kota stone slabs on kitchen counters laid on 20mm this cement and paing and p	2.5	115mm thk brick wall	Sqm	10.36	
position 2 nos. 6mm dia. M.S. bars at every third course.  2.6 R.C. in super structure Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chajlas and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  2.7 Reinforcement in super structure Providing & Rising Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement 4 coarse sand : 8 graded stone aggregate 40mm nominal size)  Vall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  Som 88.55  3.2 Linne wash Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters Providing and alaying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping Providing & Rising 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado Providing a Rising 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.6 Dado Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand		Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super			
Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chajias and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  2.7 Reinforcement in super structure  Providing & Rining Reinforcement for R.C.C. work in lintel, chajias and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cili, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:48 (Lement 4 coarse sand : 8 graded stone aggregate 40mm nominal size)  Total of Subhead 2.0  3.1 Malfinishes  3.2 Line wash  Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing & Rixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying 40mm thk. PS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement mortar 1:3 (1 cement: 3 flores and) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Providing		structure above plinth level in cement mortar 1:6, including providing & placing in			
Providing & Jaying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, chajas and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement.  Reinforcement in super structure  Providing & Rining Reinforcement for R.C.C. work in lintel, chajias and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  Providing and Jaying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)  Cum 2.46  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  Sqm 88.65  3.2 Ume wash  Providing and applying three or more coats of white wash with lime on wall and celling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry complete.  Total of Subhead 3.0  4.1 IPS Flooring  Providing and laying deramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry complete.  1. Positing and laying 40mm thk. IPS		position 2 nos. 6mm dia. M.S. bars at every third course.			
beams, roof bands, chajias and counter & Loft slabs etc. In super structure including centering, shuttering complete but excluding cost of reinforcement.  2.7 Reinforcement in super structure  Providing & Rixing Reinforcement for R.C.C. work in lintel, chajias and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cili, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  1:48 (1 cement 4 corase sand 18 graded stone aggregate 40mm nominal size)  Cum 2.46  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65  Providing and paplying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of incligo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing a flaying 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement surry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  1. IPS Flooring  Providing and laying 18mm thk. Cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished w	2.6	R.C.C. in super structure	Cum		
centering, shuttering complete but excluding cost of reinforcement.		Providing & laying in position M-20 grade of reinforced cement concrete in lintel			
Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  3. 1:4:8 (I cement 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum 2.46 Total of Subhead 2.0  3.1 Wall finishes 3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65 Sqm 116.05 Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado Sqm 15.55 Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 in sapproved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0 Providing and laying 13mm thk. Cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of ne					
Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.					
slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete.  2.8 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum 2.46  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 21 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65  3.2 Lime wash Providing and applying three or more coats of white wash with lime on wall and celling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and Dub Ladhesive etc. complete.  3.3 Stone Counters Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:5  Dado Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:5  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  1 PS Flooring Providing and laying 18mm thk. Cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement including cement slurry complete.  4.2 IPS Flooring Providing and laying 18mm thk. Cement plast			Kg		
in position and binding all complete.  Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  Sqm 88.65  3.2 Lime wash  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement 3 fin sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement mortar 1:3 (1 cement: 3 fins and) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  4.1 IPS Flooring  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 fins access sand), g					
Plain cement concrete   Providing plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.					
Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  Sqm 88.65  3.2 Lime wash  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement surry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  4.1 IPS Flooring  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 (1) cement: 3 coarse sand) finished with a floating coat of neat cement including cement surry complete.  4.2 IPS Flooring  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  a coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approve					
floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).  Sqm 88.65  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement surry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  4.1 IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  4.2 IPS skirting  Sqm 2.5.1  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement: 4					
at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing.  a) 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size)  Cum 2.46  Total of Subhead 2.0  3.0 Wall finishes  3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65  3.2 Lime wash  Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters  Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping  Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado  Sqm 6.40  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  4.1 IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  4.2 IPS Skirting  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring  Sqm 2.5:1  Providing and laying 2 feramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement: 4 coarse sand), grouting the joints with white cement and					
etc. complete as per specification and drawing.  a) 1.4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40mm nominal size)					
a) 1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)		· · · · · · · · · · · · · · · · · · ·			
3.0 Wall finishes 3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 88.65 3.2 Lime wash Providing and applying three or more coats of white wash with lime on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.  3.3 Stone Counters Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.  3.4 Coping Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6  3.5 Dado Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  1 Total of Subhead 3.0  4.1 IPS Flooring Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  4.2 IPS Skirting Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement including cement slury complete.  4.3 Ceramic tile Flooring Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement: 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29			Cum	2 16	
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stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  4.2 IPS Skirting Sqm 2.51  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring Sqm 2.26  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29			Sqm	25.14	
cement slurry complete.  4.2 IPS Skirting Sqm 2.51  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring Sqm 2.26  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29					
4.2 IPS Skirting Sqm 2.51  Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring Sqm 2.26  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29					
Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring Sqm 2.26  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29			Cana	2 54	
cement: 3 coarse sand) finished with a floating coat of neat cement.  4.3 Ceramic tile Flooring Sqm 2.26  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29		<u>_</u>	Sqm	2.51	
4.3 Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29					
Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29		·	C~~~	2.26	
make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29			sqm	2.20	
average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29					
joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29					
etc. complete in all respects  4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29		, , , , , , , , , , , , , , , , , , , ,			
4.4 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS Sqm 6.29					
			Sqm	6.29	
flooring		flooring	.	-	
4.5 Sand Filling Cum 4.11			Cum	4.11	
Supplying and filling in plinth with sand under floors including watering, ramming,		<u> </u>			
consolidating, and dressing complete.		consolidating, and dressing complete.			





#### 6(b)

# ANNEXURE-II (EWS-INDIVIDUAL UNIT-OPTION-B)

4.6	Damp proof membrane	Sqm	27.40		
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC				
	Total of Subhead 4.0				
5.0	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing RCC Frame for door of size given below using RCC, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with				
	enamel paint of approved colour all complete.				
a)	900 x 2125mm	Nos.	2.00		
b)	750 x 2125mm	Nos.	2.00		
5.2	RCC Frame for windows & Ventilators				
	Providing and fixing RCC Frame for windows & ventilators of size given below using				
	RCC, out of section 100x50mm, with double rebate and holdfasts, finished with				
	enamel paint of approved colour all complete.				
a)	1200x1200mm	Nos.	2.00		
b)	600x1050mm	Nos.	2.00		
c)	600x365mm	Nos.	2.00		
5.3	Door Shutters				
	Providing and fixing door shutter of sizes given below of any of following material as				
	per approval by project in charge/ architect. (Note: Hardware not included in the				
	item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle				
	board panel including finishing with enamel paint of approved colour all complete.				
ii)	Wooden panelled door shutter using local wood as per approval, including providing				
	& fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in				
	panels including finishing with enamel paint of approved colour all complete.				
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt				
	edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).				
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202				
	(Part I) decorative type, core of block board construction with frame of 1st class hard				
	wood and well matched commercial 3 ply veneering with vertical grains or cross				
	bands and face veneers on both faces of shutters.				
v)	Bamboo door shutters				
a)	800 x 2075mm	Nos.	3.00		
b)	650 x 2075mm	Nos.	2.00		
5.4	Window Shutters				
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size				
	using local wood as per approval, including providing & fixing 5mm thk. clear float				
	glass of approved make, finishing with enamel paint of approved colour all complete.				
::\	(Note: Hardware not included in the item, to be as per selection)				
ii)	Providing and fixing Wooden panelled shutter for window of given size using local				
	wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved				
	colour all complete. (Note: Hardware not included in the item, to be as per selection)				
iii)	Bamboo window shutter				
a)	550x1100mm	Nos.	4.00		
b)	500x950mm	Nos.	2.00	+	
b)	500x265mm		2.00	+	
υj	Total of Subhead 5.0	Nos.	2.00	+	
6.0	Roofing			+	
6.1	Precast Arch Panel system	Sam	34.60	+	
0.1	Providing and Laying precast Arch Panels & Precast RCC Beams for roof as per related	Sqm	34.00	+	
	training and including providing & laying necessary cast in situ RCC and reinforcement				
	as specified in structural drawings, centering & shuttering complete, excluding the				
	as specified in structural drawings, centering & structuring complete, excluding the				
	cost of reinforcement.		1		
6.2	cost of reinforcement.  Micro Concrete Tile Roofing	Sam	2 // 2		
6.2	Micro Concrete Tile Roofing	Sqm	3.43		
6.2	Micro Concrete Tile Roofing Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and	Sqm	3.43		
6.2	Micro Concrete Tile Roofing  Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks, joints	Sqm	3.43		
6.2	Micro Concrete Tile Roofing  Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks, joints between ridge tiles on doubly pitched roofs sealed with rich cement sand mortar all	Sqm	3.43		
6.2	Micro Concrete Tile Roofing  Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks, joints	Sqm	3.43		





#### 6(b)

# ANNEXURE-II (EWS-INDIVIDUAL UNIT-OPTION-B)

	T	1	T	1
	heights, cutting, welding, smooth grinding of all welding joints, applying derusting			
	primer coat, three or more coats of synthetic enamel paint etc. on M.S. members.	6	27.40	
6.3	Ceiling plaster	Sqm	27.40	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.			
6.4	Hot Bitumen layer	Sqm	38.05	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer at			
	60 cudm per 10sqm including cleaning the slab surface with brushes and finally with a			
	piece of cloth lightly soaked in kerosene oil complete.		- 10	
6.5	Mud phuska	Cum	5.48	
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed with			
	bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow dung).			
6.6	Ceramic broken tiles	Sqm	27.40	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps with			
	cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water proofing			
	compound laid over a bed of 20mm thk cement mortar 1:4 and finished neat			
	complete.		22.00	
6.7	Cement Gola	Rmt	23.00	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement:			
	3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 450x 450 with average minimum thickness of 50mm cement concrete	Nos	2.00	
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and			
	a coat of neat cement rounding the edges and making and finishing the outlet			
	complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand	Rmt	6.00	
	a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees,			
	clamps, Y - Junction with cover (for collecting rainwater) including testing of joints			
	etc. complete.			
7.3	M.S. Grill	Sqm	4.70	
	Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed at			
	150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to window,			
	complete including grinding, providing two coats of red oxide primer and three or			
	more coats of synthetic enamel paint of approved colour.			
7.4	Concrete jali	Sqm	1.80	
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with			
	cement mortar 1:4.			
	Total of Subhead 7.0			
	Total of "A'			





S.No.	Description				Amount (Rs.)
A.0	Civil Works				, ,
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
6.0	Roofing				
7.0	Miscellaneous				
3.0	Plumbing				
9.0	Electrical				
	Total				
Note:	Estimated Cost is the cost of complete cluster (16 units)				
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further of	disposal of	rain water to	be as pe	r site situation.
BOQ for	Cluster unit EWS Option 'A' for Plains Region, using Precast Precast Ferro cement char	nel Roof	and masonry	in Fly asl	n bricks in Rat tra
Bond w	ith Red Bricks Bands				
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
۸.0	Civil Works				
.0	Foundation				
l.1	Earth work in excavation	Cum			
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc., including				
	dressing of sides and ramming of bottoms, surface preparation as per specification to				
	receive the PCC, lift up to 1.5m, including getting out the excavated soil and disposal				
	of surplus excavated soil as directed, within a lead of 50m.				
L. <b>2</b>	Anti-termite treatment				
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti	Sqm			
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of building				
	etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth				
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of	Cum			
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each deposited				
	layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including centring				
	& shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)				
o)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.5	R.C.C. up to plinth level				
	Providing & laying in position M-20 grade of reinforced cement concrete including	Cum			
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
1.6	Reinforcement up to plinth level				
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,	Kg			
	including straightening, cutting, bending, placing in position and binding all complete.				
1.7	Brick work in foundation	_			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in cement	Cum			
	mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2.0	Super structure		246.5-		
2.1	Brick work in super structure		216.25		
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in rat	Cum			
	trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above				
	plinth level including finishing in ruled pointing on the external side of wall.		10.51		
2.2	Brick work in Red Burnt Bricks		10.01		
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure	Cum			
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse sand)				
	including finishing in ruled pointing on the external side of wall where ever specified.	Ī	1		I
2.3	Brick work in Parapet wall		20.48		





	English bond in cement mortar 1:6 (1 cement : 6 coarse sand)			
2.4	115mm thk brick wall		336.00	
	Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super	Sqm		
	structure above plinth level in cement mortar 1:6, including providing & placing in			
	position 2 nos. 6mm dia. M.S. bars at every third course.			
2.4	Brick Jali		10.35	
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation	Cum		
	75 in cement mortar 1:4			
2.5	R.C.C. in super structure			
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel	Cum		
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,			
	shuttering complete but excluding cost of reinforcement.		1	
2.6	Reinforcement in super structure			
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft	Kg		
	slabs in super structure as specified, including straightening, cutting, bending, placing			
2.7	in position and binding all complete.			
2.7	Plain cement concrete  Providing and laving plain compart concrete of specified grade as had concrete under			
	Providing and laying plain cement concrete of specified grade as bed concrete under			
	floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and cured			
	etc. complete as per specification and drawing.			
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)		37.27	
-,	Total of Subhead 2.0		- "	
3.0	Wall finishes	1		
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	1	2140.00	
3.2	Lime wash		2272.00	
	Providing and applying three or more coats of white wash with lime on wall and	Sqm		
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of			
	indigo blue and DDL adhesive etc. complete.			
3.3	Stone Counters		30.40	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm	Sqm		
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
	complete.			
3.4	Coping		31.94	
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	Sqm		
	parapet walls in cement mortar 1:6		250 44	
3.5	Dado		259.44	
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform	Sqm		
	thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.			
	Total of Subhead 3.0			
4.0	Flooring			
4.1	IPS Flooring		512.40	
	Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded	Sqm		
	stone aggregate) in two layers; finished with a floating coat of neat cement including			
	cement slurry complete.			
4,2	IPS Skirting		54.86	
	Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar	Sqm		
	1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.			
4.3	Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width,		56.00	
	including cost of forming, nosing etc.	<u> </u>		
4.4	Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS		113.30	
4.5	flooring		44.00	
4.5	Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	Com	44.80	
	make, shade and pattern as approved by Project in charge laid over 20/12 mm	Sqm		
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the			
	joints with white cement and pigment to match the shade of tile including cutting,			
	etc. complete in all respects			
1.6	Sand Filling		15.60	
4.0				
4.6	Supplying and filling in plinth with sand under floors including watering, ramming,	Cum	15.00	





	Total of Subhead 4.0				
5.0	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing RCC Frame for door of size given below, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with				
	enamel paint of approved colour all complete.				
a)	900x2085mm		48.00		
b)	750x2085mm	Nos.	32.00		
5.2	RCC Frame for windows & ventilators				
	Providing and fixing RCC for windows & ventilators of size given below, out of section				
	100x50mm, with double rebate and holdfasts, finished with enamel paint of				
	approved colour all complete.				
a)	1200x1200 mm		32.00		
b)	600x1050 mm	Nos.	48.00		
c)	600x500 mm	Nos.	48.00		
5.3	Door Shutters				
	Providing and fixing door shutter of sizes given below of any of following material as				
	per approval by project in charge/ architect. (Note: Hardware not included in the				
	item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle				
	board / M.S. jali as per requirement of panel including finishing with enamel paint of				
	approved colour all complete.				
ii)	Wooden panelled door shutter using local wood as per approval, including providing				
	& fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in				
:::\	panels including finishing with enamel paint of approved colour all complete.		+		
iii)	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt				
	edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).				
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202				
,	(Part I) decorative type, core of block board construction with frame of 1st class hard				
	wood and well matched commercial 3 ply veneering with vertical grains or cross				
	bands and face veneers on both faces of shutters.				
v)	Bamboo door shutters				
a)	800x2035mm	Nos.	48.00		
b)	650x2035mm	Nos.	32.00		
5.4	Window Shutters for windows & ventilators				
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size				
	using local wood as per approval, including providing & fixing 5mm thk. clear float				
	glass of approved make, finishing with enamel paint of approved colour all complete.				
	(Note: Hardware not included in the item, to be as per selection)				
ii)	Providing and fixing Wooden panelled shutter for windows ventilators of given size				
	using local wood as per approval, including providing & fixing M.S. wire gauge of avg.				
	width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of				
	approved colour all complete. (Note: Hardware not included in the item, to be as per				
\	selection)				
iii)	Bamboo Window Shutters	N1	64.00	1	
a)	550x1100 mm	Nos.	64.00		
p)	500x950 mm	Nos.	48.00	<b> </b>	
c)	500x400 mm	Nos.	48.00		
	Total of Subhead 5.0		+		
6.0	Roofing		502.00	<b> </b>	+
6.1	Precast Ferro cement Channel system	C	592.00		
	Providing and Laying precast Ferro cement Channels for roof as per related training	Sqm			
	and including providing & laying necessary cast in situ RCC and reinforcement as				
	specified in structural drawings, centering & shuttering complete, excluding the cost				
6.2	of reinforcement.	+	0 22		
6.2	Concrete Filling in Channels valley	Cum	8.32	<del>                                     </del>	
	Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement	Cum			
6.2	Channels including centring & shuttering complete.		122.00		
6.3	Ceiling plaster  Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.	Sam	132.00	<del> </del>	
6.4	Sunken area filling	Sqm	25.38		
0.4	Junicen area mining	1	23.30	1	1





#### **6**(c)

	T			1	T
	Providing and laying on sunken areas broken light weight concrete block bats of	Cum			
	approximately 600 kg. per cum density laid, consolidated, finished smooth, including				
	finished & grouting the top layer with water proof cement mortar with CICO or				
	equivalent brand.				
6.5	Hot Bitumen layer		176.90		
	Providing layer of residual type petroleum bitumen of penetration 80/100 of	Sqm			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer at				
	60 cudm per 10sqm including cleaning the slab surface with brushes and finally with a				
	piece of cloth lightly soaked in kerosene oil complete.				
6.6	Mud phuska		33.40		
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on	Cum			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed with				
	bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow dung).				
6.7	Ceramic broken tiles		167.00		
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps with	Sqm			
	cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water proofing				
	compound laid over a bed of 20mm thk cement mortar 1:4 and finished neat				
	complete.				
6.7	Cement Gola		66.00		
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone	Rmt			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement:				
	3 sand) as per standard design.				
	Total of Subhead 6.0				
7.0	Miscellaneous				
7.1	Making khurras 450x450 with average minimum thickness of 50mm cement concrete		8.00		
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and				
	a coat of neat cement rounding the edges and making and finishing the outlet				
	complete.				
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand		104.00		
	a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees,				
	clamps, Y - Junction with cover (for collecting rainwater) including testing of joints				
	etc. complete.				
	Total of Subhead 7.0		1	1	
	Total of "A'				



	of BOQ for Cluster unit EWS Option 'B' for Plains Region, using Precast Brick Arch Pan Bricks Bands	el Roof an	d masonry in	Fly ash b	ricks in Rat trap Bond
					Amount (Da )
S.No.	Description Civil Manua				Amount (Rs.)
A.0	Civil Works				
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
6.0	Roofing				
7.0	Miscellaneous				
8.0					
	Plumbing				
9.0	Electrical				
	Total				
Note:	Estimated Cost is the cost of complete cluster (16 units)				
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further				
BOQ for Cl Bricks Ban	luster unit EWS Option 'B' for Plains Region, using Precast Brick Arch Panel Roof and	masonry i	n Fly ash bric	ks in Rat	trap Bond with Red
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works		auntity		
			+		
1.0	Foundation		+		
1.1	Earth work in excavation	Cum			
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,				
	including dressing of sides and ramming of bottoms, surface preparation as per				
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated				
	soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
1.2	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti	<b>5</b> 4			
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of				
	building etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of				
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each				
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	PCC in foundation				
	(Providing) & lying in position cement concrete of specified grade including centring				
	& shuttering complete - All work up to plinth level.				
- \		6	-		
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	+		
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.5	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
1.6	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
	including straightening, cutting, bending, placing in position and binding all				
	complete.				
17	'	C	+		
1.7	Brick work in foundation	Cum			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in				
	cement mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2.0	Super structure				
2.1	Brick work in super structure	Cum	203.91		
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in	1			
	rat trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure				
	above plinth level including finishing in ruled pointing on the external side of wall.				
2.2		Cum	0.60		
2.2	Brick work in Red Burnt Bricks	Cum	9.68		
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure				





		1		1
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse			
	sand) including finishing in ruled pointing on the external side of wall where ever			
	specified.			
2.3	Brick work in Parapet wall	Cum	29.76	
	Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in parapet wall			
	in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)			
2.4		Cana	145.44	
2.4	115mm thk brick wall	Sqm	145.44	
	Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super			
	structure above plinth level in cement mortar 1:6, including providing & placing in			
	position 2 nos. 6mm dia. M.S. bars at every third course.			
2.4	Brick Jali	Cum	14.04	
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation			
	75 in cement mortar 1:4			
2.5	R.C.C. in super structure	Cum		
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel			
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,			
	shuttering complete but excluding cost of reinforcement.			
2.6	Reinforcement in super structure	Kg		
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &			
	Loft slabs in super structure as specified, including straightening, cutting, bending,			
	placing in position and binding all complete.			
2.7	Plain cement concrete			
	Providing and laying plain cement concrete of specified grade as bed concrete			
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.			
	screeding at roof to required slope and other locations as called for laid,			
	consolidated and cured etc. complete as per specification and drawing.			
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	37.92	
	Total of Subhead 2.0			
3.0	Wall finishes			
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2339.14	
3.2	Lime wash	Sqm	3103.54	
J.2	Providing and applying three or more coats of white wash with lime on wall and	Jqiii	3103.54	
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing			
	of indigo blue and DDL adhesive etc. complete.			
3.3	Stone Counters	Sqm	32.50	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm			
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
	complete.			
3.4	Coping	Sqm	25.92	
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	<b>5</b> 4	20.52	
	parapet walls in cement mortar 1:6			
			212.12	
3.5	Dado	Sqm	213.12	
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform			
	thickness, size, shade and pattern as approved by Architect/Project Manager laid			
	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1			
	with rich cement sturry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.			
4.0	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0			
4.0	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring	Cam	406 64	
4.0	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring	Sqm	496.64	
	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4	Sqm	496.64	
	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring	Sqm	496.64	
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4	Sqm	496.64	
	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement	Sqm	496.64	
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.			
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement			
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.	Sqm	64.05	
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width,			
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.	Sqm Sqm	64.05	
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS	Sqm	64.05	
4.1 4,2 4.3 4.4	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring	Sqm Sqm Sqm	64.05 54.00 114.56	
4.1	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring  Ceramic tile Flooring	Sqm Sqm	64.05	
4.1 4,2 4.3 4.4	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring  Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	Sqm Sqm Sqm	64.05 54.00 114.56	
4.1 4,2 4.3 4.4	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring  Ceramic tile Flooring	Sqm Sqm Sqm	64.05 54.00 114.56	
4.1 4,2 4.3 4.4	cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  IPS Flooring  Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) in two layers; finished with a floating coat of neat cement including cement slurry complete.  IPS Skirting  Providing and laying 18mm thk. cement plaster skirting & risers with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.  Extra for laying IPS flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring  Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	Sqm Sqm Sqm	64.05 54.00 114.56	





5.0 5.1	joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects  Sand Filling  Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete.  Total of Subhead 4.0  Door Windows  RCC Frame for door	Cum	31.80	
5.0	Sand Filling Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete.  Total of Subhead 4.0  Door Windows  RCC Frame for door	Cum	31.80	
5.0	Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete.  Total of Subhead 4.0  Door Windows  RCC Frame for door	Cum	31.80	
	consolidating, and dressing complete.  Total of Subhead 4.0  Door Windows  RCC Frame for door			
	Total of Subhead 4.0 Door Windows RCC Frame for door			
	Door Windows RCC Frame for door			
	RCC Frame for door			
5.1				
	Providing and fixing RCC Frame for door of size given below, out of section			
	100x50mm, with single or double rebate as required, with holdfasts, finished with			
	enamel paint of approved colour all complete.			
a)	900x2085 mm	Nos.	48.00	
b)	750x2085 mm	Nos.	32.00	
5.2	RCC Frame for windows			
	Providing and fixing RCC Frame for window of size given below, out of section			
	100x50mm, with double rebate and holdfasts, finished with enamel paint of			
	approved colour all complete.			
a)	1200x1200mm	Nos.	32.00	
b)	600x1050mm	Nos.	48.00	
c)	1200x385mm	Nos.	32.00	
d)	600x385mm	Nos.	48.00	
5.3	Door Shutters			
	Providing and fixing door shutter of sizes given below of any of following material			
	as per approval by project in charge/ architect. (Note: Hardware not included in			
	the item, to be as per selection)			
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk.			
'/	particle board panel including finishing with enamel paint of approved colour all			
	complete.			
ii)	Wooden panelled door shutter using local wood as per approval, including			
,	providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia			
	0.63mm in panels including finishing with enamel paint of approved colour all			
	complete.			
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC			
,	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt			
	edging on both sides. Complete as per manufacturer's specification and direction of			
	Engineer-in-charge. (For W.C. and bathroom door shutter).			
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS:			
,	2202 (Part I) decorative type, core of block board construction with frame of 1st			
	class hard wood and well matched commercial 3 ply veneering with vertical grains			
	or cross bands and face veneers on both faces of shutters.			
v)	Bamboo door shutters			
a)	800x2035mm	Nos.	64.00	
b)	650x2035mm	Nos.	32.00	
5.4	Window Shutters for windows & ventilators	1403.	32.00	
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given			
',	size using local wood as per approval, including providing & fixing 5mm thk. clear			
	float glass of approved make, finishing with enamel paint of approved colour all			
	complete. (Note: Hardware not included in the item, to be as per selection)			
a)	550x1100mm	Nos.	64.00	
a) b)	500x950mm		48.00	
		Nos.		
c)	550x285mm	Nos.	64.00	
d)	500x285mm  Providing and fiving Wooden nanelled shutter for windows wentileters of given	Nos.	48.00	
ii)	Providing and fixing Wooden panelled shutter for windows ventilators of given			
	size using local wood as per approval, including providing & fixing M.S. wire gauge			
	of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel			
	paint of approved colour all complete. (Note: Hardware not included in the item, to			
:::\	be as per selection)		+	
iii)	Bamboo Window Shutters	NI	64.00	
a)	550x1100mm	Nos.	64.00	
b)	500x950mm	Nos.	48.00	
c)	550x285mm	Nos.	64.00	
d)	500x285mm	Nos.	48.00	
	Total of Subhead 5.0		<u> </u>	
6.0	Roofing			





6.1	Precast Arch Panel system	Sqm	608.00	
	Providing and Laying precast Arch Panels & Precast RCC Beams for roof as per			
	related training and including providing & laying necessary cast in situ RCC and			
	reinforcement as specified in structural drawings, centering & shuttering complete,			
	excluding the cost of reinforcement.			
6.2	Ceiling plaster	Sqm	764.40	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in			
	ceiling.			
6.3	Sunken area filling	Cum	26.40	
	Providing and laying on sunken areas broken light weight concrete block bats of			
	approximately 600 kg. per cum density laid, consolidated, finished smooth,			
	including finished & grouting the top layer with water proof cement mortar with			
	CICO or equivalent brand.			
6.4	Hot Bitumen layer	Sqm	162.50	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.5	Mud phuska	Cum	30.40	
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).		150.00	
6.6	Ceramic broken tiles	Sqm	152.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished neat complete.			
6.7	Cement Gola	Rmt	7.00	
0.7	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone	IXIIIC	7.00	
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete	Nos	6.00	
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3			
	and a coat of neat cement rounding the edges and making and finishing the outlet			
	complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	78.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,			
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.			
	Total of Subhead 7.0			
	Total of "A'			



Summary	r of BOQ for LIG'A' Individual unit Option 'A' for Plains Region, using Filler slab Roof an	d masonry	work in Fly	ash bricks	s in combination with
red bricks		uuso,	,,	asii siiici	om combination with
S.No.	Description				Amount (Rs.)
A.0	Civil Works				
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
6.0	Roofing				
7.0	Miscellaneous Works				
8.0	Plumbing				
9.0	Electrical				
	Total				
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further	er disposal	of rain water	to be as	per site situation.
	LIG'A' Individual unit Option 'A' for Plains Region, using Filler slab Roof and masonry w				•
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works		1		
1.0	Foundation				
1.1	Earth work in excavation	Cum			
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,				
	including dressing of sides and ramming of bottoms, surface preparation as per				
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated				
	soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
1.2	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti				
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of				
	building etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of				
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each				
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	D.P.C.	Sqm	8.31		
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1				
	cement :2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and				
	applying a coat of residual petroleum bitumen of penetration 80/100 of approved				
	quality.				
1.5	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including				
	centring & shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.6	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.	1	1		
1.7	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,	Ī			
	including straightening, cutting, bending, placing in position and binding all				
	complete.	1	1		
1.8	Brick work in foundation	Cum			
	Brick work with it Fly ash bricks (FALG bricks) conforming to class 'A' in foundation				
	and plinth in cement mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0	1	1		
2.0	Super structure	1	1		
2.1	Brick work in Fly ash bricks	Cum	13.44		
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in		1		
	rat trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure				
	above plinth level including finishing in ruled pointing on the external side of wall.	1			
2.2	Brick work in Red Burnt Bricks	Cum	5.52		
	Brick work in FPS bricks of class designation 75 in super structure above plinth level	1	1	1	1





	in desired pattern in cement mortar 1:4 (1 cement : 4 coarse sand) including				
	finishing in ruled pointing on the external side of wall where ever specified.				
2.3	115mm thk brick wall	Sqm	7.71		
	Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super	i i			
	structure above plinth level in cement mortar 1:6, including providing & placing in				
	position 2 nos. 6mm dia. M.S. bars at every third course.				
2.4	Red Brick Jali	Cum	0.59		
2.4		Cum	0.59		
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation				
	75 in cement mortar 1:4				
2.5	Brick work in Parapet wall	Cum	3.31		
	Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in parapet wall				
	in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)				
2.6	R.C.C. in super structure	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel				
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,				
	shuttering complete but excluding cost of reinforcement.				
2.7	Reinforcement in super structure	Kg			
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &				
	Loft slabs in super structure as specified, including straightening, cutting, bending,				
	placing in position and binding all complete.				
2.8	Plain cement concrete				
	Providing and laying plain cement concrete of specified grade as bed concrete				
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.				
	screeding at roof to required slope and other locations as called for laid,				
	, , ,				
	consolidated and cured etc. complete as per specification and drawing.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	2.66		
	Total of Subhead 2.0				
3.0	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	110.33		
3.2	Lime wash	Sqm	152.83		
	Providing and applying three or more coats of white wash with lime on wall and	Sqiii	132.03		
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing				
	of indigo blue and DDL adhesive etc. complete.	_			
3.3	Stone Counters	Sqm	2.15		
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm				
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing				
	complete.				
3.4	Coping	Sqm	7.30		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	<u> </u>			
	parapet walls in cement mortar 1:6				
2.5	• •	C	12.77		
3.5	Dado	Sqm	13.77		
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform				
	thickness, size, shade and pattern as approved by Architect/Project Manager laid				
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1				
	cement: 3 fine sand) and grouting the joints with white cement and pigment with				
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.				
	Total of Subhead 3.0				
4.0	Flooring		1		
4.1	Terrazzo Tile Flooring	Sam	30.28		
4.1		Sqm	30.20		
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of				
	size up to 12mm, Light shade using white cement, laid in floors, jointed with neat				
	cement slurry mixed with pigment to match the shade of the tiles including rubbing				
	and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4				
	(1 cement :4 coarse sand)				
4.2	Paving Tiles flooring	Sqm	9.70		
	Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of				
	cement mortar 1:4 (1 cement :4 coarse sand), jointed with neat cement slurry				
	mixed with pigment to match the shade of the tiles including rubbing and polishing				
	complete				
4.3	Terrazzo Tile Skirting	Sqm	3.24		
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of				
	size up to 12mm, Light shade using white cement, in skirting jointed with neat				
		1	1		
	cement slurry mixed with pigment to match the shade of the tiles including rubbing			l	





#### 6(d)

	cement : 3 coarse sand)				
4.4	Ceramic tile Flooring	Sqm	2.72		
7.7	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	Jqiii	2.72		
	make, shade and pattern as approved by Project in charge laid over 20/12 mm				
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the				
	joints with white cement and pigment to match the shade of tile including cutting,				
	etc. complete in all respects				
4.5	Sand Filling	Cum	6.38		
4.3	Supplying and filling in plinth with sand under floors including watering, ramming,	Cuiii	0.36		
	consolidating, and dressing complete.				
	Total of Subhead 4.0		+		
г о	Door Windows				
5.0 5.1	RCC Frame for door				
5.1					
	Providing and fixing RCC Frame for door of size given below, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with				
- \	enamel paint of approved colour all complete.	N1	2.00		
a)	900 x 2125mm	Nos.	3.00		
b)	750 x 2125mm	Nos.	2.00		
5.2	RCC Frame for windows & ventilators				
	Providing and fixing RCC Frame for windows & ventilators of size given below, out				
	of section 100x50mm, with double rebate and holdfasts, finished with enamel paint				
	of approved colour all complete.				
a)	1200x1200mm	Nos.	2.00		
b)	600x1050mm	Nos.	4.00		
c)	1200x500mm	Nos.	2.00		
d)	600x500mm	Nos.	4.00		
5.3	Door Shutters				
	Providing and fixing door shutter of sizes given below of any of following material				
	as per approval by project in charge/ architect. (Note: Hardware not included in				
	the item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk.				
	particle board / M.S. jali as per requirement of panel including finishing with				
	enamel paint of approved colour all complete.				
ii)	Wooden panelled door shutter using local wood as per approval, including				
	providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia				
	0.63mm in panels including finishing with enamel paint of approved colour all				
	complete.				
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt				
	edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).				
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS:				
	2202 (Part I) decorative type, core of block board construction with frame of 1st				
	class hard wood and well matched commercial 3 ply veneering with vertical grains				
	or cross bands and face veneers on both faces of shutters.		1		
v)	Bamboo door shutters				
a)	800 x 2075mm	Nos.	5.00		
b)	650 x 2075mm	Nos.	2.00		
5.4	Window Shutters for windows & ventilators				
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given				
	size using local wood as per approval, including providing & fixing 5mm thk. clear				
	float glass of approved make, finishing with enamel paint of approved colour all				
	complete. (Note: Hardware not included in the item, to be as per selection)				
a)	550x1100mm	Nos.	4.00		
b)	500x950mm	Nos.	4.00		
c)	1100x400mm	Nos.	2.00		
d)	500x400mm	Nos.	4.00		
ii)	Providing and fixing Wooden panelled shutter for windows & ventilators of given				
	size using local wood as per approval, including providing & fixing M.S. wire gauge				
	of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel				
	paint of approved colour all complete. (Note: Hardware not included in the item, to				
	be as per selection)		<u> </u>		
iii)	Bamboo Window Shutter				
a)	550x1100mm	Nos.	4.00		
	•	-	•	•	





#### 6(d)

b)	500x950mm	Nos.	4.00	
c)	1100x400mm	Nos.	2.00	
d)	500x400mm	Nos.	4.00	
,	Total of Subhead 5.0			
6.0	Roofing			
6.1	Filler material for Filler slab	Sqm	52.00	
	Providing & laying as per instruction, stabilised mud blocks 50mm thk. during			
	casting of Filler slab.			
6.3	Ceiling plaster	Sqm	42.50	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in			
	ceiling.			
6.4	Hot Bitumen layer	Sqm	49.05	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.5	Mud phuska	Cum	9.00	
	Providing and laying 100mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).			
6.6	Ceramic broken tiles	Sqm	45.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
6.7	neat complete.	DI	27.00	
6.7	Cement Gola	Rmt	27.00	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete	Nos	2.00	
7.1	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3	1403	2.00	
	and a coat of neat cement rounding the edges and making and finishing the outlet			
	complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	6.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,			
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.			
7.3	M.S. Grill	Sqm	6.00	
	Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed			
	at 150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to			
	window, complete including grinding, providing two coats of red oxide primer and			
	three or more coats of synthetic enamel paint of approved colour.			
7.4	Concrete jali	Sqm	1.70	
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with			
	cement mortar 1:4.			
	Total of Subhead 7.0			
	Total of "A'			





S.No.	Description				Amount (Rs.)
۸.0	Civil Works				
.0	Foundation				
.0	Super structure				
.0	Wall finishes				
.0	Flooring				
5.0	Door & Windows				
5.0	Roofing				
'.0	Miscellaneous Works				
3.0	Plumbing				
0.0	Electrical				
latai	Total	licaccal of	rain water to	ho oo nor	sita situation
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further o	•		•	
	or LIG'A' Individual unit Option 'B' for Plains Region, using Precast Planks - Joist & Microessed Earth Hydra form Blocks	Concrete	illes Root and	a masonry	work in Stabilised
.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
4.0	Civil Works	Oilit	Quantity	Nate	Amount (Ks.)
0	Foundation				
1	Earth work in excavation	Cum			
••	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in	Cuili		+	
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc., including				
	dressing of sides and ramming of bottoms, surface preparation as per specification to				
	receive the PCC, lift up to 1.5m, including getting out the excavated soil and disposal				
	of surplus excavated soil as directed, within a lead of 50m.				
.2	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti				
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of building				
	etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
L <b>.3</b>	Back filling of earth	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of				
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each deposited				
	layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
.4	D.P.C.	Sqm	9.24		
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1				
	cement :2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and applying				
	a coat of residual petroleum bitumen of penetration 80/100 of approved quality.				
l.5	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including centring				
.1	& shuttering complete - All work up to plinth level.	Cum			
ı) o)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size) 1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum Cum			
6	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including	Cuili		+	
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
7	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,	מיי			
	including straightening, cutting, bending, placing in position and binding all complete.				
.8	Brick work in foundation	Cum			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in cement	20.11			
	mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
.0	Super structure				
.1	masonry work in super structure	Sqm	187.40		
	220mm thk. masonry work using Stabilised, Hydraulically Compressed Earth Blocks in	- 4			
	super structure above plinth level as per the guidelines of Hydra form construction				
	manual.				
.2	115 thk. wall	Sqm	17.92		
	115mm thk. masonry work using Stabilised, Hydraulically Compressed Earth Blocks				
	in super structure above plinth level as per the guidelines of Hydra form construction		1		





#### 6(e)

			1		
	manual.		2.5.	1	
2.3	Red Brick Bands	Cum	2.24		
	Brick work in FPS bricks of class designation 75 in super structure above plinth level in				
	desired pattern in cement mortar 1:4 (1 cement : 4 coarse sand) including finishing in				
2.4	ruled pointing on the external side of wall where ever specified.	Cam	0.60		
2.4	Red Brick Jali	Sqm	0.60		
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4				
2.5	R.C.C. in super structure	Cum			
2.5	Providing & laying in position M-20 grade of reinforced cement concrete in lintel	Cum			
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,				
	shuttering complete but excluding cost of reinforcement.				
2.6	Reinforcement in super structure	Kg			
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter & Loft				
	slabs in super structure as specified, including straightening, cutting, bending, placing				
	in position and binding all complete.				
2.7	Plain cement concrete				
	Providing and laying plain cement concrete of specified grade as bed concrete under				
	floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc. screeding				
	at roof to required slope and other locations as called for laid, consolidated and cured				
<u> </u>	etc. complete as per specification and drawing.	-		1	
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	3.48		
	Total of Subhead 2.0				
3.0	Wall finishes	-	4000:	ļ	
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	100.31		
3.2	Lime wash	Sqm	139.31	<u> </u>	
	Providing and applying three or more coats of white wash with lime on wall and				
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete.				
3.3	Stone Counters	Sqm	3.15		
3.3	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm	Jqiii	3.13		
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing				
	complete.				
3.4	Coping	Sqm	8.77		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	Sqiii			
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6	Sqiii			
3.5		Sqm	20.62		
3.5	parapet walls in cement mortar 1:6	-	20.62		
3.5	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with	-	20.62		
3.5	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1)	-	20.62		
3.5	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with	-	20.62		
3.5	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.	-	20.62		
	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0	-	20.62		
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring	Sqm			
	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring	-	20.62		
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	Sqm			
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat	Sqm			
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing	Sqm			
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1	Sqm			
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing	Sqm			
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring	Sqm	36.95		
4.0	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)	Sqm	36.95		
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4.0 4.1	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete	Sqm	36.95		
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4.0 4.1	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete  Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	Sqm	36.95		
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4.0 4.1	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete  Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing	Sqm	36.95		
4.0 4.1	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement mortar 1:4 (1 cement to match the shade of the tiles including rubbing and polishing complete  Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1	Sqm	36.95		
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4.0 4.1	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete  Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement: 3 coarse sand)  Ceramic tile Flooring	Sqm	36.95		
4.0 4.1	parapet walls in cement mortar 1:6  Dado  Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness, size, shade and pattern as approved by Architect/Project Manager laid with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with matching shade of tile, cutting, curing etc. complete in all respects as per drawing.  Total of Subhead 3.0  Flooring  Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement mortar 1:4 (1 cement to match the shade of the tiles including rubbing and polishing complete  Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)	Sqm Sqm Sqm	36.95 6.84		





#### 6(e)

	The second secon		1	1	
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the				
	joints with white cement and pigment to match the shade of tile including cutting,				
	etc. complete in all respects	•	6.22		
4.5	Sand Filling	Cum	6.32		
	Supplying and filling in plinth with sand under floors including watering, ramming,				
	consolidating, and dressing complete.				
	Total of Subhead 4.0				
5.0	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing RCC Frame for door of size given below, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with				
-\	enamel paint of approved colour all complete.	Nee	2.00		
a)	900 x 2080mm	Nos.	3.00		
b)	750 x 2080mm	Nos.	2.00		
5.2	Wooden Frame for windows & ventilators				
	Providing and fixing Wooden Frame for windows & ventilators of size given below				
	using local wood, out of section 100x50mm, with double rebate and holdfasts,				
- \	finished with enamel paint of approved colour all complete.	N1	4.00		
a)	1200x1200mm	Nos.	4.00		
p)	600x1050mm	Nos.	3.00	1	
c)	600x460mm	Nos.	3.00		-
d)	1200x460mm	Nos.	2.00		
5.3	Door Shutters				
	Providing and fixing door shutter of sizes given below of any of following material as				
	per approval by project in charge/ architect. (Note: Hardware not included in the				
-,	item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle				
	board / M.S. jali as per requirement of panel including finishing with enamel paint of				
	approved colour all complete.				
ii)	Wooden panelled door shutter using local wood as per approval, including providing				
	& fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in				
:::\	panels including finishing with enamel paint of approved colour all complete.				
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).				
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202				
10)	(Part I) decorative type, core of block board construction with frame of 1st class hard				
	wood and well matched commercial 3 ply veneering with vertical grains or cross				
	bands and face veneers on both faces of shutters.				
v)	Bamboo door shutters				
a)	800 x 2030mm	Nos.	5.00		
b)	650 x 2030mm	Nos.	2.00		
5.4	Window Shutters for windows & ventilators	.,,,,,	2.00		
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size				
-7	using local wood as per approval, including providing & fixing 5mm thk. clear float				
	glass of approved make, finishing with enamel paint of approved colour all complete.				
	(Note: Hardware not included in the item, to be as per selection)				
a)	550x1100mm	Nos.	8.00		
b)	500x950mm	Nos.	3.00		
c)	500x360mm	Nos.	3.00	1	
d)	1100x360mm	Nos.	2.00		
ii)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size				
•	using local wood as per approval, including providing & fixing M.S. wire gauge of avg.				
	width of aperture 1.4mm with wire of dia 0.63mm , finishing with enamel paint of				
	approved colour all complete. (Note: Hardware not included in the item, to be as per				
	selection)				
iii)	Bamboo Window Shutters				
a)	550x1100mm	Nos.	8.00		
b)	500x950mm	Nos.	3.00		
c)	500x360mm	Nos.	3.00	1	
d)	1100x360mm	Nos.	2.00		
	1100x360mm  Total of Subhead 5.0	NOS.	2.00		





#### 6(e)

		-	10.16		
6.1	RCC Plank and Joist system	Sqm	42.16		
	Providing and Laying precast RCC planks and joists system for roof slab and beams as				
	per related training and including providing & laying necessary cast in situ RCC and				
	reinforcement as specified in structural drawings , centering & shuttering complete,				
	excluding the cost of reinforcement.	-	6.04		
6.2	Micro Concrete Tile Roofing	Sqm	6.84		
	Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and				
	fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks, joints				
	between ridge tiles on doubly pitched roofs sealed with rich cement sand mortar all				
	complete as per approval of project manager, including providing and fixing ridge				
	tiles, gutter, M.S. purlins, cleats/ flats/ angles, flashing and rafters as specified in structural drawings. Work to be complete in all respect including hoisting at all				
	heights, cutting, welding, smooth grinding of all welding joints, applying derusting				
	primer coat, three or more coats of synthetic enamel paint etc. on M.S. members.				
6.3	Ceiling plaster	Sqm	39.00		
0.5	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.	Jqiii	33.00		
6.4	Hot Bitumen layer	Sqm	56.79		
0.4	Providing layer of residual type petroleum bitumen of penetration 80/100 of	Sqiii	30.73		
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer at				
	60 cudm per 10sqm including cleaning the slab surface with brushes and finally with a				
	piece of cloth lightly soaked in kerosene oil complete.				
6.5	Mud phuska	Cum	9.88		
	Providing and laying 100mm thick (average) mud phuska of damped brick earth on		3.00		
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed with				
	bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow dung).				
6.6	Ceramic broken tiles	Sqm	49.38		
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps with				
	cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water proofing				
	compound laid over a bed of 20mm thk cement mortar 1:4 and finished neat				
	complete.				
6.7	Cement Gola	Rmt	49.38		
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone				
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement:				
	3 sand) as per standard design.				
	Total of Subhead 6.0				
7.0	Miscellaneous				
7.1	Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete				
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and	Nos	2.00		
	a coat of neat cement rounding the edges and making and finishing the outlet				
<u> </u>	complete.				
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to withstand				
	a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees,	Rmt	6.00		
	clamps, Y - Junction with cover (for collecting rainwater) including testing of joints				
7.2	etc. complete.	Com	0.42		
7.3	M.S. Grill Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed at	Sqm	9.43		
	150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to window,				
	complete including grinding, providing two coats of red oxide primer and three or				
	more coats of synthetic enamel paint of approved colour.				
7.4	Concrete jali	Sqm	1.70		
,. <del>.</del>	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with	34111	1.70		
	cement mortar 1:4.				
	Total of Subhead 7.0				
	Total of "A'				
			ı l		



S.No.	Description				Amount (Rs.)	
۹.0	Civil Works					
1.0	Foundation					
2.0	Super structure Super structure					
3.0	Wall finishes					
1.0	Flooring					
5.0	Door & Windows					
5.0	Roofing					
'.O	Miscellaneous					
3.0	Plumbing					
9.0	Electrical					
	Total (16 till 10 till					
Note:	Estimated Cost is the cost of complete cluster (16 units)		<u> </u>		<del></del>	
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further					
BOQ for Bands	Cluster unit LIG A Option 'A' for Plains Region, using Precast Planks - Joists & Filler sl	ab Roof ar	id masonry in	Fly ash br	icks with Red Brid	
.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)	
A.O	Civil Works	<b>†</b>	-,,			
.0	Foundation	†			1	
.1	Earth work in excavation	Cum			1	
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				1	
	width or 10 sgm on plan) after clearing of site from bushes vegetation etc.,					
	including dressing of sides and ramming of bottoms, surface preparation as per					
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated					
	soil and disposal of surplus excavated soil as directed, within a lead of 50m.					
.2	Anti-termite treatment	Sqm				
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti					
	termite treatment and creating a chemical barrier under and all-round the column					
	pits, plinth beams, junction of wall and floor, along the external perimeter of					
	building etc. complete					
	With chlorpyriphos/Landane E.C. 20% with 1% concentration					
L.3	Back filling of earth	Cum				
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of					
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each					
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.					
1.4	PCC in foundation					
	(Providing) & laying in position cement concrete of specified grade including					
	centring & shuttering complete - All work up to plinth level.					
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum				
o)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum				
L.5	R.C.C. up to plinth level	Cum				
	Providing & laying in position M-20 grade of reinforced cement concrete including					
	centering, shuttering complete but excluding cost of reinforcement - All work up to					
	plinth level.	14:				
L.6	Reinforcement up to plinth level	Kg				
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,					
	including straightening, cutting, bending, placing in position and binding all					
4.7	complete.	Cum	+		+	
L.7	Brick work in foundation  Brick work with FPS bricks of class designation 75 in foundation and plinth in	Cum	+		+	
	cement mortar 1:6 (1 cement: 6 coarse sand).					
	Total of Subhead 1.0	+			+	
2.0	Super structure	+	1		1	
u 1	Brick work in super structure	Cum	353.24		+	
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in	Culli	333.24		+	
	rat trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure					
	above plinth level including finishing in ruled pointing on the external side of wall.					
2	Brick work in Red Burnt Bricks	Cum	15.57		1	
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure	Cuiii	13.37		1	
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse					
		i	1	1	1	





	specified.			
2.3	Brick work in Parapet wall	Cum	39.22	
	Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in parapet wall in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)		00.12	
2.4	115mm thk brick wall	Sqm	228.06	
2.4	Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super	Sqiii	228.00	
	structure above plinth level in cement mortar 1:6, including providing & placing in			
	position 2 nos. 6mm dia. M.S. bars at every third course.			
2.5	Brick Jali	Sqm	4.02	
2.5	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation	ЭЧП	4.02	
2.6	75 in cement mortar 1:4	Cum		
2.6	R.C.C. in super structure  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	Cum		
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,			
	shuttering complete but excluding cost of reinforcement.			
2.7	Reinforcement in super structure	V~		
2.7	·	Kg		
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &			
	Loft slabs in super structure as specified, including straightening, cutting, bending,			
2.0	placing in position and binding all complete.			
2.8	Plain cement concrete  Providing and laving plain coment concrete of specified grade as had concrete	1		
	Providing and laying plain cement concrete of specified grade as bed concrete			
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.			
	screeding at roof to required slope and other locations as called for laid,			
2)	consolidated and cured etc. complete as per specification and drawing.  1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	57.66	
a)	Total of Subhead 2.0	Cum	37.00	
2.0				
3.0	Wall finishes		2564.04	
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2561.04	
3.2	Lime wash	Sqm	3321.04	
	Providing and applying three or more coats of white wash with lime on wall and			
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing			
	of indigo blue and DDL adhesive etc. complete.		22.00	
3.3	Stone Counters	Sqm	32.00	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm			
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
2.4	complete.	C	42.64	
3.4	Coping	Sqm	43.61	
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &			
	parapet walls in cement mortar 1:6		255.20	
3.5	Dado	Sqm	355.30	
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform			
	thickness, size, shade and pattern as approved by Architect/Project Manager laid			
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.	1	+	
4.0	Total of Subhead 3.0	1	+ +	
4.0	Flooring	C	627.00	
4.1	Terrazzo Tile Flooring	Sqm	637.00	
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of			
	size up to 12mm, Light shade using white cement, laid in floors, jointed with neat			
	cement slurry mixed with pigment to match the shade of the tiles including rubbing			
	and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4			
4.2	(1 cement :4 coarse sand)	Sam	66.06	
4.2	Terrazzo Tile Skirting  Providing and laving proceed tograpse tiles 22mm thick with graded marble chies of	Sqm	66.06	
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting &risers of steps,			
	jointed with neat cement slurry mixed with pigment to match the shade of the tiles			
	including rubbing and polishing complete with precast tiles on 12mm thick cement			
4.2	mortar 1:3 (1 cement : 3 coarse sand)	Cam	36.00	
4.3	Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width,	Sqm	36.00	
4.4	including cost of forming, nosing etc.	Corre	44.90	
4.4	Ceramic tile Flooring	Sqm	44.80	
	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	1		ļ
	make, shade and pattern as approved by Project in charge laid over 20/12 mm			





average thick bed of cement mortar 1/4 (2 cement : 4 carses saind), grouting the joints with white cement and pigment to match the shade of the including cutting, etc. complete in all respects  4.5 Sand Rilling  Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and desiring complete.  Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and desiring complete.  5.0 Deer Windows  Prowding and fising RCC Transe for door of size given below, out of section 100,60mm, with single or double relates a conjunct, with holdfosts, finished with enamel paint of approved colour all complete.  8.1 SOC 1285 mm Nos. 48.00  1.7 750,2085 mm Nos. 48.00  1.7 750,2085 mm Nos. 48.00  2.2 RC Frame for windows & ventilators of size given below, out of section 100,60mm, with single or double relates are conjunct, with holdfosts, finished with enamel paint of approved colour all complete.  8.1 1200,1200 mm Nos. 12,000  1.2 1200,1200 mm Nos. 12,000  1.2 1200,1200 mm Nos. 14,000  1.2 1200,1200 mm Nos. 14,					1	1
etc. complete in all respects  Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and freeing complete.  Total of Subhead 4.0  Total of Subhead 4.0  RCC Frame for door  Providing and filling in plinth my this sand under floors including watering, ramming, consolidating, and freeing RCC Frame for door of size given below, out of section 100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  Nos. 18.00  RCC Frame for windows 8 ventilators  Providing and filling in RCC Frame for door of size given below, out of section 100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  RCC Frame for windows 8 ventilators  Providing and filling RCC Frame for windows 8, ventilators of size given below, out of approved colour all complete.  RCC Frame for windows 8, ventilators of size given below, out of approved colour all complete.  RCC Frame for windows 8, ventilators of size given below, out of approved colour all complete.  RCC Frame for windows 8, ventilators of size given below, out of approved colour all complete.  RCC Frame for windows 8, ventilators of size given below on the colour size given size given below on the colour size given below on the colour size given size given size given size given below on the colour size given size gi		average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the				
Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete.  Total of Subhead 4.0		joints with white cement and pigment to match the shade of tile including cutting,				
Supplying and filting in plinth with sand under floors including watering, ramming, consolidating, and dressing complete.  5.0 Dor Windows  5.1 RCC Frame for door  Providing and fisting RCC Frame for door of size given below, out of section 100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of a pproved colour all complete.  8.1 900x2085 mm  8.2 00 Nos. 48.00  8.2 10 Nos. 48.00  8.2 200  RCC Frame for windows & ventilators  Providing and fisting RCC Frame for mindows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  8.1 1200x1200mm  8.2 00  8.2 00  8.3 2.00  8.0 1200x1200mm  8.0 1200x1200mm  8.0 1200x1200mm  8.0 1200x1200mm  8.0 1200x1200mm  8.0 1200x1200mm  8.0 1200x500mm  8.0 16.00  9.0 500x500mm  8.0 16.00  9.0 500x500mm  9.0 1200x500mm  9.0 1200x5		etc. complete in all respects				
Consolidating, and dressing complete.  Total of Subheed 4.0  Door Windows  1. RC Frame for door  Providing and String RCC Frame for door of size given below, out of section 100x50mm, with single of oduble rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  a) 900x2085 mm Nos. 48.00  750x2085 mm Nos. 32.00  Providing and String RCC Frame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  a) 1200x1200mm Nos. 48.00  b) 600x1050mm Nos. 48.00  c) 120x500mm Nos. 48.00  c) 20x500mm Nos. 48.00  d) 600x500mm Nos. 48.00  d) 600x500mm Nos. 48.00  f) 10x500mm Nos. 48.00  d) 600x500mm Nos. 60x500mm Nos. 60x500	4.5	Sand Filling	Cum	41.40		
Consolidating, and dressing complete.  Total of Subheed 4.0  Door Windows  1. RC Frame for door  Providing and String RCC Frame for door of size given below, out of section 100x50mm, with single of oduble rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  a) 900x2085 mm Nos. 48.00  750x2085 mm Nos. 32.00  Providing and String RCC Frame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  a) 1200x1200mm Nos. 48.00  b) 600x1050mm Nos. 48.00  c) 120x500mm Nos. 48.00  c) 20x500mm Nos. 48.00  d) 600x500mm Nos. 48.00  d) 600x500mm Nos. 48.00  f) 10x500mm Nos. 48.00  d) 600x500mm Nos. 60x500mm Nos. 60x500		Supplying and filling in plinth with sand under floors including watering, ramming.				
Total of Subhead 4.0						
5.0   Door Windows						
Providing and fixing RCC Frame for door of size given below, out of section 100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.   Nos.   48.00	5.0					
Providing and fixing RCC Frame for donor of size given below, out of section   1,00x50mm, with single of orduble rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.   Nos.   48,00   1,00x50mm, with double rebate and holdfasts, finished with enamel paint of section 10,0x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.   Nos.   32,00   1,00x50mm   Nos.   48,00   1,00x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.   Nos.   48,00   1,00x50mm   Nos.   48,00   1,00x50mm   Nos.   48,00   1,00x50mm   Nos.   48,00   1,00x50mm   Nos.   1,00x50mm						
100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  a) 900x2085 mm Nos. 48.00    75x2085 mm Nos. 32.00    8x CF Frame for windows & ventilators Nos. 32.00    Providing and fraing ECF frame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  8) 1200x1209mm Nos. 48.00    100x100x100mm Nos. 48.00    100x500mm Nos. 48.00	3.1			+		
al 900x2085 mm Nos. 48.00   b) 750x2085 mm Nos. 48.00   c) 750x2085 mm Nos. 32.00   c) 750x2085 mm Nos. 48.00   c) 750x2085 mm Nos. 48.00   c) 80x2035 mm Nos. 48.00   c) 120x200 mm Nos. 48.00   c) 120x200 mm Nos. 48.00   c) 120x500 mm Nos. 48.00   c) 120x500 mm Nos. 48.00   d) 60x500 mm Nos. 48.00   d) 60x500 mm Nos. 48.00   f) 60x500 mm Nos. 48.00   f) 750x500 mm Nos. 48.00   f) 80x500 mm Nos. 48.00   f) 90x500 mm Nos. 80.00   f) 90x500 mm Nos. 80						
300x2085 mm		- '				
Sp.	-1		Nee	40.00		
Providing and fixing ECF rame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.   Nos. 32.00				_		
Providing and fixing RC Frame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  a) 1200x1200mm Nos. 48.00 b) 600x1050mm Nos. 48.00 c) 1200x500mm Nos. 48.00 d) 600x500mm Nos. 48.00 b) 600x500mm Nos. 48.00 b) 600x500mm Nos. 48.00 c) 1200x500mm Nos. 48.00 b) 600x500mm Nos. 48.00 c) 1200x500mm Nos. 64.00 c) 1200x500mm Nos. 48.00 c)			NOS.	32.00		
of section 1.00x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  a) 1200x1200mm	5.2			_		
a) al 2004200mm   Nos.   32.00   b) 600x1050mm   Nos.   48.00   c) 1200x500mm   Nos.   15.00   d) 600x 500mm   Nos.   15.00   d) 600x 500mm   Nos.   48.00   Forwiding and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection) d) Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jail as per requirement of panel including finishing with enamel paint of approved colour all complete. d) Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jail as per requirement of panel including finishing with enamel paint of approved colour all complete. d) Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete. d) All manufacture of the providing and fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete. d) All manufacture of the providing and fixing as manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters conforming to IS: 2202 (Part) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply weneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  v) Bamboo door shutters a) 800x2035mm Nos. 80.00 b) 650x2035mm Nos. 80.00 b) 650x2035mm Nos. 80.00 c) 100x400mm Nos. 84.00 c) 1100x400mm Nos. 84.00 c) 1100x400mm Nos. 84.00 c) 1100x400mm Nos. 64.00 c) 1100x400mm Nos. 15.00 c) 1100x400mm Nos. 15.00 c) 1100x400mm Nos. 15.00 c) 1100x400mm Nos. 15.00 c) 1100x400mm Nos. 15.0						
1200x1200mm						
100x1050mm						
d) 600x 500mm	a)	1200x1200mm	Nos.	32.00		
d) 600x 500mm				_		
Door Shutters   Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection)	-	1200x500mm	Nos.	16.00		
Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection)  i) Wooden panelled door shutter using local wood as per approval, 12 mm thk. particle board / Not. 5, lail as per requirement of panel including finishing with enamel paint of approved colour all complete.  ii) Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall hitchicas 2 mm (20.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. Isl marked flush door shutters.  v) Bamboo door shutters  or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  so 800x2035mm Nos. 80.00  550x2035mm Nos. 33.00  550x2035mm Nos. 33.00  77.4 Window Shutters for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x100mm Nos. 48.00  c) 1100x400mm Nos. 48.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  iii) So0x950mm Nos. 48.00  500x950mm Nos. 48.00  1050x950mm Nos. 48.00  1050x950mm Nos. 48.00	d)	600x 500mm	Nos.	48.00		
as per approval by project in charge/ architect. (Note: Hardware not included in the litem, to be as per selection)  Wooden panelled door shutter using local wood as per approval, 12 mm thk. particle board / M.S. jail as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  Waoden panelled door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters).  Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  V) Bamboo door shutters  a) 800x2035mm Nos. 80.00  Soox 300x2035mm Nos. 80.00  Window Shutters for windows & ventilators  i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  By Soox 400mm Nos. 48.00  Di Soox 400mm Nos. 48.00  Ci 1100x400mm Nos. 48.00	5.3	Door Shutters				
the item, to be as per selection)  Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jall as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (t.0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  Providing and fixing 35mm thk. Isi marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  3 800x2035mm Nos. 80.00  550x2035mm Nos. 80.00  Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  3 550x100mm Nos. 64.00  Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  3 550x100mm Nos. 64.00  Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm wi		Providing and fixing door shutter of sizes given below of any of following material				
ii) Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jall as per requirement of panel including finishing with enamel paint of approved colour all complete.  iii) Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg, width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  iii) 24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per maunifacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x2035mm Nos. 80.00  5.4 Window Shutters for windows & ventilators  i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100mm Nos. 64.00  d) 500x 400mm Nos. 66.00  iii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  iii) Soox 950mm Nos. 64.00  500x 950mm Nos. 64.00  10 500x 950mm Nos. 64.00		as per approval by project in charge/ architect. (Note: Hardware not included in				
particle board / M.S. Jail as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply venereing with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  c) Window Shutters for windows & ventilators in Providing and fixing Wooden panelled shutter for windows & sventilators of given size using local wood as per approval, including providing & fixing Smm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100mm Nos. 48.00  c) 1100x400mm Nos. 48.00  d) 500x 400mm Nos. 64.00  iii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.5mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with		the item, to be as per selection)				
particle board / M.S. Jail as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply venereing with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  c) Window Shutters for windows & ventilators in Providing and fixing Wooden panelled shutter for windows & sventilators of given size using local wood as per approval, including providing & fixing Smm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100mm Nos. 48.00  c) 1100x400mm Nos. 48.00  d) 500x 400mm Nos. 64.00  iii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.5mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with	i)	Wooden panelled door shutter using local wood as per approval, 12 mm thk.				
Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.   Wooden on the part of approved colour all complete.   Wooden on the part of approved colour all complete.   Wooden on the part of approved part of approved part of approved part of approved policy and fixing 35mm this list in the part of approved part of a memory of the part of the pa						
providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.    24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).    Iv)		enamel paint of approved colour all complete.				
providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.    24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).    Iv)	ii)	Wooden panelled door shutter using local wood as per approval, including				
0.63mm in panels including finishing with enamel paint of approved colour all complete.   24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge, (For W.C. and bathroom door shutter).   2022 (Part) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.   80.00   1	•					
complete.    Complete   Complete		0.63mm in panels including finishing with enamel paint of approved colour all				
10   24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).    10   Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.    11   Providing and face veneers on both faces of shutters.						
hollow section of size 59x24 mm and wall thickness 2 mm (t 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  b) 650x2035mm Nos. 80.00  c) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x100mm Nos. 48.00  c) 1100x400mm Nos. 48.00  c) 1100x400mm Nos. 48.00  d) 500x 400mm Nos. 48.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of any. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x100mm Nos. 64.00  b) 50x950mm Nos. 64.00  c) 1100x400mm Nos. 64.00  d) 500x400mm Nos. 64.00  li 100x400mm Nos. 64.00	iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x2035mm Nos. 80.00  b) 650x2035mm Nos. 32.00  5.4 Window Shutters for windows & ventilators  i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100mm Nos. 48.00  c) 1100x400mm Nos. 16.00  d) 500x400mm Nos. 16.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x100mm Nos. 64.00  b) 500x950mm Nos. 48.00  c) 1100x400mm Nos. 64.00  d) 500x950mm Nos. 64.00  c) 1100x400mm Nos. 64.00  d) 500x950mm Nos. 64.00  d) 500x950mm Nos. 64.00  d) 500x950mm Nos. 64.00  d) 500x400mm Nos. 64.00	,					
Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x2035mm Nos. 80.00  b) 650x2035mm Nos. 32.00  5.4 Window Shutters for windows & ventilators  i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100mm Nos. 48.00  c) 1100x400mm Nos. 48.00  d) 500x 400mm Nos. 48.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x1100mm Nos. 64.00  b) 500x950mm Nos. 48.00  c) 1100x400mm Nos. 48.00  c) 1100x400mm Nos. 16.00  d) 500x 400mm Nos. 16.00		, ,				
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be as per selection)           iii)       Bamboo Window Shutter           a)       550x1100mm       Nos.       64.00          b)       500x950mm       Nos.       48.00          c)       1100x400mm       Nos.       16.00          d)       500x 400mm       Nos.       48.00						
iii)         Bamboo Window Shutter             a)         550x1100mm         Nos.         64.00           b)         500x950mm         Nos.         48.00           c)         1100x400mm         Nos.         16.00           d)         500x 400mm         Nos.         48.00						
a)       550x1100mm       Nos.       64.00         b)       500x950mm       Nos.       48.00         c)       1100x400mm       Nos.       16.00         d)       500x 400mm       Nos.       48.00	:::\			1		
b)       500x950mm       Nos.       48.00         c)       1100x400mm       Nos.       16.00         d)       500x 400mm       Nos.       48.00			NI.	64.60		
c)       1100x400mm       Nos.       16.00         d)       500x 400mm       Nos.       48.00				+		
d) 500x 400mm Nos. 48.00				_		
Total of Subhead 5.0	d)		Nos.	48.00		
		Total of Subhead 5.0				





6.0	Roofing			
6.1	Filler material for Filler slab	Sqm	848.00	
	Providing & laying as per instruction, stabilised mud blocks 50mm thk. during			
	casting of Filler slab.			
6.2	Ceiling plaster	Sqm	760.00	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in			
	ceiling.			
6.3	Sunken area filling	Cum	14.76	
	Providing and laying on sunken areas broken light weight concrete block bats of			
	approximately 600 kg. per cum density laid, consolidated, finished smooth,			
	including finished & grouting the top layer with water proof cement mortar with			
	CICO or equivalent brand.			
6.4	Hot Bitumen layer	Sqm	234.80	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.5	Mud phuska	Cum	44.20	
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).			
6.6	Ceramic broken tiles	Sqm	221.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
	neat complete.			
6.7	Cement Gola	Rmt	9.20	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 450x450 with average minimum thickness of 50mm cement	Nos	9.00	
	concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement			
	plaster 1:3 and a coat of neat cement rounding the edges and making and finishing			
	the outlet complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	117.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,			
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.			
	Total of Subhead 7.0			
	Total of "A'			



S.No.	Description				Amount (Rs.)
A.0	Civil Works				Tuniouni (noi)
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
5.0	Roofing				
7.0	Miscellaneous				
3.0	Plumbing				
9.0	Electrical				
	Total				
Note:	Estimated Cost is the cost of complete cluster (16 units)				<u> </u>
	2. Rain water disposal has been detailed only up to down take rain water pipe. Furthe	r disposal	of rain water	to be as pe	er site situation.
BOO for (	Cluster unit LIG A Option 'B' for Plains Region, using Precast Planks - Joists & Filler sla				
Bricks Ba			<b>,</b>	,	2.00.00
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
4.0	Civil Works				11111
L.O	Foundation				1
.1	Earth work in excavation	Cum	†		1
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				1
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,				
	including dressing of sides and ramming of bottoms, surface preparation as per				
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated				
	soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
l. <b>2</b>	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti	- 1			
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of				
	building etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of				
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each				
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
L.4	PCC in foundation				
	(Providing) & lying in position cement concrete of specified grade including centring				
	& shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
o)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
l.5	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
l.6	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
	including straightening, cutting, bending, placing in position and binding all				
	complete.	<u>L_</u>	<u>                                       </u>		<u> </u>
L. <b>7</b>	Brick work in foundation	Cum			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in				
	cement mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
.0	Super structure				
2.1	masonry work in super structure	Sqm	1292.00		
	220mm thk. masonry work using Stabilised, Hydraulically Compressed Earth Blocks	<u> </u>			
	in super structure above plinth level as per the guidelines of Hydra form				
	construction manual.				
2.2	115 thk. wall	Sqm	373.36		
	115mm thk. masonry work using Stabilised, Hydraulically Compressed Earth Blocks		2.2.00		1
	in super structure above plinth level as per the guidelines of Hydra form				
	construction manual.				





		1	1 1	
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure			
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse			
	sand) including finishing in ruled pointing on the external side of wall where ever			
	specified.			
2.4	Brick Jali	Sqm	6.88	
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation		1	
	75 in cement mortar 1:4			
2.5		C		
2.5	R.C.C. in super structure	Cum		
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel			
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,			
	shuttering complete but excluding cost of reinforcement.			
2.6	Reinforcement in super structure	Kg		
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &			
	Loft slabs in super structure as specified, including straightening, cutting, bending,			
	placing in position and binding all complete.			
2.7	Plain cement concrete			
	Providing and laying plain cement concrete of specified grade as bed concrete			
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.			
	screeding at roof to required slope and other locations as called for laid,			
	consolidated and cured etc. complete as per specification and drawing.			ļ
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	62.03	 
	Total of Subhead 2.0			
3.0	Wall finishes			
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2242.00	
3.2	Lime wash	Sqm	3067.00	
3.2	Providing and applying three or more coats of white wash with lime on wall and	Jyill	3007.00	
	9 11 7 9			
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing			
	of indigo blue and DDL adhesive etc. complete.			
3.3	Stone Counters	Sqm	50.40	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm			
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
	complete.			
3.4	Coping	Sqm	38.04	
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	Jqm	30.01	
2.5	parapet walls in cement mortar 1:6	6	205.00	
3.5	Dado	Sqm	286.80	
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform			
	thickness, size, shade and pattern as approved by Architect/Project Manager laid			
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.			
	Total of Subhead 3.0			
4.0	Flooring			
4.1	Terrazzo Tile Flooring	Sqm	799.52	
		24111	, 55.52	1
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of			
	size up to 12mm, Light shade using white cement, laid in floors, jointed with neat			
1	cement slurry mixed with pigment to match the shade of the tiles including rubbing			
	and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4			
	(1 cement :4 coarse sand)			
4.2	Terrazzo Tile Skirting	Sqm	84.62	 
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of			
	size up to 12mm, Light shade using white cement, in skirting &risers of steps,			
	jointed with neat cement slurry mixed with pigment to match the shade of the tiles			
	including rubbing and polishing complete with precast tiles on 12mm thick cement			
1	mortar 1:3 (1 cement : 3 coarse sand)			
4.3	Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width,	Sam	56.00	1
4.5		Sqm	30.00	
-	including cost of forming, nosing etc.	C	42.20	-
4.4	Ceramic tile Flooring	Sqm	43.20	
1	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm			
				1
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the			
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the			
4.5	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting,	Cum	26.94	





	consolidating and drossing complete	1		
	consolidating, and dressing complete.  Total of Subhead 4.0		+	
5.0	Door Windows			
5.1	RCC Frame for door			
5.1	Providing and fixing RCC Frame for door of size given below, out of section		+	
	100x50mm, with single or double rebate as required, with holdfasts, finished with			
	enamel paint of approved colour all complete.			
a)	900x2125 mm	Nos.	64.00	
b)	750x2125 mm	Nos.	32.00	
5.2	RCC Frame for windows & ventilators	11001	52.00	
J.2	Providing and fixing RCC Frame for windows & ventilators of size given below, out			
	of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.			
a)	1200x1200mm	Nos.	32.00	
b)	600x1050mm	Nos.	64.00	
c)	1200x345mm	Nos.	16.00	
d)	600x345mm	Nos.	70.00	
5.3	Door Shutters			
	Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection)			
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete.			
ii)	Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.			
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).			
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.			
v)	Bamboo door shutters			
a)	800x2075mm	Nos.	64.00	
b)	650x2075mm	Nos.	32.00	
5.4	Window Shutters for windows & ventilators			
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)			
a)	550x1100mm	Nos.	32.00	
b)	500x950mm	Nos.	64.00	
c)	1100x245mm	Nos.	16.00	
d)	500x245mm	Nos.	70.00	
ii)	Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)			
iii)	Bamboo Window Shutter			
a)	550x1100mm	Nos.	32.00	
b)	500x950mm	Nos.	64.00	
c)	1100x245mm	Nos.	16.00	
d)	500x245mm	Nos.	70.00	
	Total of Subhead 5.0			
6.0	Roofing			
6.1	RCC Plank and Joist system	Sqm	720.00	
	Providing and Laying precast RCC planks and joists system for roof slab and beams as per related training and including providing & laying necessary cast in situ RCC and reinforcement as specified in structural drawings, centering & shuttering			





# ANNEXURE-VIII(LIG A-CLUSTER UNIT OPTION-B)

	complete, excluding the cost of reinforcement.			
6.2	Filler material for Filler slab	Sqm	160.00	
0.2	Providing & laying as per instruction, stabilised mud blocks 50mm thk. during	Jqiii	100.00	
	casting of Filler slab.			
6.3	Ceiling plaster	Sqm	825.20	
0.3	Providing 10 mm thick cement plaster of mix 1:4 (1 cement : 4 coarse sand) in	Sqiii	823.20	
	ceiling.			
6.4	Sunken area filling	Cum	30.00	
•••	Providing and laying on sunken areas broken light weight concrete block bats of	-	30.00	
	approximately 600 kg. per cum density laid, consolidated, finished smooth,			
	including finished & grouting the top layer with water proof cement mortar with			
	CICO or equivalent brand.			
6.5	Hot Bitumen layer	Sqm	260.75	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.6	Mud phuska	Cum	49.00	
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 ( 1clay : 1 cow			
	dung).			
6.7	Ceramic broken tiles	Sqm	245.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mized with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
	neat complete.		<b>+</b>	
6.7	Cement Gola	Rmt	105.00	
	Providing Gola in cement concrete 1:2:4 (1 cement :2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement : 3 sand) as per standard design.  Total of Subhead 6.0			
7.0	Miscelleneous		+	
7.1	Making khurras 450x450 with average minimum thickness of 50mm cement	Nos	9.00	
7.1	concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement	INOS	9.00	
	plaster 1:3 and a coat of neat cement rounding the edges and making and finishing			
	the outlet complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	117.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,	1	117.00	
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.			
	Total of Subhead 7.0			
	Total of "A'		+	



S.No.	Description				Amount (Rs.)
A.0	Civil Works				
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
6.0	Roofing				
7.0	Miscellaneous Works				
8.0	Plumbing				
9.0	Electrical				
	Total				
Note:	1. Rain water disposal has been detailed only up to downtake rain water pipe. Furthe				
-	LIG'B' Individual unit Option 'A' for Plains Region, using Precast Ferro cement Channels	& Micro	Concrete Tiles	Roof and	Masonry work ir
	d Compressed Earth Bricks	ı	1	Т	1
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works	-	-		
1.0	Foundation		-		
1.1	Earth work in excavation	Cum			
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,				
	including dressing of sides and ramming of bottoms, surface preparation as per				
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated				
1.3	soil and disposal of surplus excavated soil as directed, within a lead of 50m.	C			
1.2	Anti-termite treatment  Supplying, diluting and injecting chemical emulsion for pre-constructional anti	Sqm			
	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	termite treatment and creating a chemical barrier under and all-round the column pits, plinth beams, junction of wall and floor, along the external perimeter of				
	building etc. complete				
	With chlorpyriphos /Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
1.5	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of	Cum			
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each				
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	D.P.C.	Sqm	10.23		
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1	- 4			
	cement :2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and				
	applying a coat of residual petroleum bitumen of penetration 80/100 of approved				
	quality.				
1.5	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including				
	centring & shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.6	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.				
1.7	Reinforcement up to plinth level	Kg			
_	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
	including straightening, cutting, bending, placing in position and binding.				
1.8	Brick work in foundation	Cum			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in				
	cement mortar 1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2.0	Super structure				
2.1	Masonry work in super structure	Sqm	92.95		
_	230mm thk. Brickwork using Stabilised, Hydraulically Compressed Earth Bricks				
	(230115x75mm) in rat trap bond in super structure above plinth level as per the				
	guidelines of Hydra form construction manual.	1	1	l	





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2.2	115 thk. wall	Sqm	6.45		
	115mm thk. Brick work using Stabilised, Hydraulically Compressed Earth Bricks in		01.5		
	super structure above plinth level, in cement mortar 1:6, including providing &				
	placing in position 2 nos. 6mm dia. M.S. bars at every third course, as per the				
	guidelines of Hydra form construction manual.				
2.3	Red Brick Bands	Cum	1.04		
	Brick work in FPS bricks of class designation 75 in super structure above plinth level				
	in desired pattern in cement mortar 1:4 (1 cement : 4 coarse sand) including				
	finishing in ruled pointing on the external side of wall where ever specified.				
2.4	Brick work in Parapet wall	Sqm	12.43		
	Brick work with Brickwork using Stabilised, Hydraulically Compressed Earth Bricks				
	(230x115x75mm) in parapet wall in English bond in cement mortar 1:6 (1 cement :				
	6 coarse sand)				
2.5	Red Brick Jali	Sqm	0.89		
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation				
2.6	75 in cement mortar 1:4  R.C.C. in super structure	Cum			
2.0	Providing & laying in position M-20 grade of reinforced cement concrete in lintel	Cum			
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,				
	shuttering complete but excluding cost of reinforcement.				
2.7	Reinforcement in super structure	Kg		1	
<del></del>	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &	۰۰۰	1	1	
	Loft slabs in super structure as specified, including straightening, cutting, bending,				
1	placing in position and binding all complete.			1	
2.8	Plain cement concrete				
	Providing and laying plain cement concrete of specified grade as bed concrete				
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.				
	screeding at roof to required slope and other locations as called for laid,				
	consolidated and cured etc. complete as per specification and drawing.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	4.10		
	Total of Subhead 2.0				
3.0	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	154.50		
3.2	Lime wash	Sqm	154.50		
	Providing and applying three or more coats of white wash with lime on wall and				
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing				
	of indigo blue and DDL adhesive etc. complete.			+	
3.3	Stone Counters	Sqm	2.00		
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm				
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing				
3.4	complete.	Cam	7.23		
3.4	Coping   Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	Sqm	7.25		+
	parapet walls in cement mortar 1:6				
3.5	Dado	Sqm	25.67	+	
5.5	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform	Jqm	23.07		
	thickness, size, shade and pattern as approved by Architect/Project Manager laid				
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1				
	cement: 3 fine sand) and grouting the joints with white cement and pigment with				
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.		<u> </u>	1	<u> </u>
	Total of Subhead 3.0				
4.0					
7.0	Flooring	<u> </u>			
4.1	Terrazzo Tile Flooring	Sqm	48.57		
	Terrazzo Tile Flooring Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	Sqm	48.57		
	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat	Sqm	48.57		
	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing	Sqm	48.57		
	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4	Sqm	48.57		
4.1	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)				
	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring	Sqm Sqm	9.30		
4.1	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of				
4.1	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand), jointed with neat cement slurry				
4.1	Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  Paving Tiles flooring  Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of				





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			1		
	size up to 12mm, Light shade using white cement, in skirting jointed with neat				
	cement slurry mixed with pigment to match the shade of the tiles including rubbing				
	and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1				
	cement : 3 coarse sand)				
4.4	Ceramic tile Flooring	Sqm	4.83		
	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	i i			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm				
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the				
	joints with white cement and pigment to match the shade of tile including cutting,				
	etc. complete in all respects				
4.5	Sand Filling	Cum	7.95		
4.5	Supplying and filling in plinth with sand under floors including watering, ramming,	Cum	7.55		
	consolidating, and dressing complete.				
	Total of Subhead 4.0			+ +	
5.0	Door Windows				
				1	
5.1	RCC Frame for door			1	
	Providing and fixing RCC Frame for door of size given below, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with				
	enamel paint of approved colour all complete.				
a)	900 x 2125mm	Nos.	4.00		
b)	750 x 2125mm	Nos.	2.00		
5.2	RCC Frame for windows & ventilators				
	Providing and fixing RCC Frame for windows & ventilators of size given below, out			1 7	
	of section 100x50mm, with double rebate and holdfasts, finished with enamel paint				
	of approved colour all complete.				
a)	1200x1200mm	Nos.	4.00		
b)	600x1050mm	Nos.	3.00		
c)	600x500mm	Nos.	3.00		
d)	1200x500mm	Nos.	2.00		
5.3	Door Shutters				
	Providing and fixing door shutter of sizes given below of any of following material			+ +	
	as per approval by project in charge/ architect. (Note: Hardware not included in				
	the item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk.				
'')	particle board / M.S. jali as per requirement of panel including finishing with				
	enamel paint of approved colour all complete.				
::\				+ +	
ii)	Wooden panelled door shutter using local wood as per approval, including				
	providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia				
••••	0.63mm in panels including finishing with enamel paint of approved colour.			<del>                                     </del>	
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt				
	edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).	ļ	1		
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS:				
	2202 (Part I) decorative type, core of block board construction with frame of 1st				
	class hard wood and well matched commercial 3 ply veneering with vertical grains				
	or cross bands and face veneers on both faces of shutters.				
v)	Bamboo door shutters				
a)	800 x 2075mm	Nos.	6.00		
b)	650 x 2075mm	Nos.	2.00		
5.4	Window Shutters for windows & ventilators				
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given				
	size using local wood as per approval, including providing & fixing 5mm thk. clear				
	float glass of approved make, finishing with enamel paint of approved colour all				
	complete. (Note: Hardware not included in the item, to be as per selection)				
a)	550x1100mm	Nos.	8.00		
b)	500x950mm	Nos.	3.00		
c)	500x400mm	Nos.	3.00	1	
d)	1100x400mm	Nos.	2.00		
ii)	Providing and fixing Wooden panelled shutter for windows & ventilators of given	1			
,	size using local wood as per approval, including providing & fixing M.S. wire gauge				
	of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel				
	paint of approved colour all complete. (Note: Hardware not included in the item, to				
	be as per selection)				
	שב עם אבו פבובנווטוון	1		ı J	





iii)	Bamboo Window Shutter			
a)	550x1100mm	Nos.	8.00	
b)	500x950mm	Nos.	3.00	
c)	500x400mm	Nos.	3.00	
d)	1100x400mm	Nos.	2.00	
u)	Total of Subhead 5.0	1403.	2.00	
6.0	Roofing			
6.1	Precast Ferro cement Channel system	Cam	64.00	
0.1	Providing and Laying precast Ferro cement Channels for roof as per related training	Sqm	04.00	
	and including providing & laying necessary cast in situ RCC and reinforcement as			
	specified in structural drawings, centering & shuttering complete, excluding the			
	cost of reinforcement.			
6.2	Concrete Filling in Channels valley	Cum	1.00	
0.2	Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement	Cuiii	1.00	
	Channels including centring & shuttering complete.			
6.3	Micro Concrete Tile Roofing	Sqm	9.30	
0.3	Providing prefabricated corrugated MCR tile roofing (pan or roman as approved)	Sqiii	9.50	
	and fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks,			
	joints between ridge tiles on doubly pitched roofs sealed with rich cement sand			
	mortar all complete as per approval of project manager, including providing and			
	fixing ridge tiles, gutter, M.S. purlins, cleats/ flats/ angles, flashing and rafters as			
	specified in structural drawings. Work to be complete in all respect including			
	hoisting at all heights, cutting, welding, smooth grinding of all welding joints,			
	applying derusting primer coat, three or more coats of synthetic enamel paint etc.			
	on M.S. members.			
6.4	Ceiling plaster	Sqm	Rate only	
0.4	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in	Jqiii	Nace only	
	ceiling.			
6.4	Hot Bitumen layer	Sqm	60.95	
0.4	Providing layer of residual type petroleum bitumen of penetration 80/100 of	Jqiii	00.55	
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.5	Mud phuska	Cum	11.20	
0.5	Providing and laying 100mm thick (average) mud phuska of damped brick earth on	Cum	11.20	
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).			
6.6	Ceramic broken tiles	Sqm	56.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
	neat complete.			
6.7	Cement Gola	Rmt	33.00	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete	Nos	2.00	
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3			
	and a coat of neat cement rounding the edges and making and finishing the outlet			
	complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	6.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,			
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.	<u></u>		 
7.3	M.S. Grill	Sqm	7.75	
	Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed			
	at 150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to			
	window, complete including grinding, providing two coats of red oxide primer and			
	three or more coats of synthetic enamel paint of approved colour.	<u></u>		
	Total of Subhead 7.0			
	Total of "A'			





S.No.	Description				Amount (Rs.)
A.0	Civil Works				
1.0	Foundation				
2.0	Super structure				
3.0	Wall finishes				
4.0	Flooring				
5.0	Door & Windows				
6.0	Roofing				
7.0	Miscellaneous Works				
8.0	Plumbing				
9.0	Electrical				
	Total				
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further				
-	LIG'B' Individual unit Option 'A' for Plains Region,using Precast Brick Arch Panels & Mi	cro Concr	ete Tiles Roof	and Maso	nry work in Solid
Concrete		1			1
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
4.0	Civil Works				
L.0	Foundation				
1.1	Earth work in excavation	Cum	1		1
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,				
	including dressing of sides and ramming of bottoms, surface preparation as per				
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated				
1.2	soil and disposal of surplus excavated soil as directed, within a lead of 50m.  Anti-termite treatment	C			
1.2		Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti				
	termite treatment and creating a chemical barrier under and all-round the column pits, plinth beams, junction of wall and floor, along the external perimeter of				
	building etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
1.3	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of	Cuiii			
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each				
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
1.4	D.P.C.	Sqm	9.15		
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1	54	3.13		
	cement :2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and				
	applying a coat of residual petroleum bitumen of penetration 80/100 of approved				
	quality.				
1.5	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including				
	centring & shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
1.6	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.	<u>L</u>	<u></u>		
1.7	Reinforcement up to plinth level	Kg			
·	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
	including straightening, cutting, bending, placing in position and binding all				
	complete.				
1.8	Solid Concrete Blocks Masonry work in foundation	Cum			
	Masonry work in Solid Concrete Blocks in foundation and plinth in cement mortar				
	1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2.0	Super structure				
2.1	Solid Concrete Blocks Masonry work in super structure	Nos.	2397.77		
	Masonry work in Precast Solid Concrete Blocks (300x200x150), with density not				
	less than 1800 kg/m3, minimum average compressive strength of 5 N/mm2, in				
	cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above plinth level				
	including finishing in ruled pointing on the external side of wall.	1			1





2.2	Hollow concrete Blocks Jali	Sqm	0.95	
	Masonry work in Precast Hollow Concrete Blocks with open cavity, Non-load	Jqiii	0.55	
	bearing units of density between 1000-1500 kg/m3, minimum average compressive			
	strength of 1.5 N/mm2. (150x200x150) in cement mortar 1:4 (1 cement: 4 coarse			
	sand) in parapet wall.			
2.3	Hollow concrete Blocks Masonry	Sqm	2.00	
	Masonry work in Precast Hollow Concrete Blocks (300x200x150), load bearing			
	units with density between 1000 – 1500 kg/m3, minimum average compressive			
	strength of 3 N/mm2, in cement mortar 1:4 (1 cement : 4 coarse sand) in parapet			
	wall.			
2.2	115 thk. wall	Sqm	8.93	
	Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super			
	structure above plinth level in cement mortar 1:6, including providing & placing in			
	position 2 nos. 6mm dia. M.S. bars at every third course.			
2.5	R.C.C. in super structure	Cum		
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel			
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,			
2.6	shuttering complete but excluding cost of reinforcement.	V~	-	
2.6	Reinforcement in super structure  Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &	Kg	+	
	Loft slabs in super structure as specified, including straightening, cutting, bending,			
	placing in position and binding all complete.			
2.7	Plain cement concrete			
	Providing and laying plain cement concrete of specified grade as bed concrete			
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.			
	screeding at roof to required slope and other locations as called for laid,			
	consolidated and cured etc. complete as per specification and drawing.			
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	4.77	
- /	Total of Subhead 2.0			
3.0	Wall finishes			
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	202.64	
3.2	Lime wash	Sqm	262.64	
	Providing and applying three or more coats of white wash with lime on wall and			
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing			
	of indigo blue and DDL adhesive etc. complete.			
3.3	Stone Counters	Sqm	5.30	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm			
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
	complete.			
3.4	Coping	Sqm	8.96	
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &			
	parapet walls in cement mortar 1:6			
3.5	Dado	Sqm	35.34	
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform			
	thickness, size, shade and pattern as approved by Architect/Project Manager laid			
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1 cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.			
	Total of Subhead 3.0			
4.0	Flooring			
4.1	Terrazzo Tile Flooring	Sqm	51.20	
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	54111	31.20	
	size up to 12mm, Light shade using white cement, laid in floors, jointed with neat			
	cement slurry mixed with pigment to match the shade of the tiles including rubbing			
	and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4			
	(1 cement :4 coarse sand)			
4.2	Paving Tiles flooring	Sqm	8.10	
	Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of			
	cement mortar 1:4 (1 cement :4 coarse sand), jointed with neat cement slurry			
	mixed with pigment to match the shade of the tiles including rubbing and polishing			
	complete			
4.3	Terrazzo Tile Skirting	Sqm	4.52	
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of			 
	size up to 12mm, Light shade using white cement, in skirting jointed with neat			
	cement slurry mixed with pigment to match the shade of the tiles including rubbing			





		1			1
	and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1				
	cement : 3 coarse sand)				
4.4	Ceramic tile Flooring	Sqm	8.80		
	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved				
	make, shade and pattern as approved by Project in charge laid over 20/12 mm				
	average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the				
	joints with white cement and pigment to match the shade of tile including cutting,				
	etc. complete in all respects		0.00		
4.5	Sand Filling	Cum	8.90		
	Supplying and filling in plinth with sand under floors including watering, ramming,				
	consolidating, and dressing complete.				
	Total of Subhead 4.0				
5.0	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing RCC Frame for door of size given below, out of section				
	100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.				
2)	900 x 2080mm	Nos.	4.00		
a)	750 x 2080mm		2.00		
b) <b>5.2</b>	RCC Frame for windows & ventilators	Nos.	2.00	1	
5.2	Providing and fixing RCC Frame for windows & ventilators of size given below, out			-	
	of section 100x50mm, with double rebate and holdfasts, finished with enamel paint				
	of approved colour all complete.				
a)	1200x1100mm	Nos.	4.00		
b)	600x950mm	Nos.	3.00	1	
c)	1200x475mm	Nos.	2.00		
d)	600x475mm	Nos.	2.00		
5.3	Door Shutters	1103.	2.00		
3.3	Providing and fixing door shutter of sizes given below of any of following material				
	as per approval by project in charge/ architect. (Note: Hardware not included in				
	the item, to be as per selection)				
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk.				
'	particle board / M.S. jali as per requirement of panel including finishing with				
	enamel paint of approved colour all complete.				
ii)	Wooden panelled door shutter using local wood as per approval, including				
	providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia				
	0.63mm in panels including finishing with enamel paint of approved colour all				
	complete.				
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC				
	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt				
	edging on both sides. Complete as per manufacturer's specification and direction of				
	Engineer-in-charge. (For W.C. and bathroom door shutter).				
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS:				
	2202 (Part I) decorative type, core of block board construction with frame of 1st				
	class hard wood and well matched commercial 3 ply veneering with vertical grains				
	or cross bands and face veneers on both faces of shutters.				
v)	Bamboo door shutters	L		-	
a)	800 x 2030mm	Nos.	6.00	1	
b)	650 x 2030mm	Nos.	2.00	1	
5.4	Window Shutters for windows & ventilators				
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given				
	size using local wood as per approval, including providing & fixing 5mm thk. clear				
	float glass of approved make, finishing with enamel paint of approved colour all				
- \	complete. (Note: Hardware not included in the item, to be as per selection)		0.00	-	
a)	550x1000mm	Nos.	8.00	-	
b)	500x850mm	Nos.	3.00	-	
c)	1100x375mm	Nos.	2.00		
d)	500x375mm	Nos.	2.00	-	
ii)	Providing and fixing Wooden panelled shutter for windows & ventilators of given				
	size using local wood as per approval, including providing & fixing M.S. wire gauge				
	of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to				
	be as per selection)				
iii)	Bamboo Window Shutter	1			
··· <i>)</i>	L parindo williaow shartei	l	1	1	l





- \	FF0 4000	T	0.00	
a)	550x1000mm	Nos.	8.00	
b)	500x850mm	Nos.	3.00	
c)	1100x375mm	Nos.	2.00	
d)	500x375mm	Nos.	2.00	
	Total of Subhead 5.0			
6.0	Roofing			
6.1	Precast Arch Panel system	Sqm	70.70	
	Providing and Laying precast Arch Panels & Precast RCC Beams for roof as per			
	related training and including providing & laying necessary cast in situ RCC and			
	reinforcement as specified in structural drawings , centering & shuttering complete,			
	excluding the cost of reinforcement.			
6.2	Micro Concrete Tile Roofing	Sqm	8.80	
	Providing prefabricated corrugated MCR tile roofing (pan or roman as approved)			
	and fixing the tiles to M.S. purlins with G.I wire with proper overlaps and interlocks,			
	joints between ridge tiles on doubly pitched roofs sealed with rich cement sand			
	mortar all complete as per approval of project manager, including providing and			
	fixing ridge tiles, gutter, M.S. purlins, cleats/ flats/ angles, flashing and rafters as			
	specified in structural drawings. Work to be complete in all respect including			
	hoisting at all heights, cutting, welding, smooth grinding of all welding joints,			
	applying derusting primer coat, three or more coats of synthetic enamel paint etc.			
	on M.S. members.			
6.3	Ceiling plaster	Sqm	60.00	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in			
	ceiling.			
6.4	Hot Bitumen layer	Sqm	69.66	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.5	Mud phuska	Cum	12.90	
	Providing and laying 100mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).			
6.6	Ceramic broken tiles	Sqm	64.50	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
	neat complete.			
6.7	Cement Gola	Rmt	34.40	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 1'-6"x1'-6" with average minimum thickness of 2" cement concrete	Nos	2.00	 
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3			
	and a coat of neat cement rounding the edges and making and finishing the outlet			
	complete.			 
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	6.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,			
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.			 
7.3	M.S. Grill	Sqm	6.88	
	Providing and fixing in position M.S. Grill made of 10x10mm m.s. square rods fixed			
	at 150mm avg. c/c in both directions & 25x3mm flat all around to fix the grill to			
	window, complete including grinding, providing two coats of red oxide primer and			
L	three or more coats of synthetic enamel paint of approved colour.		<u> </u>	 
7.4	Concrete jali	Sqm	0.54	
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with			
	cement mortar 1:4.		<u> </u>	
	Total of Subhead 7.0			
L				 
	Total of "A'			 





S.No.	Description				Amount (Rs.)
A.0	Civil Works				` '
.0	Foundation				
.0	Super structure				
3.0	Wall finishes				
1.0	Flooring				
5.0	Door & Windows				
5.0	Roofing				
7.0	Miscellaneous				
3.0	Plumbing				
9.0	Electrical				
	Total				
Note:	Estimated Cost is the cost of complete cluster (16 units)				
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further	er disposal	of rain water	to be as pe	r site situation.
30Q for	Cluster unit LIG B Option 'A' for Plains Region, using Filler slab Roof and Masonry in F	ly ash bric	ks in Rat trap	Bond with	<b>Red Bricks Band</b>
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works				
.0	Foundation				
l.1	Earth work in excavation	Cum			
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in				
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,				
	including dressing of sides and ramming of bottoms, surface preparation as per				
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated				
	soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
1.2	Anti-termite treatment	Sqm			
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti				
	termite treatment and creating a chemical barrier under and all-round the column				
	pits, plinth beams, junction of wall and floor, along the external perimeter of				
	building etc. complete				
	With chlorpyriphos/Landane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
	Filling available excavated earth (Excluding rock) in trenches, plinth, sides of				
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each				
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.				
L.4	PCC in foundation				
	(Providing) & laying in position cement concrete of specified grade including				
	centring & shuttering complete - All work up to plinth level.				
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum			
o)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum			
L.5	R.C.C. up to plinth level	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete including				
	centering, shuttering complete but excluding cost of reinforcement - All work up to				
	plinth level.	14.			
1.6	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,				
	including straightening, cutting, bending, placing in position and binding all				
1.7	complete.  Brick work in foundation	Cum			
1.7		Cuiii			
	Brick work with FPS bricks of class designation 75 in foundation and plinth in				
	cement mortar 1:6 (1 cement: 6 coarse sand).  Total of Subhead 1.0	+	1		1
2.0		+	1		1
u 1	Super structure Brick work in super structure	Cum	490 E0		1
1	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in	Cum	489.50		<del> </del>
	rat trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure				
	above plinth level including finishing in ruled pointing on the external side of wall.				
2.2	Brick work in Red Burnt Bricks	Cum	21.93		+
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure	Culli	41.33		1
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse				
	sand) including finishing in ruled pointing on the external side of wall where ever				
	specified.				
			•		10





Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in parapet wall in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)  2.4 115mm thk brick wall Sqm 92.45  Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, chajjas and counter & Loft slabs etc. in super structure including centering,	
2.4 115mm thk brick wall  Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
structure above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm dia. M.S. bars at every third course.  2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	1
position 2 nos. 6mm dia. M.S. bars at every third course.  2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
2.4 Brick Jali Sqm 10.92  Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
75 in cement mortar 1:4  2.5 R.C.C. in super structure Cum  Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
2.5 R.C.C. in super structure Cum Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
Providing & laying in position M-20 grade of reinforced cement concrete in lintel	
beams, chajjas and counter & Loft slabs etc. in super structure including centering,	
shuttering complete but excluding cost of reinforcement.	
2.6 Reinforcement in super structure Kg	
Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &	
Loft slabs in super structure as specified, including straightening, cutting, bending,	
placing in position and binding all complete.	
2.7 Plain cement concrete	
Providing and laying plain cement concrete of specified grade as bed concrete	
under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.	
screeding at roof to required slope and other locations as called for laid,	
consolidated and cured etc. complete as per specification and drawing.	
a) 1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum 43.50	
Total of Subhead 2.0	
3.0 Wall finishes	
3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 3110.79	
3.2 Lime wash Sqm 4238.79	
Providing and applying three or more coats of white wash with lime on wall and	
ceiling to give an even shade including preparation of surfaces, scaffolding, mixing	ļ
of indigo blue and DDL adhesive etc. complete.	
3.3 Stone Counters Sqm 43.20	
Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm	
thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing	
complete.	
3.4 Coping Sqm 88.08	
Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	
parapet walls in cement mortar 1:6	
3.5 Dado Sqm 444.53	
Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform	
thickness, size, shade and pattern as approved by Architect/Project Manager laid	
with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1	
1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
cement: 3 fine sand) and grouting the joints with white cement and pigment with	
matching shade of tile, cutting, curing etc. complete in all respects as per drawing.	
Total of Subhead 3.0	
1	
4.0 Flooring	
4.1 Terrazzo Tile Flooring Sqm 937.60	
4.1 Terrazzo Tile Flooring Sqm 937.60	
4.1 Terrazzo Tile Flooring Sqm 937.60 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	
4.1 Terrazzo Tile Flooring Sqm 937.60  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat	
4.1 Terrazzo Tile Flooring Sqm 937.60  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing	
4.1 Terrazzo Tile Flooring Sqm 937.60  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4	
4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)	
4.1 Terrazzo Tile Flooring Sqm 937.60  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting Sqm 76.78  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	
4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers	
4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles	
### 4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  ### Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement	
### 4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4  ### (1 cement :4 coarse sand)  ### 4.2 Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)	
### Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  #### Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)  ###################################	
### Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  ###################################	
4.1 Terrazzo Tile Flooring Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)  4.3 Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  4.4 Ceramic tile Flooring Sqm 84.80	
4.1 Terrazzo Tile Flooring Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)  4.3 Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  4.4 Ceramic tile Flooring Providing and laying ceramic glazed tile flooring of size 300x300mm of approved	
4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)  4.3 Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  4.4 Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm	
### Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  #### Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)  ###################################	
4.1 Terrazzo Tile Flooring  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, laid in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand)  4.2 Terrazzo Tile Skirting  Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in skirting & steps risers jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)  4.3 Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.  4.4 Ceramic tile Flooring  Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern as approved by Project in charge laid over 20/12 mm	





Suppring and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete.  Total of Subbeald 4.0  Door Windows  1.					1
Consolidating, and dressing complete.  Total of Subheed 4.0.  5.0 Door Windows  Providing and fishing RCC Frame for door of size given below, out of section 10.05.0mm, with single of coubler febate as required, with holdfasts, finished with enamel paint of approved colour all complete.  3. 900.2055mm Nos. 64.00  3. 900.2055mm Nos. 64.00  5. RC Frame for windows & ventilators  Providing and fishing RCC Frame for windows & ventilators of size given below, out of section 10.05.0mm, with single for single fishing with enamel paint of approved colour all complete.  3. 900.2055mm Nos. 64.00  4. 1200.2050mm Nos. 64.00  4. 1200.2050mm Nos. 72.00  4. 1200.2050mm Nos. 72.00  5. 3 Poor Shutters  1. 200.5050mm Nos. 72.00  5. 3 Poor Shutters  1. 200.5050mm Nos. 72.00  5. 3 Poor Shutters  1. 200.5050mm Nos. 72.00  5. 3 Poor Shutters  1. 3 Poor Shutters  1. 4 Poor Shutter of sizes given below of any of following material as per approval by project in charge/architect. (Note: Hardware not included in the ten, to be as per selection)  1. Wooden pamelled door shutter using local wood as per approval, 12mm this, particle board / M. S. jill as per requirement of panel including fishings with enamel paint of approved colour all complete.  10 Wooden pamelled door shutter using local wood as per approval, including providing & fising M.S. wire gauge of any, within 64 parture 1.4mm with vier of dia 0.53mm in panels including fishings with enamel paint of approved colour all complete.  10 Wooden pamelled door shutter using local wood as per approval, including providing & fising M.S. wire gauge of any, within 64 parture 1.4mm with vier of dia 0.53mm in panels including fishings with enamel paint of approved colour all complete.  10 Wooden pamelled door shutter using local wood as per approval, including providing & fising M.S. wire gauge of any, within 64 parture 1.4mm with vier of dia 0.53mm in panels including fishings with enamel paint of approved colour all complete.  10 Year of the parture of the parture 1.4mm with vier of dia 0.5	4.5	Sand Filling	Cum	8.40	
Total of Subhead 4.0					
Sol.   Boor Windows					
Providing and thinking RCC Frame for door of size given below, out of section 100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.   Nos. 64.00					
Providing and fixing RCC Frame for door of size given below, out of section 100x50mm, with single of oduble rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  9. 90x2085 mm Nos. 64.00  750x2085 mm Nos. 72.00  100x50m	5.0	Door Windows			
100x50mm, with single or double rebate as required, with holdfasts, finished with enamel paint of approved colour all complete.  1 900x2085mm	5.1	RCC Frame for door			
ename paint of approved colour all complete.   Nos. 64.00		Providing and fixing RCC Frame for door of size given below, out of section			
a) 900-2035mm Nos. 64.00   b) 75.02085mm Nos. 64.00   c) 75.02085mm Nos. 64.00   c) 75.02085mm Nos. 64.00   c) 80.02085mm Nos. 64.00   c) 80.02085mm Nos. 64.00   c) 80.02085mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete. a) 120.041200 mm Nos. 72.00   c) 60.0500 mm Nos. 72.00   d) 60.0500 mm Nos. 32.00   d) 60.0500 mm Nos. 72.00   e) 72.00   e) 80.0500 mm Nos. 80.00   e) 80.		100x50mm, with single or double rebate as required, with holdfasts, finished with			
250x2085 mm		enamel paint of approved colour all complete.			
Providing and fixing ECF rame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved coloural it complete.	a)	900x 2085mm	Nos.	64.00	
Providing and fixing RCC Frame for windows & ventilators of size given below, out of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.	b)	750x2085 mm	Nos.	64.00	
of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  a) 120x1200 mm	5.2	RCC Frame for windows & ventilators			
of section 100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete.  a) 120x1200 mm		Providing and fixing RCC Frame for windows & ventilators of size given below, out			
3		of section 100x50mm, with double rebate and holdfasts, finished with enamel paint			
b) 600x1050 mm Nos. 72.00   c1 200x500 mm Nos. 72.00   d1 600x500 mm Nos. 72.00   d2 600x500 mm Nos. 72.00   d3 600x500 mm Nos. 72.00   d6 600x500 mm Nos. 72.00   d6 600x500 mm Nos. 72.00   d7 600x50uters Nos. 72.00   d8 Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection)   d8 Vooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M. S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete.   d8 Vooden panelled door shutter using local wood as per approval, including providing & fixing MS. wire gauge of avg. width of apperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled shutters and wall thickness 2 mm (s 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge (For W. C. and bathroom door shutters).   d9 Vooding and fixing 35mm thk. ISI marked flush door shutters.   d1 Vooding and fixing 35mm thk. ISI marked flush door shutters.   d1 Vooding and fixing 40mm And the second shutter for windows 8 ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved comback, fixinshing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)   d1 V		of approved colour all complete.			
b) 600x1050 mm Nos. 72.00   c1 200x500 mm Nos. 72.00   d1 600x500 mm Nos. 72.00   d2 600x500 mm Nos. 72.00   d3 600x500 mm Nos. 72.00   d6 600x500 mm Nos. 72.00   d6 600x500 mm Nos. 72.00   d7 600x50uters Nos. 72.00   d8 Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection)   d8 Vooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M. S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete.   d8 Vooden panelled door shutter using local wood as per approval, including providing & fixing MS. wire gauge of avg. width of apperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled door shutter small paint of approved colour all completes.   d8 Vooden panelled shutters and wall thickness 2 mm (s 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge (For W. C. and bathroom door shutters).   d9 Vooding and fixing 35mm thk. ISI marked flush door shutters.   d1 Vooding and fixing 35mm thk. ISI marked flush door shutters.   d1 Vooding and fixing 40mm And the second shutter for windows 8 ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved comback, fixinshing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)   d1 V	a)	1200x1200 mm	Nos.	72.00	
C) 1200x500 mm   Nos.   32.00   C) 600x500 mm   Nos.   72.00   C) 72.00   C) 72.00   C) 800x500 mm   Nos.   72.00   C) 1100x400 mm   Nos.   7					
Gi)					
Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection)  Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S., jali as per requirement of panel including finishing with enamel paint of a providing R fixing M.S. wire gauge of any, with of a perture 1.4mm with wire of dia 0.53mm in panels including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing R fixing M.S. wire gauge of any, with of apperture 1.4mm with wire of dia 0.53mm in panels including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters)  Providing and fixing 35mm thk. Sit marked flush door shutters on forming to IS: 2202 (Part) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  y)  Bamboo door shutters  a)  800x 2035mm  Nos. 64.00  Sobx2035mm  Nos. 64.00  Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing sm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  By Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing m.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colo					
Providing and fixing door shutter of sizes given below of any of following material as per approval by project in charge/ architect. (Note: Hardware not included in the Item, to be as per selection)  Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jail as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled doors hutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  Windown providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  Windown providing & fixing 35mm thk. SI marked flush door shutters and ef styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inhubit edging on both sides. Complete as per manufacturer's specification and direction of fingineer-in-charge. (For W.C. and bathroom door shutter).  Providing and fixing 35mm thk. SI marked flush door shutters conforming to IS: 2202 (Part 1) decorative type, croe of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  Jamboo door shutters  Window Shutters for windows & ventilators  Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  Journal of providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm			1,03.	, 2.30	<del> </del>
the tem, to be as per selection)  Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jall as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire pauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  Wooden panelled PVC door shutters made of styles and rails of an uPVC hollow section of size 59:24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  Wy Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  Wy Bamboo door shutters  a) 800x 2035mm Nos. 64.00  500x2035mm Nos. 64.00  Foroviding and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing Smm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  By S00x2035mm Nos. 72.00  S00x400 mm Nos. 32.00  S00x400 mm Nos. 72.00  Total of Subhead 5.0  Total of Subhead 5.0  Total of Subhead 5.0  Figure and the subhead 5.0  Squall Elementerial for Filler slab	3.3			+	
the Item, to be as per selection)  Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board / M.S. jall as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  Who wooden panelled door shutter single with the part of approved colour all complete.  Who wooden panelled for shutter smade of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbulit edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 220 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  Bamboo door shutters  a) 800x 2035mm Nos. 64.00  Forwiding and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing Smm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be sepre selection)  a) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  jii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of approved colour all complete. (Note: Hardware not included in the item, to be sepre selection)  Bamboo Window Shutter  a) 550x100 mm Nos. 72.00  Jook400 mm Nos. 72.00  Jook400 mm Nos. 72.00  Total of Subhead 5.0  Total of Sub					
Wooden panelled door shutter using local wood as per approval, 12mm thk, particle board / M.S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete.					
particle board / M.S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of aw, width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  War muthick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. [For W.C. and bathroom door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035 mm Nos. 64.00  B50x2035 mm Nos. 64.00  Window Shutters for windows & ventilators  Nos. 64.00  Window Shutters for windows & ventilators  vi) Window Shutters for windows & ventilators of given size using local wood as per approval, including providing & fixing Smm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  Nos. 144.00  J50x400 mm  Nos. 72.00  J50x400 mm  Nos. 72.00  Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of awg, with to faperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  Wos. 72.00  J100x400 mm  Nos. 144.00  Nos. 72.00  J100x400 mm Nos. 72.00  J100x400 mm Nos. 72.00  J100x400 mm Nos. 72.00  J10x400 mm Nos. 7	i۱			+	
enamel paint of approved colour all complete.  Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (to 2,2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  v) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  550x 2035 mm Nos. 64.00  Froviding and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x100 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x100 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  Total of Subhead 5.0  for total of Subhead 5.0  filler material for Filler slab	')				
ii) Wooden panelled door shutter using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  iii) 24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  V) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  b) 650x2035mm Nos. 64.00  b) 650x2035mm  Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing Smm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the Item, to be as per selection)  a) 550x1100 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  b) 500x490 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  c) 1110x400 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  Filler material for Filler slab					
providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm in panels including finishing with enamel paint of approved colour all complete.  24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thi. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  b) 650x2035 mm Nos. 64.00  Forwiding and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thic. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  b) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  j) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  b) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  solve 300x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  Total of Subhead S.0  fill iller material for Filler slab	::\	· · · · · · · · · · · · · · · · · · ·		+	
0.63mm in panels including finishing with enamel paint of approved colour all complete.  iii) 24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  b) 650x2035mm Nos. 64.00  5.4 Window Shutters for windows & ventilators  i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100 mm Nos. 72.00  d) 500x950 mm Nos. 32.00  d) 500x400 mm Nos. 32.00  d) 500x400 mm Nos. 72.00  iii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  e) 1100x400 mm Nos. 72.00  f) 710x400 mm N	11)				
complete.    24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).   Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.   V)					
1811   24 mm thick factory made PVC door shutters made of styles and rails of an uPVC hollow section of size 59x24 mm and wall thickness 2 mm (£ 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).   19					
hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. Complete as per manufacturer's spedification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to 15: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  b) 650x2035 mm Nos. 64.00  Froviding and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5 mm thk. clear float glass of approved make, finishing with enamel pain to approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x100 mm Nos. 144.00  c) 1100x400 mm Nos. 72.00  c) 1100x400 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel pain of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x100 mm Nos. 72.00  c) 1100x400 mm Nos. 144.00  b) 500x950 mm Nos. 72.00  c) 1100x400 mm Nos. 144.00  b) 500x950 mm Nos. 72.00  c) 1100x400 mm Nos. 144.00  b) 500x950 mm Nos. 72.00  c) 1100x400 mm Nos. 144.00  b) 500x950 mm Nos. 72.00  c) 1100x400 mm Nos. 144.00  d) 500x400 mm Nos. 32.00  d) 500x400 mm Nos. 32.00  d) 500x400 mm Nos. 72.00  Filler material for Filler slab	:::\	·		+	
edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).  iv) Providing and fixing 35mm kh. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035mm Nos. 64.00  b) 650x2035mm Nos. 64.00  Fowlding and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x400 mm Nos. 72.00  b) 500x400 mm Nos. 72.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x100 mm Nos. 72.00  d) 500x400 mm Nos. 72.00  fotal of Subhead 5.0  e.0 Filler material for Filler slab	"")	· · · · · · · · · · · · · · · · · · ·			
Engineer-in-charge. (For W.C. and bathroom door shutter).   Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		<u> </u>			
Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.    V)					
2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters  a) 800x 2035mm	:\			+	
class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters a) 800x 2035mm Nos. 64.00 b) 650x2035 mm Nos. 64.00 class and face veneers on both faces of shutters.  Nos. 64.00 class and wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x100 mm Nos. 144.00 b) 500x400 mm Nos. 72.00 c) 1100x400 mm Nos. 72.00 d) 500x400 mm Nos. 72.00 d) 500x400 mm Nos. 72.00 ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of aye, width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter a) 550x1100 mm Nos. 144.00 b) 500x950 mm Nos. 72.00 c) 1100x400 mm	10)				
or cross bands and face veneers on both faces of shutters.  v) Bamboo door shutters a) 800x 2035mm b) 650x2035 mm Nos. 64.00 b) 650x2035 mm Nos. 64.00  5.4 Window Shutters for windows & ventilators i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100 mm Nos. 72.00 c) 1100x400 mm Nos. 72.00 d) 500x950 mm Nos. 72.00 ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of ays. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter a) 550x1100 mm Nos. 144.00 b) 500x950 mm Nos. 72.00 c) 1100x400 mm Nos. 72.00 d) 500x400 mm Nos. 72.00 f) 70x400 fm					
v)       Bamboo door shutters       Nos.       64.00         a)       800x 2035mm       Nos.       64.00         b)       650x2035 mm       Nos.       64.00         5.4       Window Shutters for windows & ventilators       64.00         i)       Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)       Nos.       144.00         a)       550x1100 mm       Nos.       72.00         b)       500x490 mm       Nos.       72.00         c)       1100x400 mm       Nos.       72.00         d)       500x400 mm       Nos.       72.00         ii)       Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of aye, width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)       Nos.       72.00         iii)       Bamboo Window Shutter       Nos.       144.00       144.00         a)       550x1100 mm       Nos.       72.00       144.00         b)       500x950 mm		. ,			
a) 800x 2035mm Nos. 64.00 b) 650x2035 mm Nos. 64.00 c) 650x2035 mm Nos. 64.00 c) Mos. 72.00 c) Mos. Mos. 72.00 c) Mos. Mos. Mos. Mos. Mos. Mos. Mos. Mos.					
b) 650x2035 mm			Noc	64.00	
S.4   Window Shutters for windows & ventilators   Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)   Nos.   144.00	•			+ +	
i) Providing and fixing Wooden panelled shutter for windows & ventilators of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100 mm Nos. 144.00 b) 500x950 mm Nos. 72.00 c) 1100x400 mm Nos. 32.00 d) 500x400 mm Nos. 72.00 ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection) iii) Bamboo Window Shutter a) 550x1100 mm Nos. 144.00 b) 500x950 mm Nos. 72.00 c) 1100x400 mm Nos. 32.00 d) 500x400 mm Nos. 72.00 Total of Subhead 5.0 Roofing 6.1 Filler material for Filler slab			NOS.	64.00	
size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100 mm  Nos. 144.00  b) 500x950 mm  Nos. 32.00  c) 1100x400 mm  Nos. 32.00  d) 500x400 mm  Nos. 72.00  Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x1100 mm  Nos. 144.00  b) 500x950 mm  Nos. 72.00  c) 1100x400 mm  Nos. 72.00  d) 500x400 mm  Nos. 72.00  Total of Subhead 5.0  Roofing  Filler material for Filler slab  Sqm 1244.00				+	
float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100 mm	1)				
complete. (Note: Hardware not included in the item, to be as per selection)  a) 550x1100 mm  Nos. 144.00  b) 500x950 mm  c) 1100x400 mm  Nos. 32.00  d) 500x400 mm  Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm , finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x1100 mm  Nos. 144.00  b) 500x950 mm  Nos. 72.00  c) 1100x400 mm  Nos. 32.00  d) 500x400 mm  Nos. 72.00  Total of Subhead 5.0  Roofing  Filler material for Filler slab					
a) 550x1100 mm Nos. 144.00   b) 500x950 mm Nos. 72.00   c) 1100x400 mm Nos. 32.00   d) 500x400 mm Nos. 72.00   ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm , finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)   iii) Bamboo Window Shutter   a) 550x1100 mm Nos. 144.00   b) 500x950 mm Nos. 72.00   c) 1100x400 mm Nos. 32.00   d) 500x400 mm Nos. 72.00   Total of Subhead 5.0   6.0 Roofing   6.1 Filler material for Filler slab					
b) 500x950 mm Nos. 72.00 c) 1100x400 mm Nos. 32.00 d) 500x400 mm Nos. 72.00 ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm , finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection) iii) Bamboo Window Shutter a) 550x1100 mm Nos. 144.00 b) 500x950 mm Nos. 72.00 c) 1100x400 mm Nos. 32.00 d) 500x400 mm Nos. 72.00 Total of Subhead 5.0 Filler material for Filler slab	-1		NI	111100	
c) 1100x400 mm Nos. 32.00 d) 500x400 mm Nos. 72.00 ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection) iii) Bamboo Window Shutter a) 550x1100 mm Nos. 144.00 b) 500x950 mm Nos. 72.00 c) 1100x400 mm Nos. 32.00 d) 500x400 mm Nos. 72.00 Total of Subhead 5.0 Roofing 6.0 Roofing Filler material for Filler slab					
d) 500x400 mm Nos. 72.00  ii) Providing and fixing Wooden panelled shutter for windows ventilators of given size using local wood as per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia 0.63mm, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x1100 mm Nos. 144.00  b) 500x950 mm Nos. 72.00  c) 1100x400 mm Nos. 32.00  d) 500x400 mm Nos. 72.00  Total of Subhead 5.0  6.0 Roofing  6.1 Filler material for Filler slab					
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of avg. width of aperture 1.4mm with wire of dia 0.63mm , finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)  iii) Bamboo Window Shutter  a) 550x1100 mm Nos. 144.00  b) 500x950 mm Nos. 72.00  c) 1100x400 mm Nos. 32.00  d) 500x400 mm Nos. 72.00  Total of Subhead 5.0  6.0 Roofing  6.1 Filler material for Filler slab	ii)				
paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection)       Image: Colour all complete. (Note: Hardware not included in the item, to be as per selection)       Image: Colour all complete. (Note: Hardware not included in the item, to be as per selection)       Image: Colour all complete. (Note: Hardware not included in the item, to be as per selection)       Image: Colour all colour all complete. (Note: Hardware not included in the item, to be as per selection)       Image: Colour all					
be as per selection)       Image: Control of Subhead 5.0       Image: Control of Subhead for Filler slab					
iii)       Bamboo Window Shutter  .					
a)       550x1100 mm       Nos.       144.00         b)       500x950 mm       Nos.       72.00         c)       1100x400 mm       Nos.       32.00         d)       500x400 mm       Nos.       72.00         Total of Subhead 5.0         6.0       Roofing       Nos.       1244.00         6.1       Filler material for Filler slab       Sqm       1244.00				1	
b)       500x950 mm       Nos.       72.00         c)       1100x400 mm       Nos.       32.00         d)       500x400 mm       Nos.       72.00         Total of Subhead 5.0         6.0       Roofing       Sqm       1244.00         6.1       Filler material for Filler slab       Sqm       1244.00				1	
c)       1100x400 mm       Nos.       32.00         d)       500x400 mm       Nos.       72.00         Total of Subhead 5.0       Company       Company         6.0       Roofing       Roofing         6.1       Filler material for Filler slab       Sqm       1244.00		550x1100 mm	Nos.		
d)       500x400 mm       Nos.       72.00         Total of Subhead 5.0       Company       Company         6.0       Roofing       Roofing         6.1       Filler material for Filler slab       Sqm       1244.00	b)	500x950 mm	Nos.		
Total of Subhead 5.0         Sqm         1244.00           6.0         Roofing         Roofing           6.1         Filler material for Filler slab         Sqm         1244.00	c)	1100x400 mm	Nos.	32.00	
6.0         Roofing         Sqm         1244.00           6.1         Filler material for Filler slab         Sqm         1244.00	d)	500x400 mm	Nos.	72.00	
6.1 Filler material for Filler slab Sqm 1244.00		Total of Subhead 5.0			
	6.0	Roofing			
	6.1	Filler material for Filler slab	Sqm	1244.00	
		Providing & laying as per instruction, stabilised mud blocks 50mm thk. during			





	casting of Filler slab.			
6.2	Ceiling plaster	Sqm	1128.00	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in			
	ceiling.			
6.3	Sunken area filling	Cum	20.88	
	Providing and laying on sunken areas broken light weight concrete block bats of			
	approximately 600 kg. per cum density laid, consolidated, finished smooth,			
	including finished & grouting the top layer with water proof cement mortar with			
	CICO or equivalent brand.			
6.4	Hot Bitumen layer	Sqm	348.25	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.5	Mud phuska	Cum	65.00	
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).			
6.6	Ceramic broken tiles	Sqm	325.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
	neat complete.			
6.7	Cement Gola	Rmt	15.50	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1			
	cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 450x450 with average minimum thickness of 50mm cement	Nos	14.00	
	concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement			
	plaster 1:3 and a coat of neat cement rounding the edges and making and finishing			
7.2	the outlet complete.	Dest	182.00	
1.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	182.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,			
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.			
	Total of Subhead 7.0	<del> </del>		
	Total of "A'	<del>                                     </del>		



S.No.	abilized Compressed Earth Bricks  Description							
A.0	Civil Works							
1.0	Foundation							
2.0	Super structure							
3.0	Wall finishes							
4.0	Flooring							
5.0	Door & Windows							
6.0	Roofing							
7.0	Miscellaneous							
8.0	Plumbing							
9.0	Electrical							
Note:	Total  1. Estimated Cost is the cost of complete cluster (16 units)							
Note.	Stimated Cost is the Cost of complete cluster (10 units)      Rain water disposal has been detailed only up to down take rain water pipe. Further	or disposal	of rain water	to he as n	or cito cituation			
BOO for	Cluster unit LIG B Option 'B' for Plains Region, using Precast Brick Arch Panels & Filler							
	I Compressed Earth Bricks	SIAD KOOI	anu iviasoniy	III Nat traj	b bolia with			
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)			
4.0	Civil Works	Oiiit	Quantity	nate	Amount (N3.)			
1.0	Foundation	1						
l.1	Earth work in excavation	Cum						
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in	1	1					
	width or 10 sqm on plan) after clearing of site from bushes vegetation etc.,							
	including dressing of sides and ramming of bottoms, surface preparation as per							
	specification to receive the PCC, lift up to 1.5m, including getting out the excavated							
	soil and disposal of surplus excavated soil as directed, within a lead of 50m.							
1.2	Anti-termite treatment	Sqm						
	Supplying, diluting and injecting chemical emulsion for pre-constructional anti							
	termite treatment and creating a chemical barrier under and all-round the column							
	pits, plinth beams, junction of wall and floor, along the external perimeter of							
	building etc. complete							
4.2	With chlorpyriphos/Landane E.C. 20% with 1% concentration	C:						
1.3	Back filling of earth  Filling available excavated earth (Excluding rock) in trenches, plinth, sides of	Cum						
	foundation etc. in layers not exceeding 20Cm. in depth, consolidating each							
	deposited layer by ramming and watering, lead up to 50m. and lift up to 1.5m.							
1.4	PCC in foundation							
	(Providing) & laying in position cement concrete of specified grade including							
	centring & shuttering complete - All work up to plinth level.							
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum						
b)	1:5:10 (1 cement :5 coarse sand : 10 graded stone aggregate 40mm nominal size)	Cum						
1.5	R.C.C. up to plinth level	Cum						
	Providing & laying in position M-20 grade of reinforced cement concrete including							
	centering, shuttering complete but excluding cost of reinforcement - All work up to							
	plinth level.	ļ						
1.6	Reinforcement up to plinth level	Kg						
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified,							
	including straightening, cutting, bending, placing in position and binding all							
	complete.	<u> </u>						
1.7	Brick work in foundation	Cum						
	Brick work with FPS bricks of class designation 75 in foundation and plinth in							
	cement mortar 1:6 (1 cement: 6 coarse sand).	1						
2.0	Total of Subhead 1.0 Super structure	1	1					
2.0 2.1	Brick work in super structure	Sam	1988.78					
<b></b>	230mm thk. Brick work in Stabilised, Hydraulically Compressed Earth Bricks in rat	Sqm	1300.70					
	trap bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above							
	plinth level including finishing in ruled pointing on the external side of wall.							
2.2	115 thk. wall Sqm 96.58							
	115 tilk. Wall  115mm thk. Brick work using Stabilised, Hydraulically Compressed Earth Bricks in	- 4	1 3.55					
	super structure above plinth level, in cement mortar 1:6, including providing &							
	placing in position 2 nos. 6mm dia. M.S. bars at every third course.							





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	Daid word in CDC beints of also designation 75 in matters haved in successful at the control of			1
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure			
	above plinth level in desired pattern in cement mortar 1:4 (1 cement : 4 coarse			
	sand) including finishing in ruled pointing on the external side of wall where ever			
	specified.		6.00	
2.4	Brick Jali	Sqm	6.80	
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation			
	75 in cement mortar 1:4			
2.5	R.C.C. in super structure	Cum		
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel			
	beams, chajjas and counter & Loft slabs etc. in super structure including centering,			
	shuttering complete but excluding cost of reinforcement.			
2.6	Reinforcement in super structure	Kg		
	Providing & fixing Reinforcement for R.C.C. work in lintel, chajjas and counter &			
	Loft slabs in super structure as specified, including straightening, cutting, bending,			
	placing in position and binding all complete.			
2.7	Plain cement concrete			
	Providing and laying plain cement concrete of specified grade as bed concrete			
	under floor, roof slab, plinth protection, cill, coping, shelves, kitchen platform etc.			
	screeding at roof to required slope and other locations as called for laid,			
	consolidated and cured etc. complete as per specification and drawing.			
2)	· · · ·	Cum	27.25	
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	21.23	
	Total of Subhead 2.0		1	
3.0	Wall finishes	1	1	
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2948.00	
3.2	Lime wash	Sqm	3968.00	
	Providing and applying three or more coats of white wash with lime on wall and			
	ceiling to give an even shade including preparation of surfaces, scaffolding, mixing			
	of indigo blue and DDL adhesive etc. complete.			
3.3	Stone Counters	Sqm	38.40	
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm	- 1		
	thk. Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing			
	complete.			
3.4	Coping	Sqm	60.34	
3.	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill &	JqIII	00.54	
2.5	parapet walls in cement mortar 1:6	C	520.20	
3.5	Dado	Sqm	538.30	
	Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform			
	thickness, size, shade and pattern as approved by Architect/Project Manager laid			
	with rich cement slurry over a bedding plaster of 12 mm thick cement mortar 1:3 (1			
	cement: 3 fine sand) and grouting the joints with white cement and pigment with			
	matching shade of tile, cutting, curing etc. complete in all respects as per drawing.			
	Total of Subhead 3.0			
4.0	Flooring			
4.1	Terrazzo Tile Flooring	Sqm	945.00	
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of			
	size up to 12mm, Light shade using white cement, laid in floors, jointed with neat			
	cement slurry mixed with pigment to match the shade of the tiles including rubbing			
	and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4			
	(1 cement :4 coarse sand)			
4.2	Terrazzo Tile Skirting	Sqm	107.42	
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of	<u> </u>		
	size up to 12mm, Light shade using white cement, in skirting &risers of steps,			
	jointed with neat cement slurry mixed with pigment to match the shade of the tiles			
	including rubbing and polishing complete with precast tiles on 12mm thick cement			
	mortar 1:3 (1 cement : 3 coarse sand)			
4.3	Extra for laying terrazzo flooring on staircase treads not exceeding 30 cm in width,	Sqm	49.60	
7.3	including cost of forming, nosing etc.	Jqiii	43.00	
A A		Com	114.00	
4.4	Ceramic tile Flooring	Sqm	114.08	
	Description and leading assessments the state flow day of the concept of the conc			1
	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting,			
	make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects			
4.5	make, shade and pattern as approved by Project in charge laid over 20/12 mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting,	Cum	48.18	





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	consolidating, and dressing complete.			
	Total of Subhead 4.0			
5.0	Door Windows			
5.1	RCC Frame for door			
	Providing and fixing RCC Frame for door of size given below, out of section			
	100x50mm, with single or double rebate as required, with holdfasts, finished with			
	enamel paint of approved colour all complete.			
a)	900x2125mm	Nos.	64.00	
b)	750x2125mm	Nos.	48.00	
5.2	RCC Frame for windows & ventilators			
	Providing and fixing RCC Frame for windows & ventilators of size given below, out			
	of section 100x50mm, with double rebate and holdfasts, finished with enamel paint			
	of approved colour all complete.			
a)	1200x1200	Nos.	48.00	
b)	600x1050	Nos.	48.00	
c)	1200x375	Nos.	32	
d)	600x375	Nos.	32	
5.3	Door Shutters			
	Providing and fixing door shutter of sizes given below of any of following material			
	as per approval by project in charge/ architect. (Note: Hardware not included in			
• • • • • • • • • • • • • • • • • • • •	the item, to be as per selection)			
i)	Wooden panelled door shutter using local wood as per approval, 12mm thk.			
	particle board panel including finishing with enamel paint of approved colour all			
ii)	complete.  Wooden panelled door shutter using local wood as per approval, including		+	
11)	providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm with wire of dia			
	0.63mm in panels including finishing with enamel paint of approved colour all			
	complete.			
iii)	24 mm thick factory made PVC door shutters made of styles and rails of an uPVC			
,	hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt			
	edging on both sides. Complete as per manufacturer's specification and direction of			
	Engineer-in-charge. (For W.C. and bathroom door shutter).			
iv)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS:			
,	2202 (Part I) decorative type, core of block board construction with frame of 1st			
	class hard wood and well matched commercial 3 ply veneering with vertical grains			
	or cross bands and face veneers on both faces of shutters.			
v)	Bamboo door shutters			
a)	800x2075mm	Nos.	80.00	
b)	650x2075mm	Nos.	64.00	
5.4	Window Shutters for windows & ventilators			
i)	Providing and fixing Wooden panelled shutter for windows & ventilators of given			
	size using local wood as per approval, including providing & fixing 5mm thk. clear			
	float glass of approved make, finishing with enamel paint of approved colour all			
	complete. (Note: Hardware not included in the item, to be as per selection)			
a)	550x1100	Nos.	96.00	
b)	500x950	Nos.	48.00	
c)	1100x275	Nos.	32	
d)	500x275	Nos.	32	
ii)	Providing and fixing Wooden panelled shutter for windows ventilators of given			
	size using local wood as per approval, including providing & fixing M.S. wire gauge			
	of avg. width of aperture 1.4mm with wire of dia 0.63mm , finishing with enamel			
	paint of approved colour all complete. (Note: Hardware not included in the item, to			
	be as per selection)			
iii)	Bamboo Window Shutter	N	06.00	
a)	550x1100	Nos.	96.00	
b)	500x950	Nos.	48.00	
c)	1100x275	Nos.	32	
d)	500x275	Nos.	32	
	Total of Subhead 5.0			
6.0	Roofing	C == · ·	740.00	
6.1	Precast Arch Panel system	Sqm	749.92	
	Providing and Laying precast Arch Panels & Precast RCC Beams for roof as per			
	related training and including providing & laying necessary cast in situ RCC and reinforcement as specified in structural drawings, centering & shuttering complete,			
	Treinforcement as specified in structural drawings, centering & shuttering complete,			





	excluding the cost of reinforcement.			
6.2	Filler material for Filler slab	Sqm	114.08	
	Providing & laying as per instruction, stabilised mud blocks 50mm thk. during			
	casting of Filler slab.			
6.3	Ceiling plaster	Sqm	1020.00	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in			
	ceiling.			
6.4	Sunken area filling	Cum	25.67	
	Providing and laying on sunken areas broken light weight concrete block bats of			
	approximately 600 kg. per cum density laid, consolidated, finished smooth,			
	including finished & grouting the top layer with water proof cement mortar with			
	CICO or equivalent brand.			
6.5	Hot Bitumen layer	Sqm	322.60	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of			
	approved quality at 17kg per 10sqm impregnated with a coat of coarse sand layer			
	at 60 cudm per 10sqm including cleaning the slab surface with brushes and finally			
	with a piece of cloth lightly soaked in kerosene oil complete.			
6.6	Mud phuska	Cum	61.40	
	Providing and laying 150mm thick (average) mud phuska of damped brick earth on			
	roof laid to slope consolidated and plastered with 25mm thk. mud mortar mixed			
	with bhusa at 35kg per cum of earth and gobri leaping with mix 1:1 (1clay: 1 cow			
	dung).	_		
6.7	Ceramic broken tiles	Sqm	307.00	
	Providing and laying broken ceramic glazed tiles on roof including filling the gaps			
	with cement mortar 1:4 (1cement: 4 coarse sand) mixed with 2% integral water			
	proofing compound laid over a bed of 20mm thk cement mortar 1:4 and finished			
6.7	neat complete.  Cement Gola	Dest	10.40	
6.7		Rmt	10.40	
	Providing Gola in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone			
	aggregate 10 mm nominal size) including finishing with cement mortar 1:3 (1 cement: 3 sand) as per standard design.			
	Total of Subhead 6.0			
7.0	Miscellaneous			
7.1	Making khurras 450x450 with average minimum thickness of 50mm cement	Nos	13.00	
,. <u>-</u>	concrete 1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement	1403	15.00	
	plaster 1:3 and a coat of neat cement rounding the edges and making and finishing			
	the outlet complete.			
7.2	Providing and fixing 110mm dia PVC rain water pipes of approved make to	Rmt	169.00	
	withstand a test pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow,	11111	203.00	
	tees, clamps, Y - Junction with cover (for collecting rainwater) including testing of			
	joints etc. complete.			
	Total of Subhead 7.0		1	
	Total of "A'			



#### Rate Analysis Chart for Plain Region **Individual Units** Carpet Area of **Total Cost** Cost/sqm Type Option each Unit **Construction Method Used** (in Rs.) (in Rs.) (in sqm.) Masonry: Combination of red bricks and fly Option-A 26 15,041.38 ash bricks 3,91,075.85 Flooring/Roofing: Ferro cement channel, MCR tiles **EWS** Masonry: Combination of fly ash bricks & Option-B 27 3,79,619.03 14,059.96 red bricks Flooring/Roofing: Pre-cast arch panel, MCR tiles Masonry: Combination of fly ash bricks & Option-A 32.8 14,491.29 red bricks 4,75,314.30 Flooring/Roofing: Filler slab roof LIG-A Masonry: Stabilised compressed earth Option-B 39 5,49,560.91 14,091.31 blocks Flooring/Roofing: Plank and joist & MCR tiles Masonry: Stabilised compressed earth blocks 10,750.90 Option-A 53.4 5,74,098.07 Flooring/Roofing: Pre-cast Ferro cement channels, MCR tiles LIG-B Masonry: solid concrete blocks Option-B 60 7,33,818.15 12,230.30 Flooring/Roofing: Brick arch panel, MCR tiles





#### Rate Analysis Chart for Plain Region

#### **Cluster Units**

Туре	Option	Carpet Area of each Unit (in sqm.)	Total Cost (in Rs.)	No. of Units in the cluster ( in no.s)	Cost/unit house (in Rs.)	Cost of each unit/sqm ( in Rs)	Construction Method Used			
EWS	Option-A	26	52,56,609.27	24	2,02,177.28	8,424.05	Masonry: Combination of fly ash bricks & red bricks Flooring/Roofing: Pre-cast Ferro cement channels			
	Option-B	27	49,87,825.45	24	1,84,734.28	7,697.26	Masonry: Combination of fly ash bricks & red bricks Flooring/Roofing: Pre-cast brick arch panel roof			
LIG-A	Option-A	36	66,03,099.41	16	1,83,419.43	11,463.71	Masonry: Fly ash bricks with red brick Flooring/Roofing: Plank & joist, filler slab			
	Option-B	39	71,45,125.06	16	1,83,208.33	11,450.52	Masonry: Stabilised hydra form blocks with red bricks band Flooring/Roofing: Plank and joists, filler slab			
LIG-B	Option-A	55.66	1,06,09,933.30	16	1,90,620.43	11,913.78	Masonry: Combination of fly ash bricks & red bricks Flooring/Roofing: Filler slab			
	Option-B	54	83,84,359.81	16	1,55,265.92	9,704.12	Masonry: Stabilized compressed earth blocks Flooring/Roofing: Brick arch panel & filler slab			





Affordable Housing- Individual dwelling units with a carpet area of not more than 60 sq. mt. either as a single unit or part of a building complex with multiple dwelling units.

**Affordable Housing Projects**- Housing projects where at least 60 per cent of the FAR/FSI is used for dwelling units of carpet area not more than 60 sq. mt. The project shall also reserve 15 per cent of the total FAR/FFSI or 35 per cent of the total number of dwelling units for EWS category.

**Built up Area**- It is the carpet area plus the thickness of outer walls and the balcony.

**Carpet Area**- The area enclosed within the walls, actual area to lay the carpet. This area does not include the thickness of the inner walls.

**Chajja/Sun-Shade-** A sloping or horizontal structural overhang, usually provided for protection from sun and rain or for considerations at lintel level.

**Damp-Proof Course-** A course consisting of some appropriate water proofing material provided to prevent penetration of dampness.

**EWS House-** A house or dwelling unit intended for Economically Weaker Sections with maximum built up area of 32 sq.mtr.

**EWS Plot-** A residential plot intended for Economically Weaker Sections having maximum plot area of 48 sq.mtr.

**Floor Area Ratio (FAR)** - The quotient obtained by dividing the total covered area on all floors with the area of the plot.

**Foundation-** That part of a structure, which is in direct contact with and meant for transmitting loads to the ground.

**LIG House-** A house or dwelling unit intended for low income groups with a built up area of maximum 48 sq.mtr.

**LIG Plot-** A residential plot intended for low income groups with a plot area of maximum 60 sq.mtr.

**Masonry-** An assemblage of masonry units properly bonded together with mortar.

**Plinth-** The portion of a structure between the surface of the surrounding ground and the surface floor, immediately above the ground.

**Sustainability-** It is defined as an ability or capacity of something to be maintained or to sustain itself. It's about taking what we need to live now, without jeopardising the potential for people in the future to meet their needs.

**Veranda-** A roofed platform along the outside of a house, level with the ground floor.

**Ventilation-** The supply of outside air into a building through window or other openings due to wind outside and convection effects arising from temperature, or vapour pressure differences (or both) between inside and outside of the building.









#### **About Development Alternatives:**

Ever since its inception in 1982, Development Alternatives (DA) has acted as a research and action organisation, designing and delivering eco-solutions for the poor and the marginalised.

With a deep understanding of the rural market and a strong presence in the Indian heartland, its existence has been a credible and visible one – nationally and internationally – in addressing poverty challenges in a climate-sensitive environment.

A pioneer in sustainable development and the first social enterprise in India, DA realised the necessity of establishing several associated organisations working toward distinct goals that converge on the unified ambition of regenerating the environment and creating large-scale sustainable livelihoods.

The DA Group envisions a world where every citizen can live in security, with a dignified job and an assured income. We believe that the key to achieving this is the creation of the means for sustainable livelihoods in large numbers - providing the rural poor with jobs and decent incomes, giving meaning and dignity to life, producing goods and services for local markets and preserving the environment.

#### About Building Material And Technology Promotion Council (BMTPC):

In order to bridge the gap between research and development and large scale application of new building material technologies, the erstwhile Ministry of Urban Development, Government of India, had established the BUILDING MATERIALS AND TECHNOLOGY PROMOTION COUNCIL in July 1990.

The Council strives to package proven innovative technologies for the benefit of entrepreneurs interested in setting up manufacturing units in tiny, small, medium and large scale sectors.

There has been a demand for setting up such an apex institution in order to provide an interdisciplinary platform to various agencies under Central and State Governments and the private sector for scaling up proven technologies to enhance their wide-spread use and for assisting commercial production as well as systematic dissemination of appropriate technology for the benefit of the construction of appropriate technology for the benefit of the construction agencies and different sections of the population.

The Council is structured to undertake the task of the extension and application of technologies and materials developed by research institutions on the ground with the backing of financial institutions and enabling regulatory environment.

For further information, please contact

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