DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING







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DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING

(COASTAL REGION)

COMPOSED BY



IN CO-OPERATION WITH



Over the past half century, a rural-to-urban population shift has been underway 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 coastal India. 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.





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Introduction

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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 2011¹. 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 cities². 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 nonserviceable katcha houses, while over half a million households are in homeless condition³.

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 Shortage⁴.

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 shortage⁵. 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 country⁶.

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 to 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



¹2011, Census of India, http://censusindia.gov.in/2011-provresults/indiaatglance.html

² October 2011, Urban Infrastructure in India, Federation of Indian Chambers of Commerce and Industry, FICCI

³ September 2012, Report of the Technical Urban Group (TG-12) on Urban Housing Shortage 2012-17, Ministry of Housing and Urban Poverty Alleviation

⁴ 2012, Report on urban housing shortage, Ministry of Housing and Urban Poverty Alleviation, Government of India.

⁵ 2012, Report on Bridging the Urban Housing Shortage in India, KPMG International ⁶ Ibid [3]

INTRODUCTION

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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)⁷. 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 building⁸.

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 of 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 category⁹. The Scheme aims at partnership between various agencies/ 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 areas¹⁰. It ranked first in the country in the implementation of housing for the



⁷ Accessed on 30th June 2014 National Building Organisation http://nbo.nic.in/Webforms/aboutus.html

⁸ 2013, Report on Trend and Progress of Housing in India, National Housing Bank.

⁹ Accessed on 30th June 2014 National Building Organisation http://nbo.nic.in/Webforms/aboutus.html ¹⁰Ibid [9]

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 Sections¹¹. 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 Corporation, General Insurance Corporation and Commercial Banks.

NOTES

1

¹¹Accessed on 30th June 2014 National Building Organisation http://nbo.nic.in/Webforms/aboutus.html

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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 nationally¹². 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 use¹³. 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, subsidence, coastal erosion, drainage systems has reflected to the requirement of new building techniques and materials to withstand adverse weather 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.

 J Parikh, April 2009, CO2 emissions structure of Indian economy
 July 2010, Report on Affordable Housing in the Context of Sustainable Habitat, Research done by Development Alternatives 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 construction¹⁴.

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 both 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





¹⁴ Ibid [13]

CONTEXT

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

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Indian Coastal Region

India has a long coastline of 7500 km, and faces maximum threats from tropical cyclones and associated storm surges during the North East monsoon (October–December)¹⁵.

Coastal zones are exposed to various natural forces including cyclones and tsunamis, which constantly affect shorelines. beaches and headlands, causing storm surges, erosion/accretion, landslides, and coastal flooding.

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 communities¹⁶. 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.

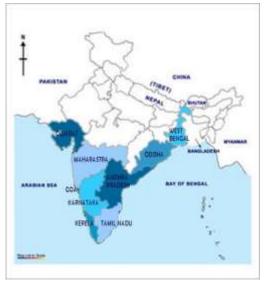


Figure 1 COASTAL STATES OF INDIA

¹⁵January 12th, 2011, Coastal plains of India: An Amazing Geologic Feature, Maps of India Blog Below are some examples of disaster that affected in the coastal region-

1. October 2013, Cyclone Phailin¹⁷

Over 200,000 hectares of agricultural land and 200,000 houses have been destroyed, as per the state government. Power transmission was also crippled in the district as 40 transmission towers were eradicated by the cyclone's fury. Balasore and Mayurbhanj districts were severely affected by heavy floods, and rescue operations are going on. In Balasore alone, 300,000 people are stuck because of the flooding.

In Andhra Pradesh the damage was less, but still considerable. Coconut plantations across 3,200 hectares in the Srikakulum district have been damaged and power supply affected. However, power supply is being restored shortly and roads have been cleared for transportation.



Figure 2: 2013 CYCLONE PHAILIN

2. 1999 Super Cyclone¹⁸

On October 29, 1999, a very high intensity cyclone with a wind speed of 300 mph struck the state of Odisha, taking more than 10,000 lives and causing property damages worth US \$ 1.35 billion. About



⁵ 2007, Asian Disaster Preparedness Centre (APDC)

¹⁷ October 15, 2013, **Eric Leister**, Tropical Cyclone Phailin: Hundreds of Thousands Spared

¹⁸ October 12, 2013, Revisiting the super cyclone that hit Odisha in 1999, Hindustan Times, <u>http://www.hindustantimes.com/india-news/revisiting-the-super-cyclone-that-hit-odisha-in-1999/article1-1134192.aspx</u>

SCOPE

3

16, 50,086 houses damaged, 23,129 houses washed away, 7, 46,337 houses fully destroyed and 8, 80,620 houses partially damaged. Almost 14901 primary school, 3425 high school buildings and 66 colleges were damaged. 12000 km roads, 1447 bridges were damaged. Electricity supply to most villages was disrupted.



Figure 3: 1999 SUPER CYCLONE

2. 2010 Cyclone Laila¹⁹

Severe cyclonic storm Laila was the first cyclonic storm to affect southeast India since the 1990 Andhra Pradesh cyclone. Laila developed on May 17, 2010 in the Bay of Bengal and made a landfall in Andhra Pradesh on the 20th of May. Cyclone Laila caused major flooding and damage along its path. Ongole in Andhra Pradesh recorded heavy rainfall of about 460 mm in just two days. Another town Addanki received the highest rainfall of 522 mm, followed by Maddipadu with 510 mm and Kothapatnam 258 mm in just 24 hours. As electricity lines and transformers were damaged in the cyclonic storm, hundreds of villages were plunged into darkness besides 11 towns. In addition to the deaths, thousands have been evacuated from their homes and dozens of area fishermen are still reported missing. The state government faced a loss of over Rs 500 crore due to Cyclone Laila.



Figure 4: 2010 CYCLONE LAILA

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
 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.





¹⁹ May 20, 2010, Cyclone 'Laila' slams into Andhra Pradesh; seven dead, The Hindu, <u>http://www.thehindu.com/news/national/cyclone-</u> laila-slams-into-andhra-pradesh-seven-dead/article434030.ece

Strategic Approach

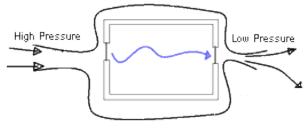
Design Considerations at Planning Stage

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 and humid, 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.

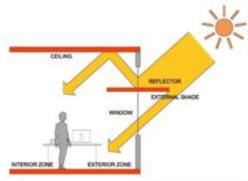


Cross Ventilation

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. 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.





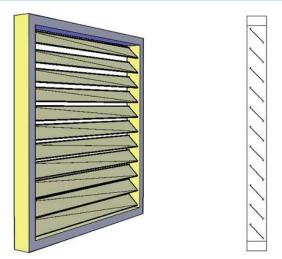


Figure 7: VENTILATION WITH LOUVERS

2. Safety Measures for Cyclone 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

bm pc

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.

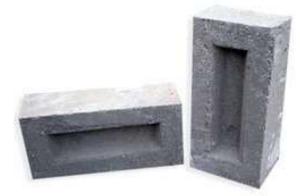


Figure 9: FAL G BRICKS

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



STRATEGIC APPROACH

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.

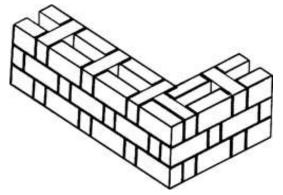


Figure 11: RAT- TRAP MASONRY BOND

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





STRATEGIC APPROACH

overnight, de-moulded within the next few days, cured and finally installed and joined at the required site.

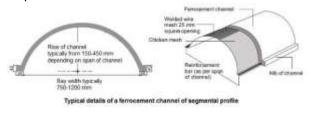


Figure 13: FERRO CEMENT ROOFING CHANNEL

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.



Figure 14: FILLER SLAB

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.

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 x 1.5m and the joists can be 0.15m x 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 roof¹. 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 efficiencies².



Figure 15: PRE-CAST RCC PLANK AND JOIST

11



v) Pre- cast arch panel system

The composite beam and panel roof is one such technique where beams and panels are prefabricated 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.

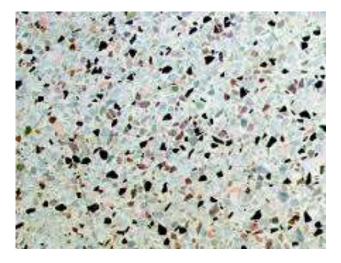


Figure 17: TERRAZZO FLOORING

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

Development Alternatives 5

Economically Weaker Section (EWS):

The carpet area of a dwelling unit-

21-27 sqm

Floor Area Ratio- 1.75





DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coastal Region)

5(a) 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 26.7 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 permanent ventilation through the pre-fabricated louvers. The layout allows easily adaptable internal arrangements.

The roofing system over the kitchen and the washroom unit is designed with Ferro cement channels and for the rest part of the building the roofing is done with Micro Concrete Tiles (MCR). 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. The columns too are designed with fly ash bricks.

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.





5(a) EWS INDIVIDUAL UNIT OPTION-A

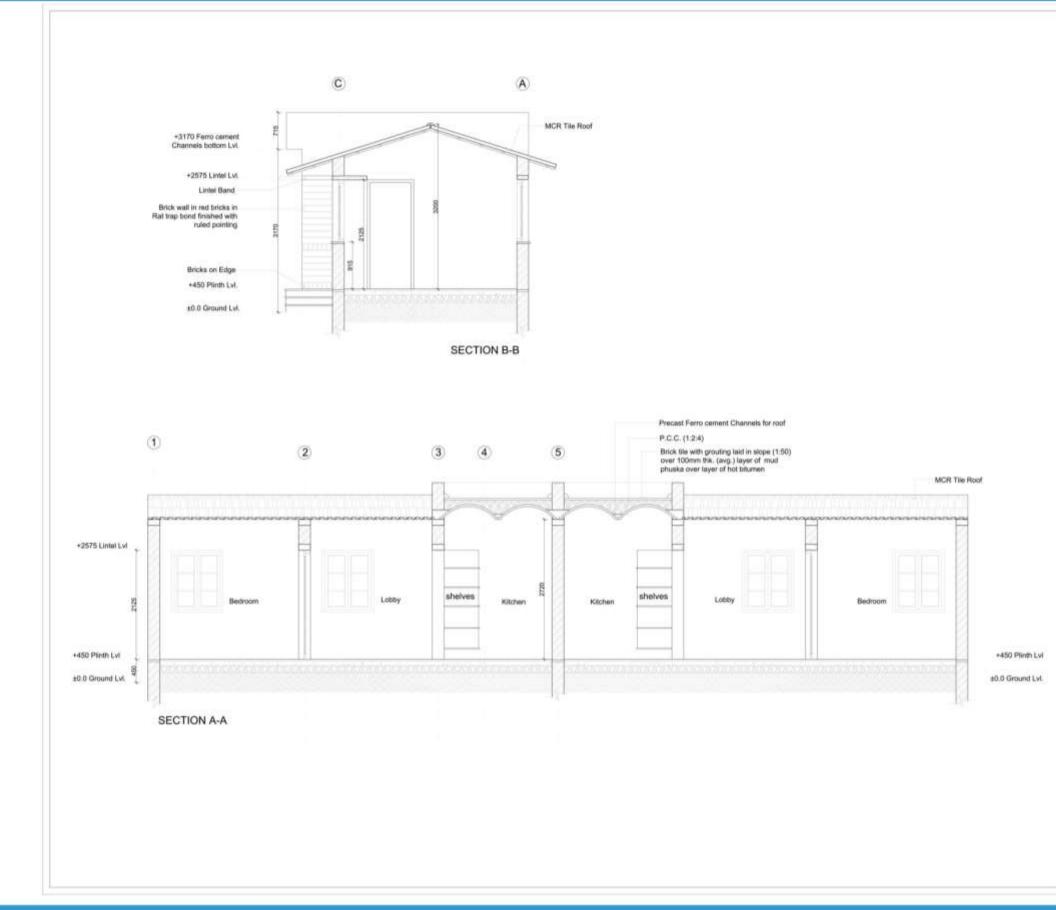




DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coastal Region)

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5(a) EWS INDIVIDUAL UNIT OPTION-A







5(a) EWS INDIVIDUAL UNIT OPTION -A



Figure 21: VIEW OF EWS INDIVIDUAL UNIT OPTION-A



Figure 22: STREET VIEW OF EWS 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 1 BHK typology with carpet area of 25.18 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 whole unit is provided with pre-fabricated louvers for permanent ventilation. The layout allows easily adaptable internal arrangements.

The brick masonry work for the super structure is done with laterite stone blocks in rat- trap bond. Roofing system is composed of filler slab technique which decreases the overall load on the foundation. Bamboo fins are provided at the top in the veranda area to control the daylight.

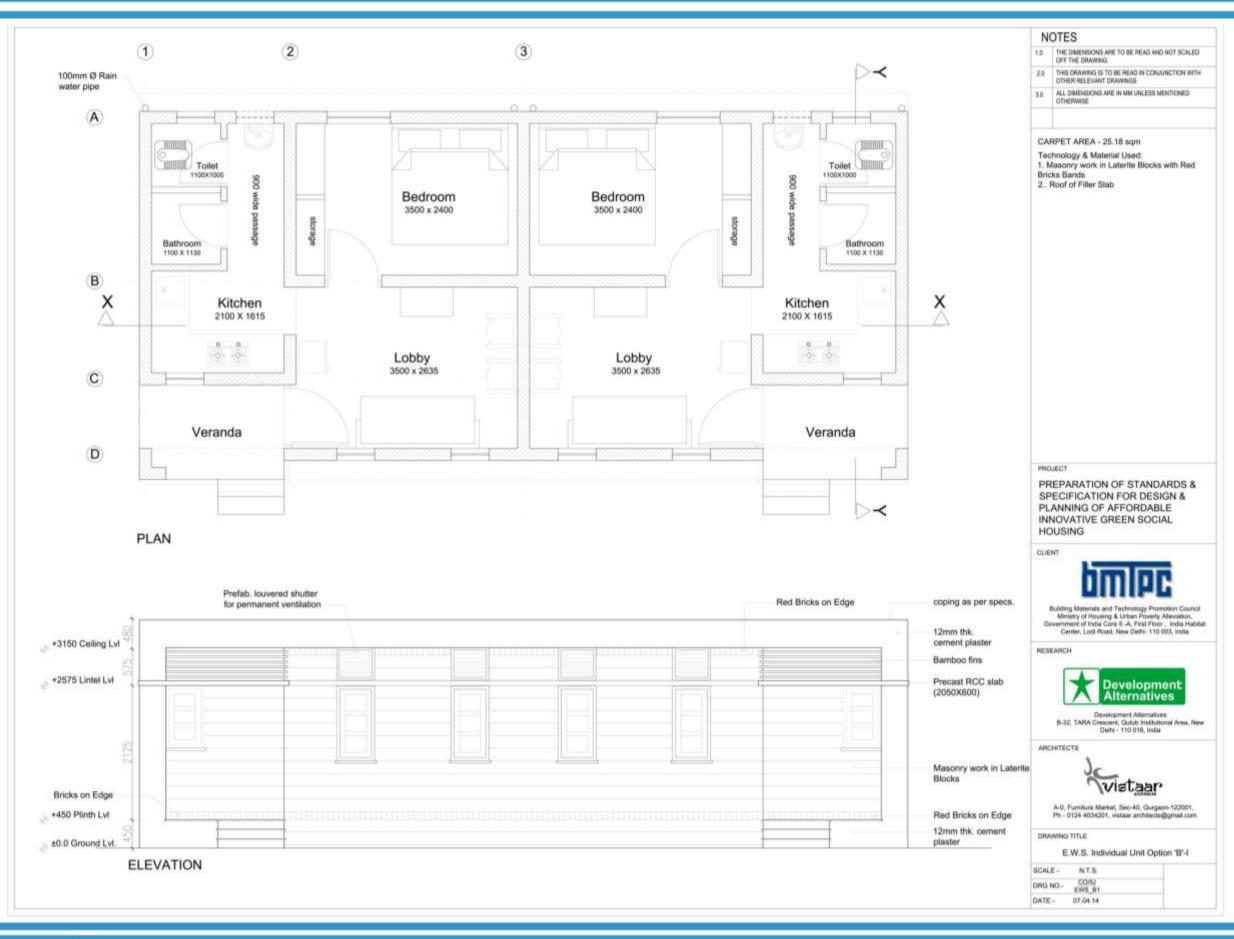
For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

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





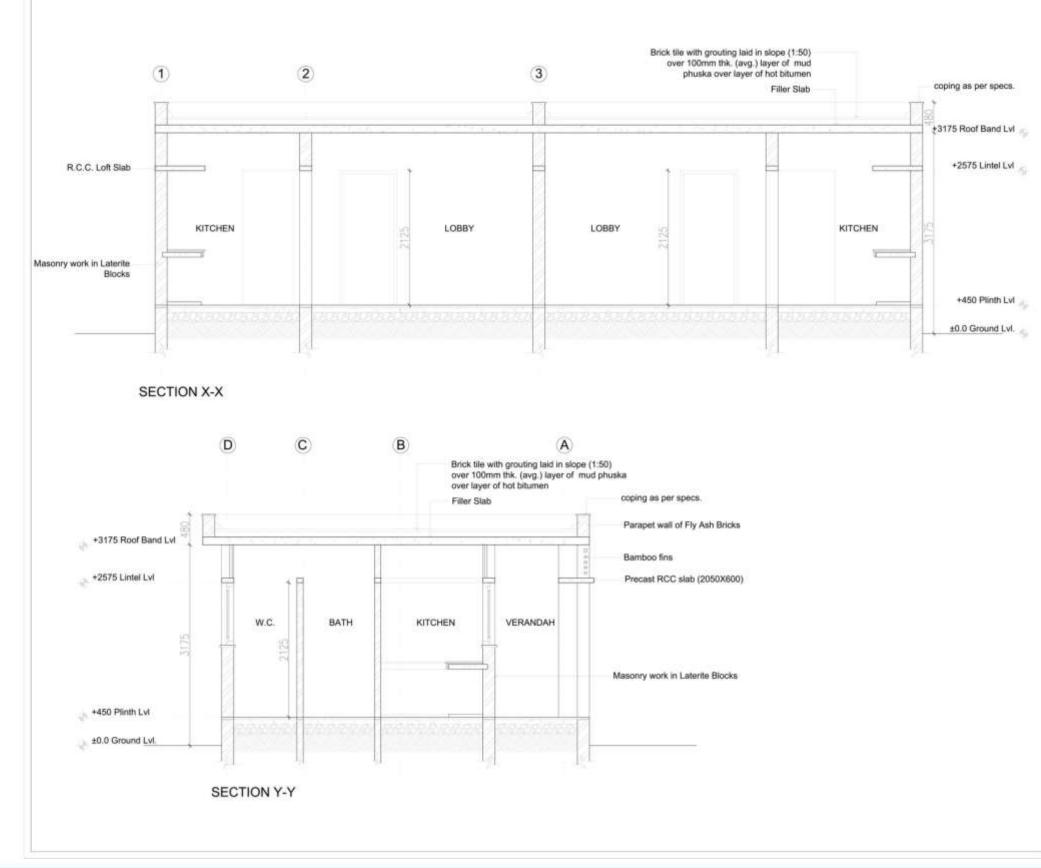
5(b) EWS INDIVIDUAL UNIT OPTION-B





DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coostal Region)

5(b) EWS INDIVIDUAL UNIT OPTION-B





DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coostal Region)



5(b) EWS INDIVIDUAL UNIT OPTION-B



Figure 23: VIEW OF EWS INDIVIDUAL UNIT OPTION-B



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



Cluster arrangement is done with six numbers of 1 BHK units at one level with three on each side. The carpet area for one unit is 24.8 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. These ducts are enclosed with precast concrete jail.

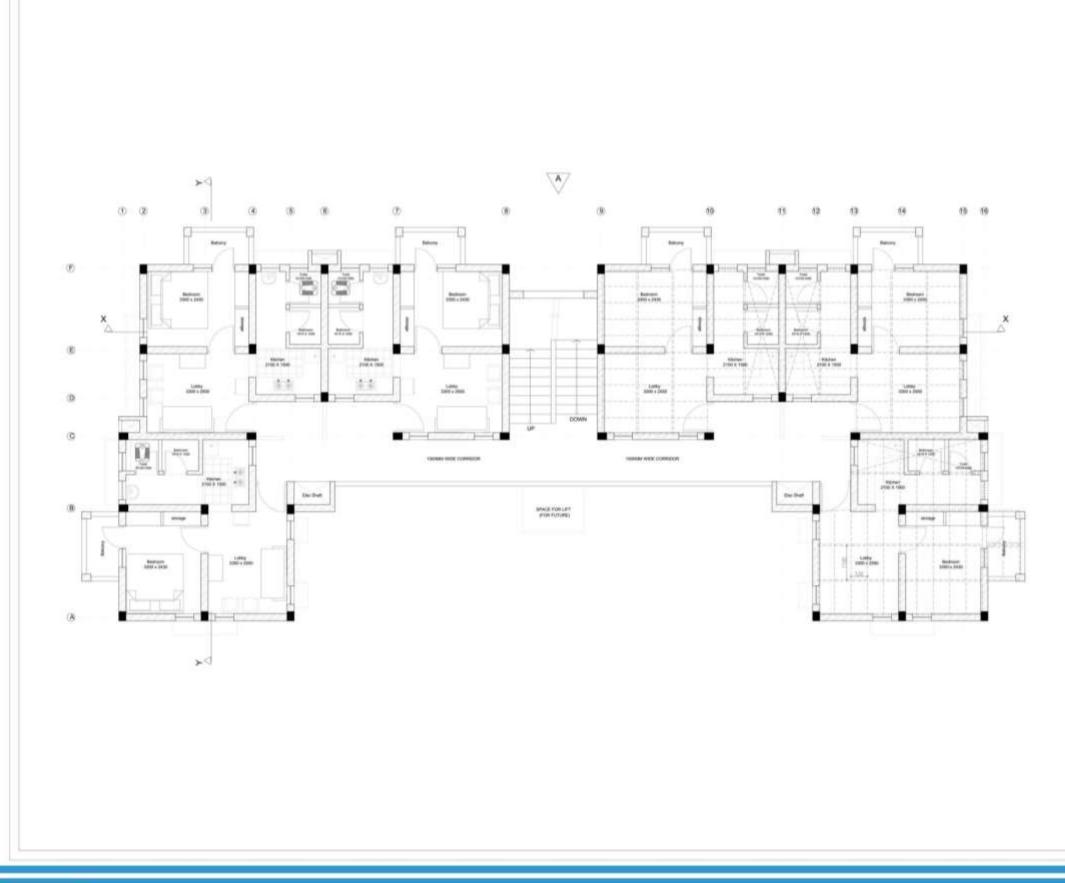
The brick masonry work for the super structure is done with fly ash bricks laid in rat-trap bond. Flooring system has been designed with pre cast arch panel roofs supported by per cast beams. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of 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 users.



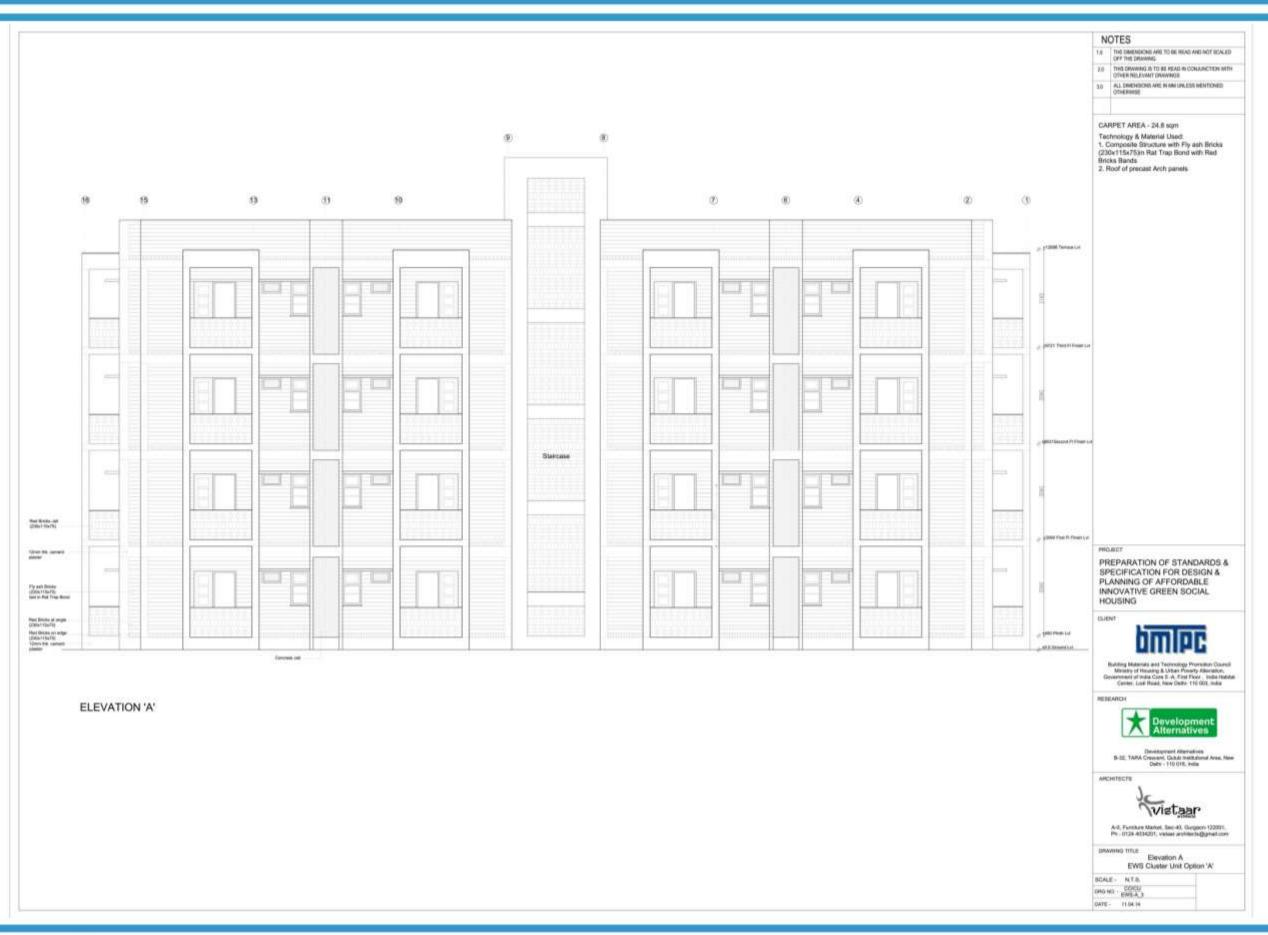






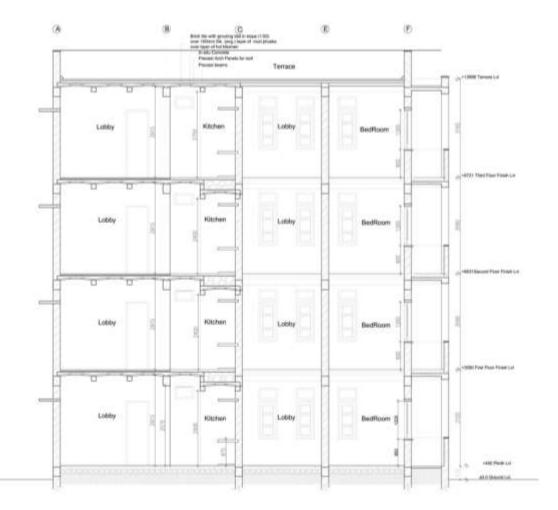
DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coastal Region)

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DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coastal Region)

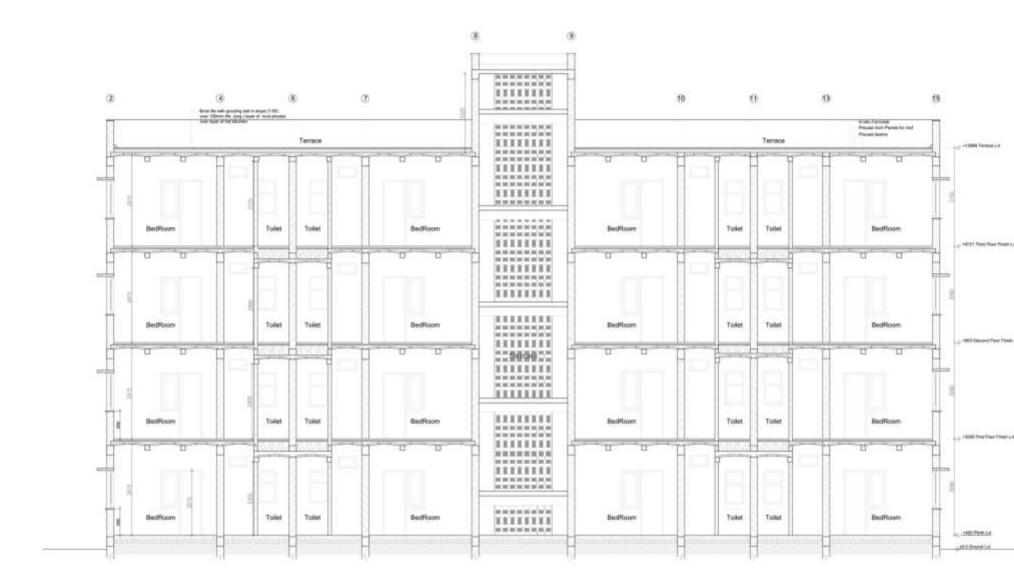




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Figure 25: FRONT VIEW OF EWS CLUSTER UNIT OPTION- A



Figure 26: PERSPECTIVE VIEW OF EWS CLUSTER UNIT OPTION- A





Cluster arrangement is done with six numbers of 1 BHK units at one level with three on each side. The carpet area of one unit is 22.3 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 pipework.

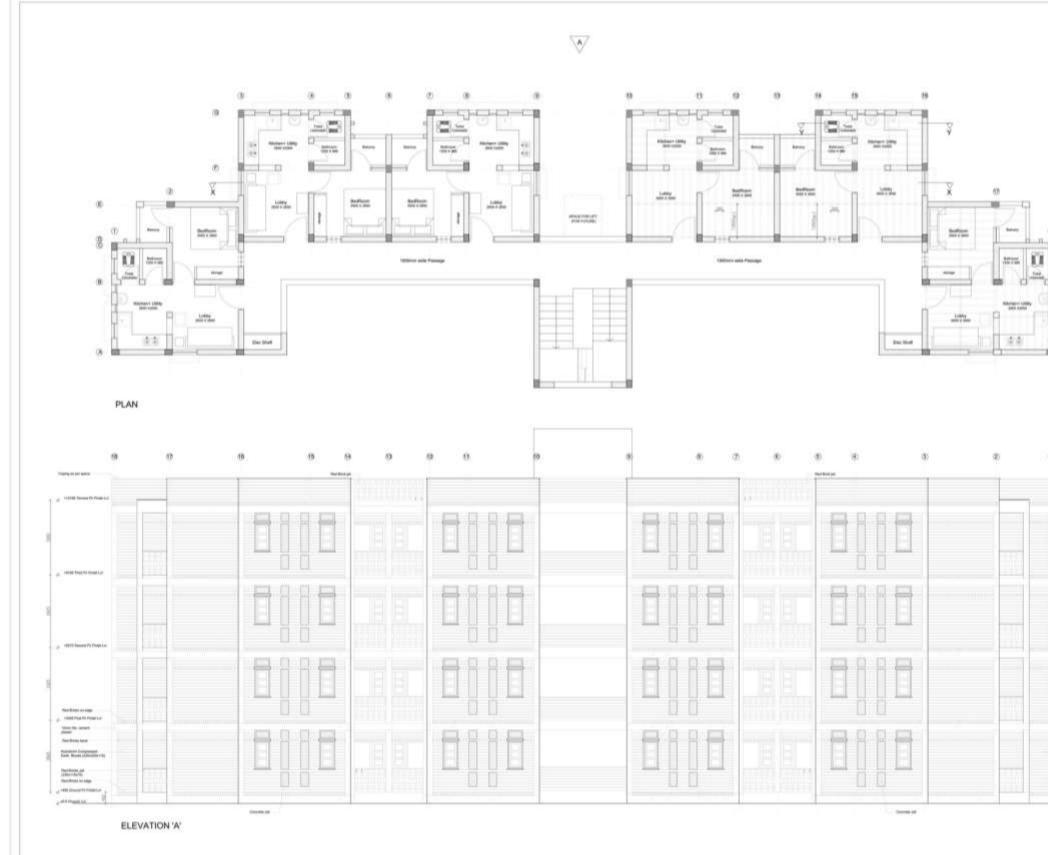
The brick masonry work for the super structure is done with hydra form compressed earth blocks laid in rat-trap bond. Flooring system has been designed with pre cast R.C.C planks and joists. The terrace surface is finished with brick tile grouting over the layer of mud phuska and hot bitumen layer of the top floor slab. An alternate option has also been designed with sloping roof.

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.





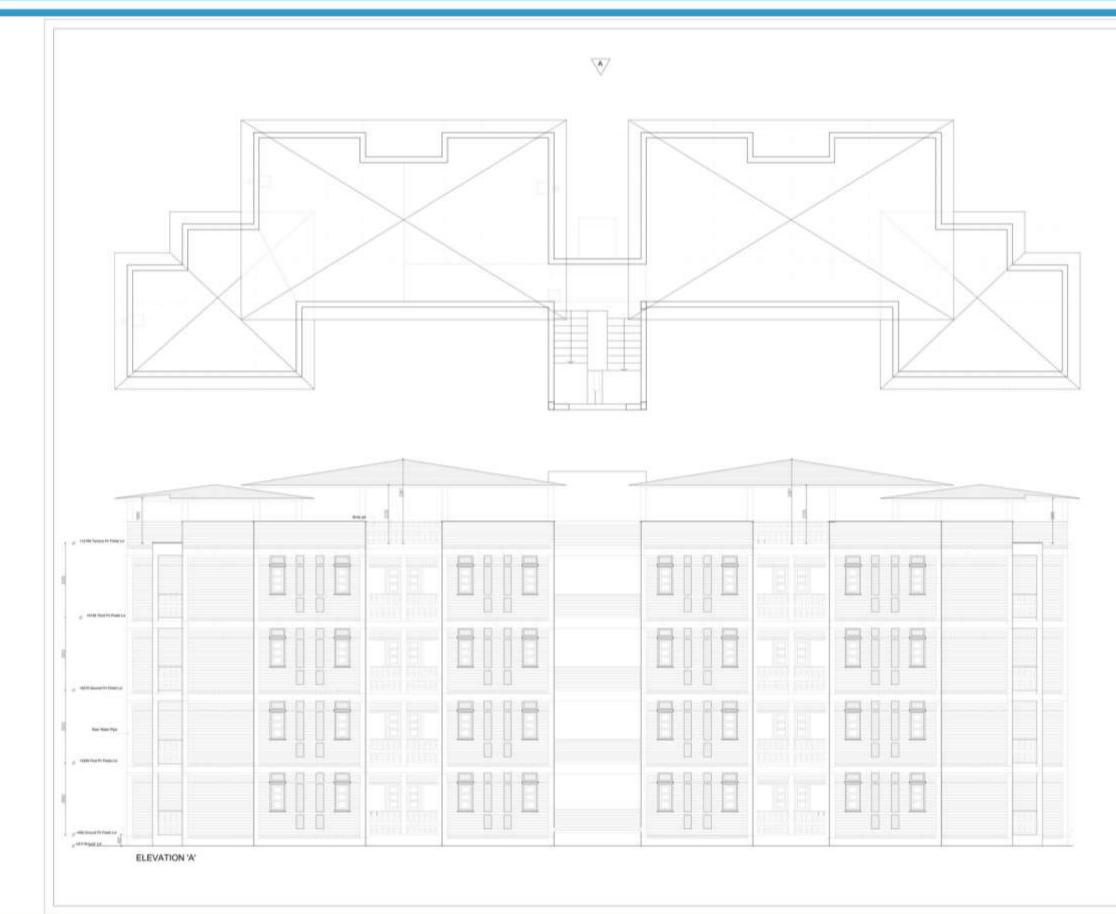




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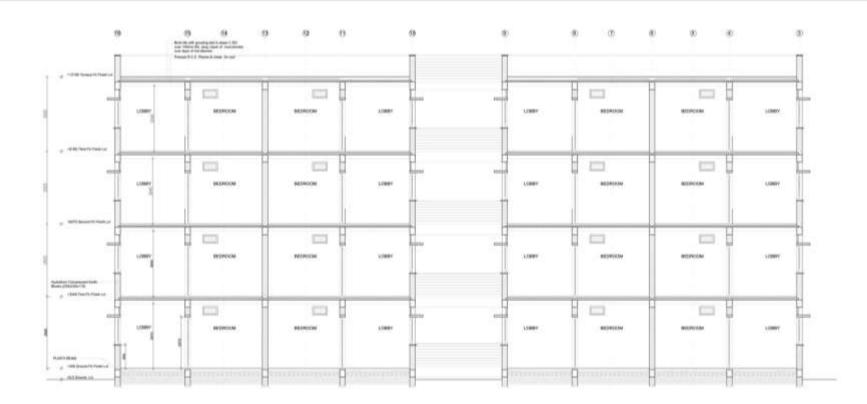
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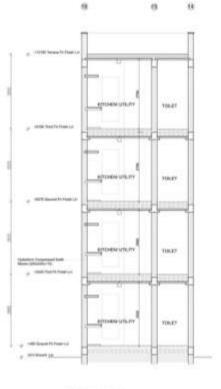




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Figure 27: FRONT VIEW OF EWS CLUSTER UNIT OPTION- B



Figure 28: PERSPECTIVE VIEW OF EWS CLUSTER UNIT OPTION- B





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5

Lower Income Group-A

(LIG-A):

The carpet area of a dwelling unit-

28-40 sqm

Floor Area Ratio- 1.75





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 35.36 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. For permanent ventilation of the habitable area precast louvers has been incorporated to the design. The layout allows easily adaptable internal arrangements.

The super structure has been designed with hydra form compressed earth blocks laid in rat- trap masonry bond. The roofing above the veranda has been done with Micro Concrete Tiles (MCR). Roofing of the main unit is done with pre cast arch panel roof supported by pre cast beams. Terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen above the roof slab.

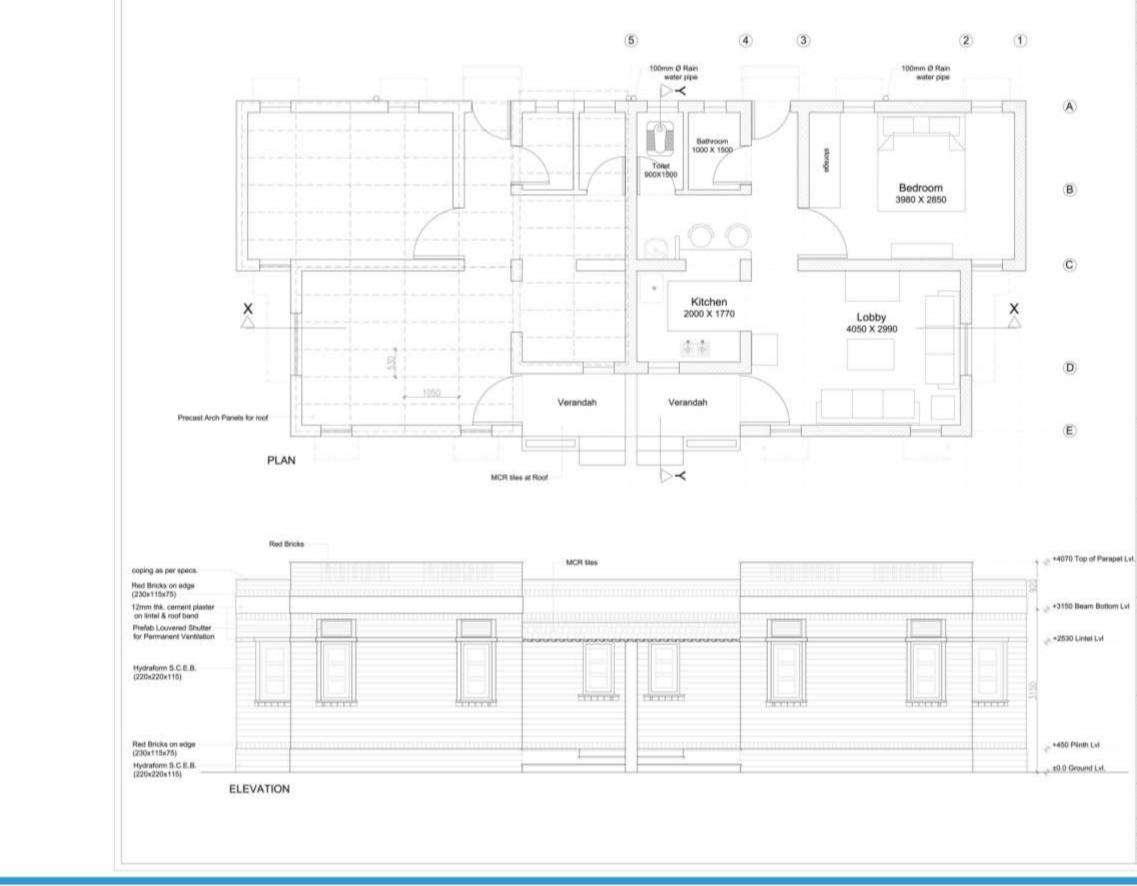
For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

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





5(e) LIG-A INDIVIDUAL UNIT OPTION-A

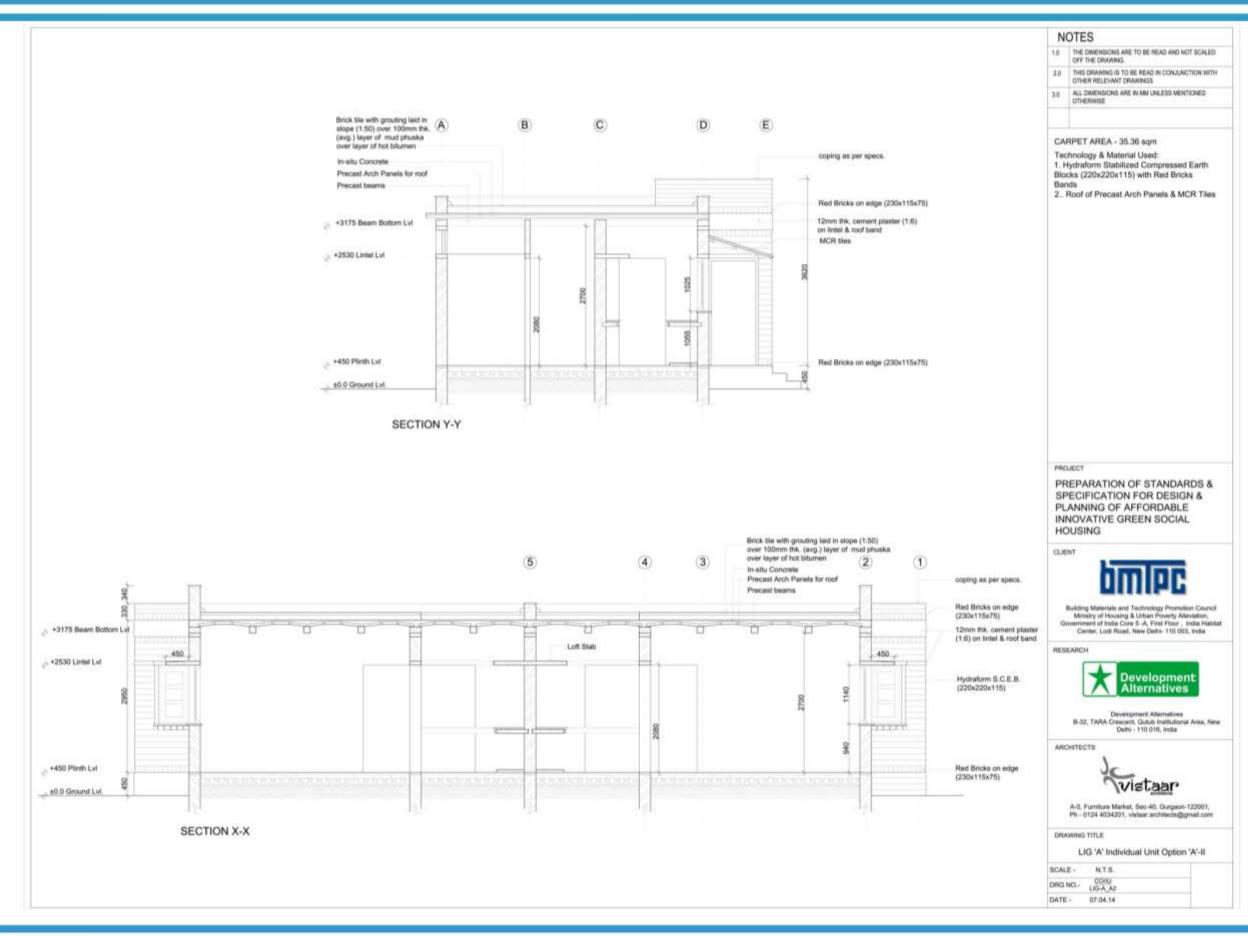






LIG-A INDIVIDUAL UNIT OPTION-A

5(e)





5(e) LIG-A INDIVIDUAL UNIT OPTION-A



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



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





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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 34.5 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. For permanent ventilation precast louvers has been incorporated to the design. The layout allows easily adaptable internal arrangements.

The super structure has been designed with red bricks laid in rat- trap bond. Roofing has been done with pre cast Reinforced Cement Concrete (R.C.C.) planks and joist. 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.

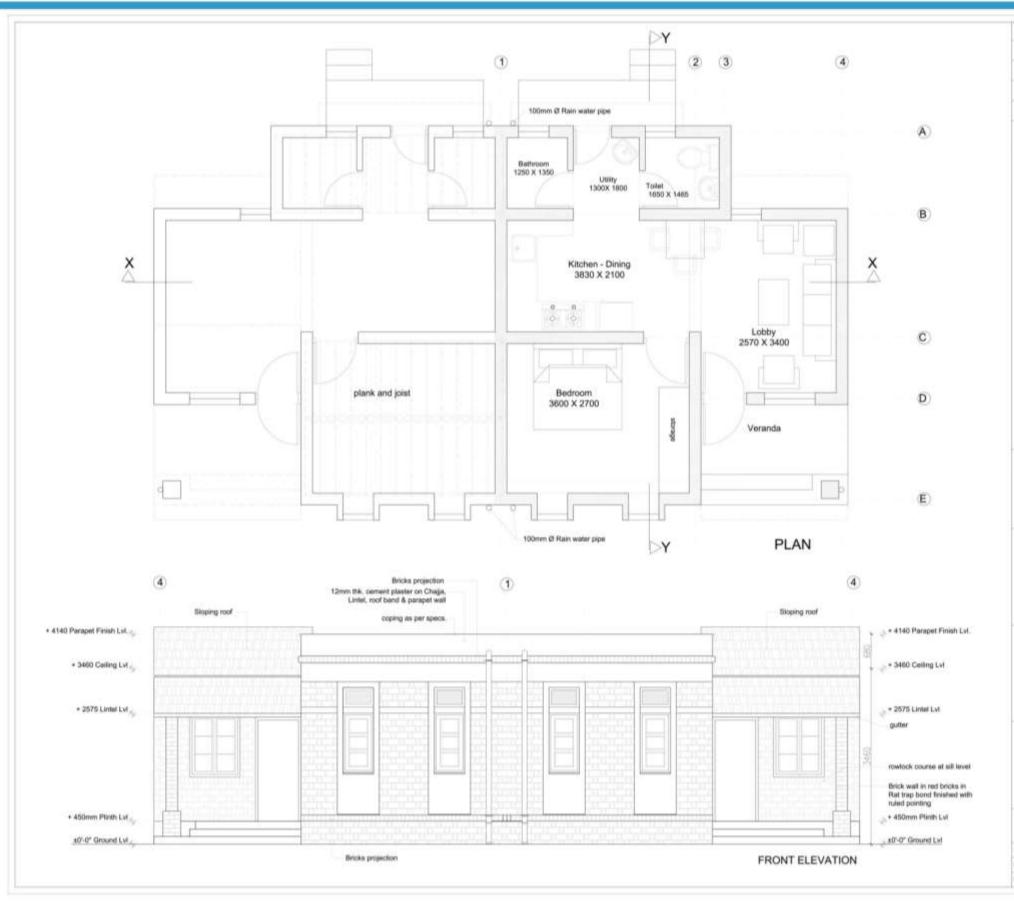
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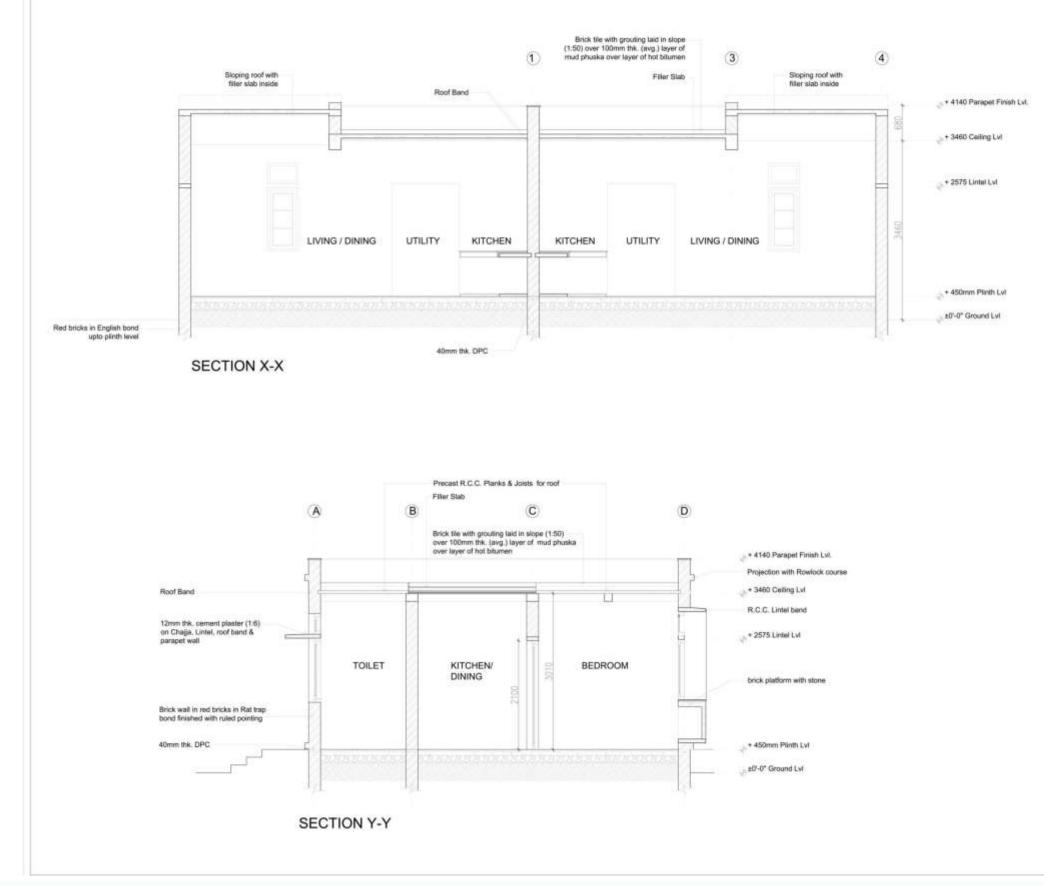
5(f) LIG-A INDIVIDUAL UNIT OPTION-B







5(f) LIG-A INDIVIDUAL UNIT OPTION-B





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5(f) LIG-A INDIVIDUAL UNIT OPTION-B



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



Figure 32: STREET VIEW OF LIG-A INDIVIDUAL 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 29 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 pipework.

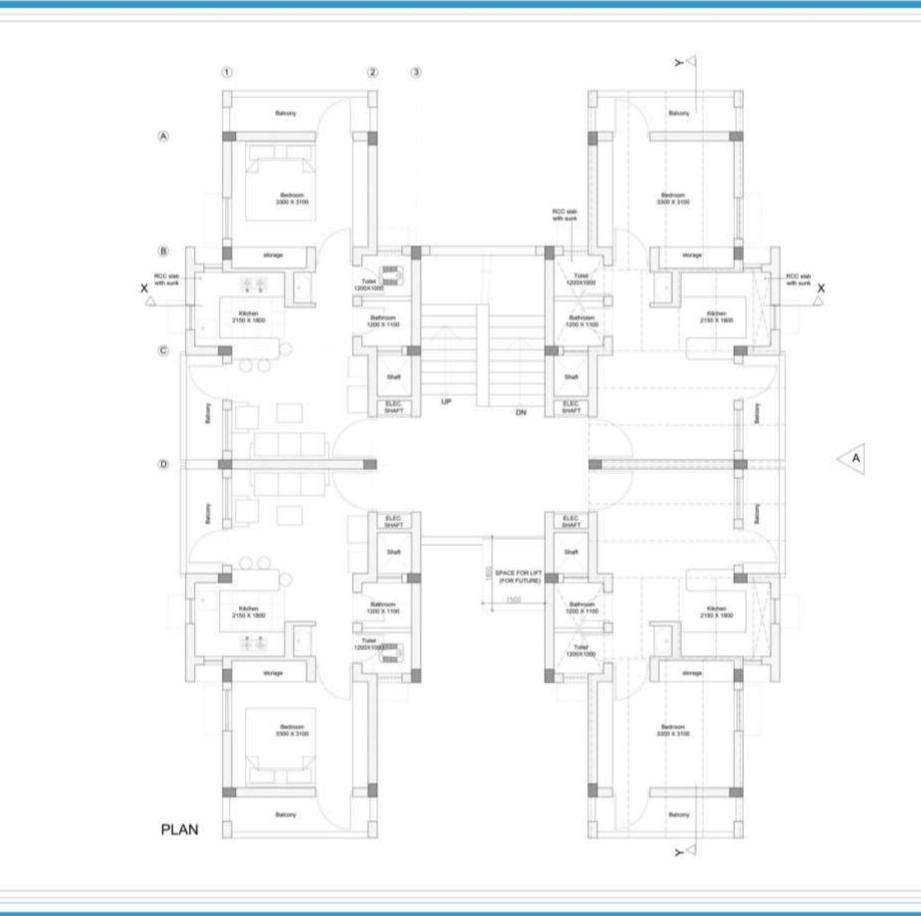
The brick masonry work for the super structure is done with hydra form stabilised compressed earth blocks laid in rat-trap bond. Flooring is done with pre cast Ferro cement arch panels supported by pre cast beams. The terrace surface is finished with brick tile grouting over the layer of mud phuska and 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.

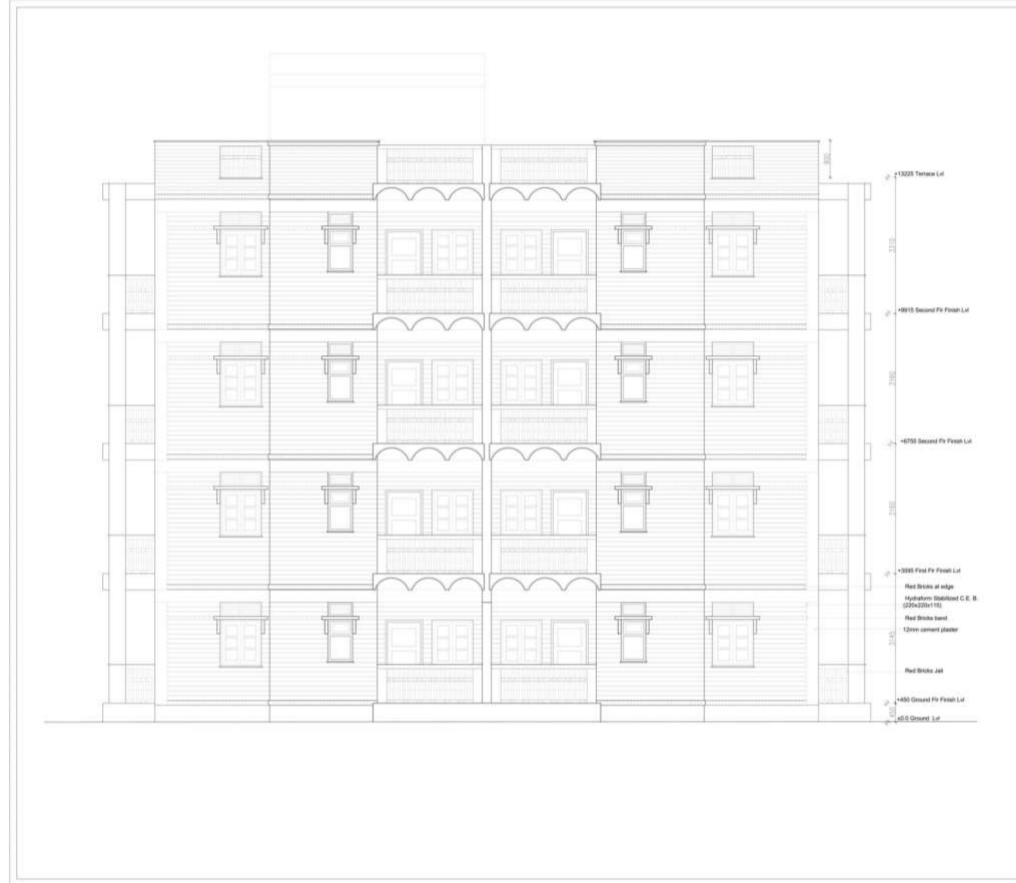






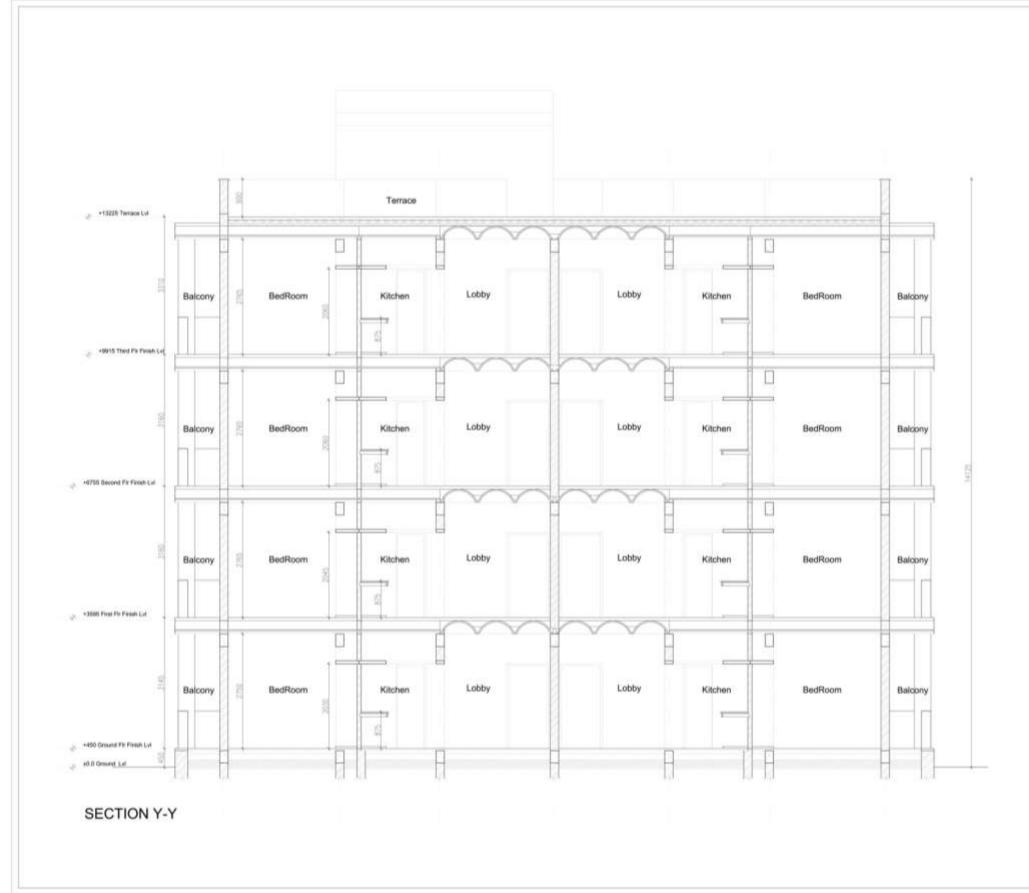


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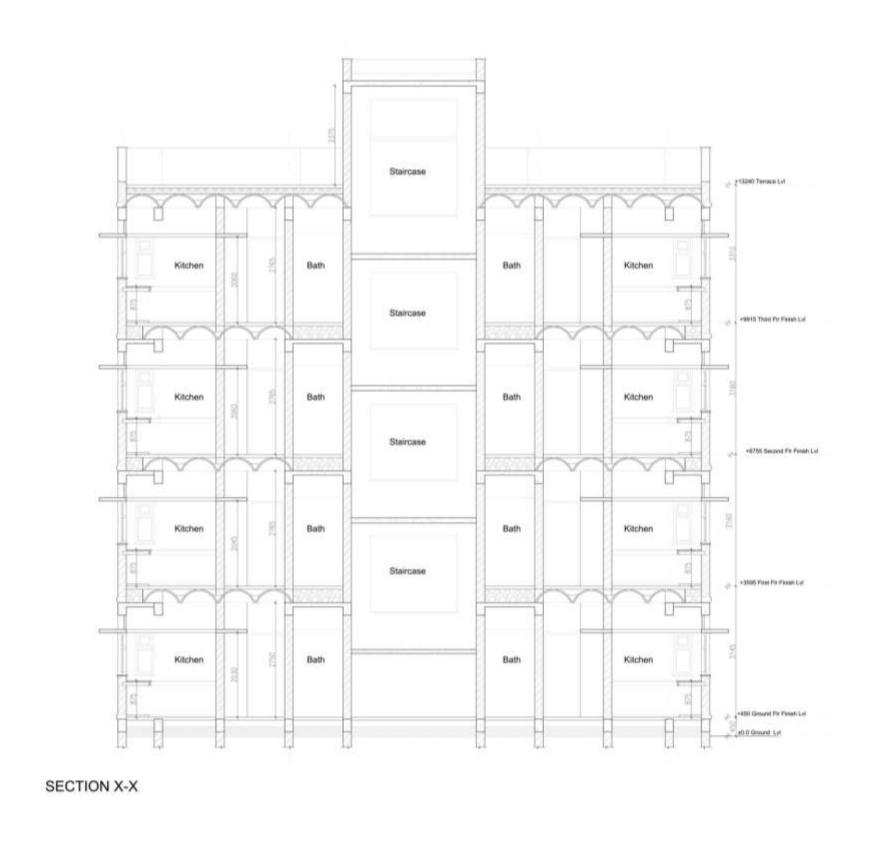


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Figure 33: PERSPECTIVE VIEW OF LIG-A CLUSTER UNIT OPTION -A





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 30.2 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 kitchen and other accessible through living area for proper day lighting and ventilation. Kitchen area has a space separated for dining purpose. Also common service ducts are designed for pipework.

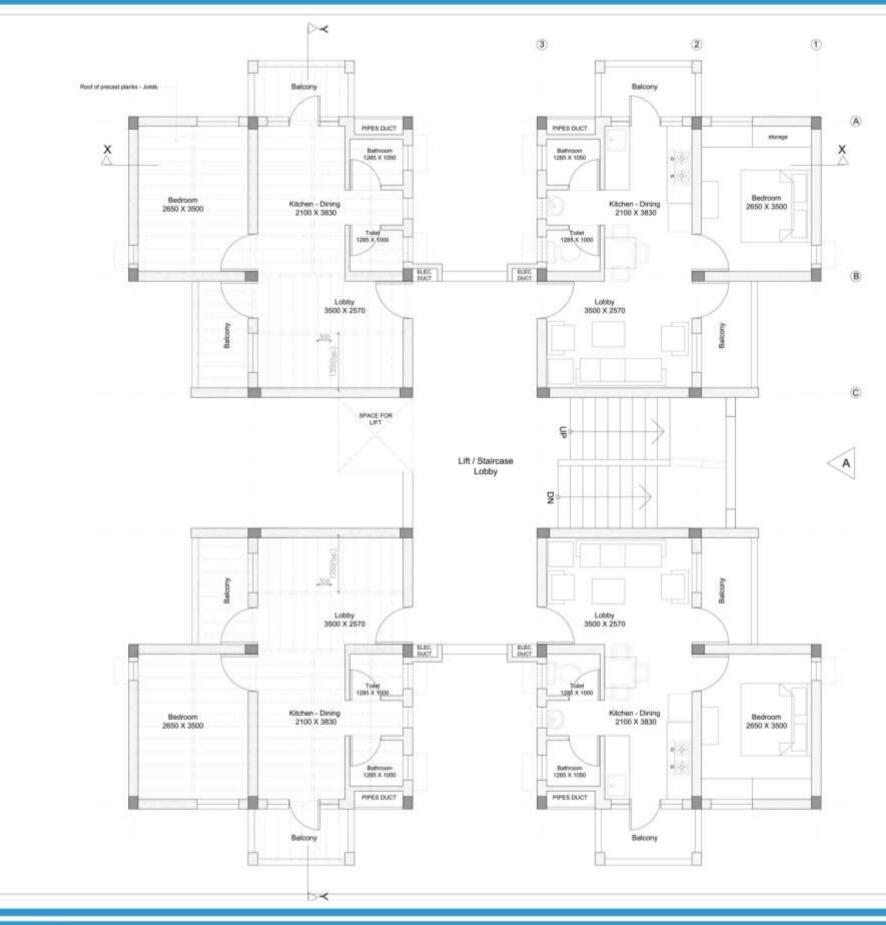
The brick masonry work for the super structure is done with hydra form stabilised compressed earth blocks laid in rat-trap bond. Flooring is done with pre cast Reinforced Cement Concrete (R.C.C.) planks and joists. The terrace surface is finished with brick tile grouting over the layer of mud phuska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

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







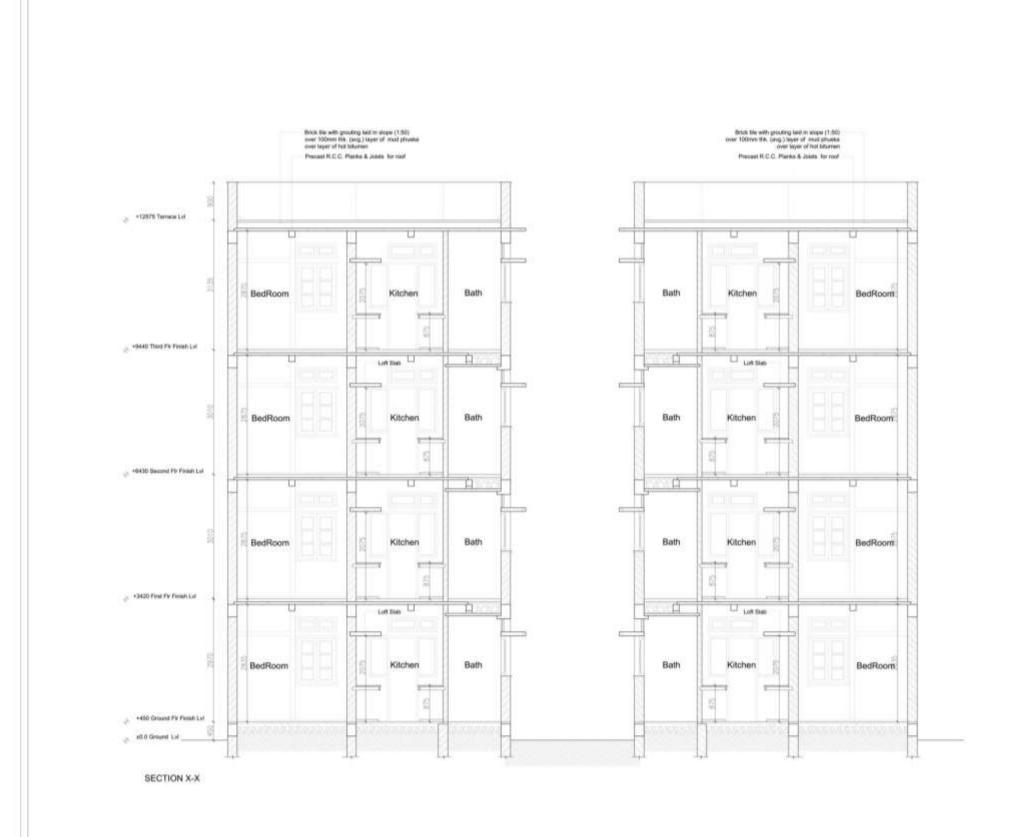
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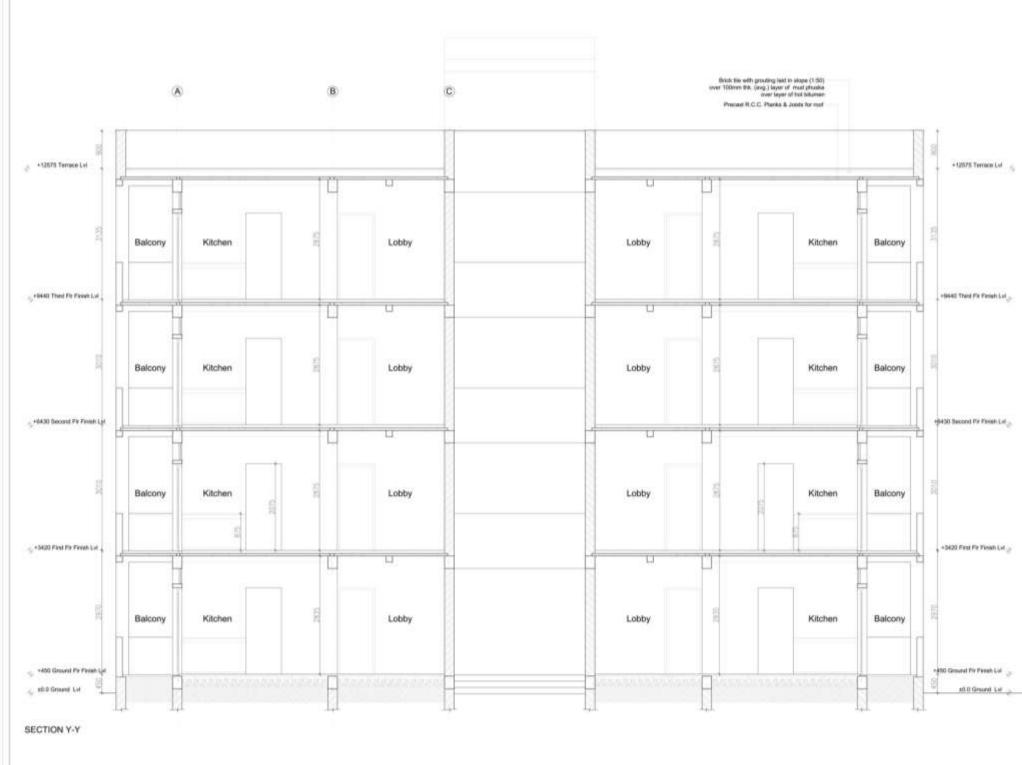


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Figure 34: FRONT VIEW LIG-A CLUSTER UNIT OPTION-B



Figure 35: PERSPECTIVE VIEW OF LIG-A CLUSTER UNIT OPTION-B





Lower Income Group

(LIG-B):

The carpet area of a dwelling unit-

41-60 sqm

Floor Area Ratio- 1.75





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 59.06 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 is provided with permanent ventilation through the pre-fabricated louvers. 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 Reinforced Cement Concrete (R.C.C.) planks and joist. The roof over the veranda is separated from the main unit and is made up of Micro Concrete Tiles (MCR). The terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen over the roof slab.

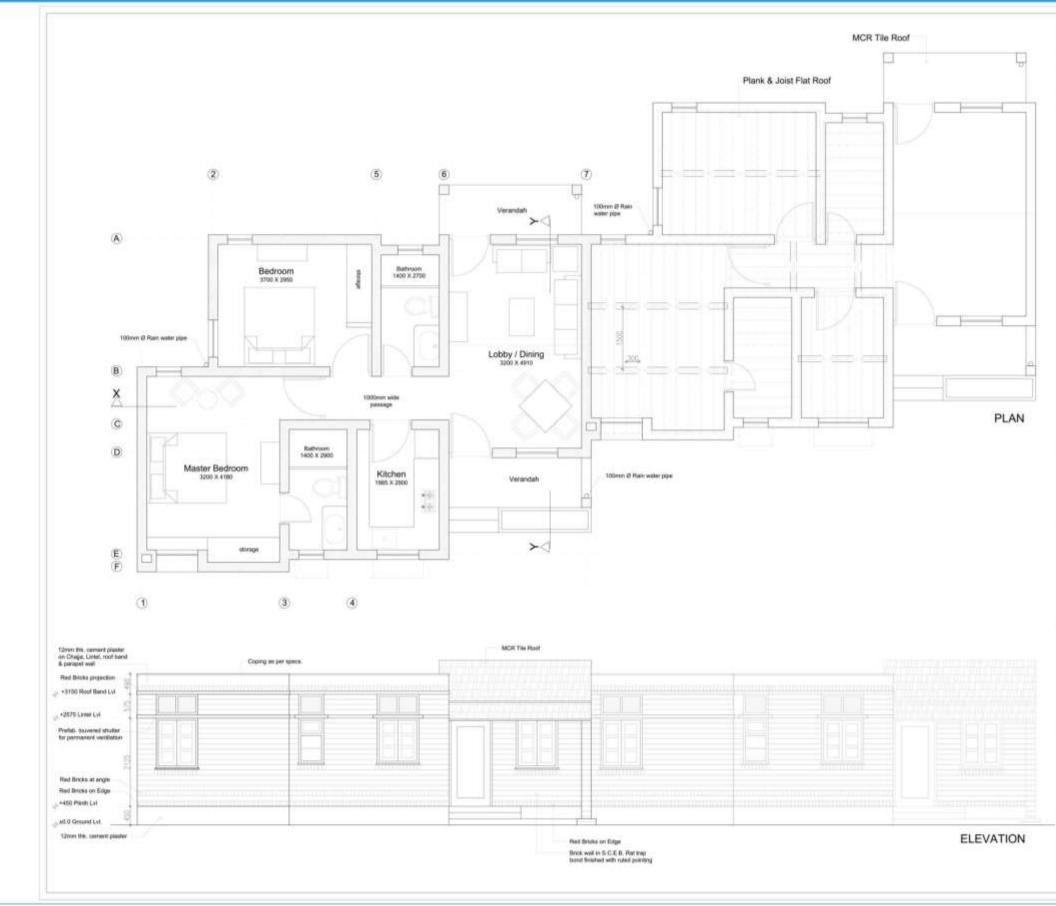
For disaster resilience, continuous sill and lintel band is incorporated in the design. The chajjas designed will provide barrier from direct sunlight and also from rain.

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





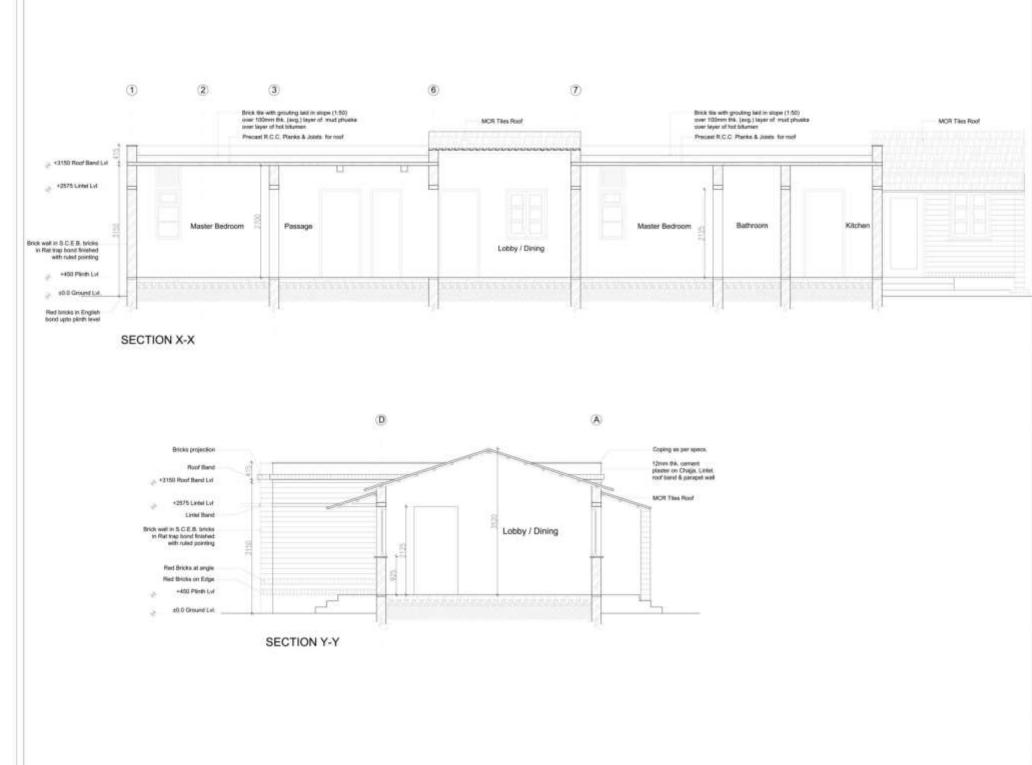
5(i) LIG-B INDIVIDUAL UNIT OPTION-A







5(i) LIG-B INDIVIDUAL UNIT OPTION-A





5(i) LIG-B INDIVIDUAL UNIT OPTION-A



Figure 36: VIEW OF LIG-B INDIVIDUAL UNIT OPTION-A



Figure 37: STREET VIEW OF LIG-B 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 of 2BHK typology with carpet area of 51.5 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 is done with Ferro cement arch panels. The terrace floor is finished with brick tile over a layer of mud phuska and hot bitumen over the roof slab.

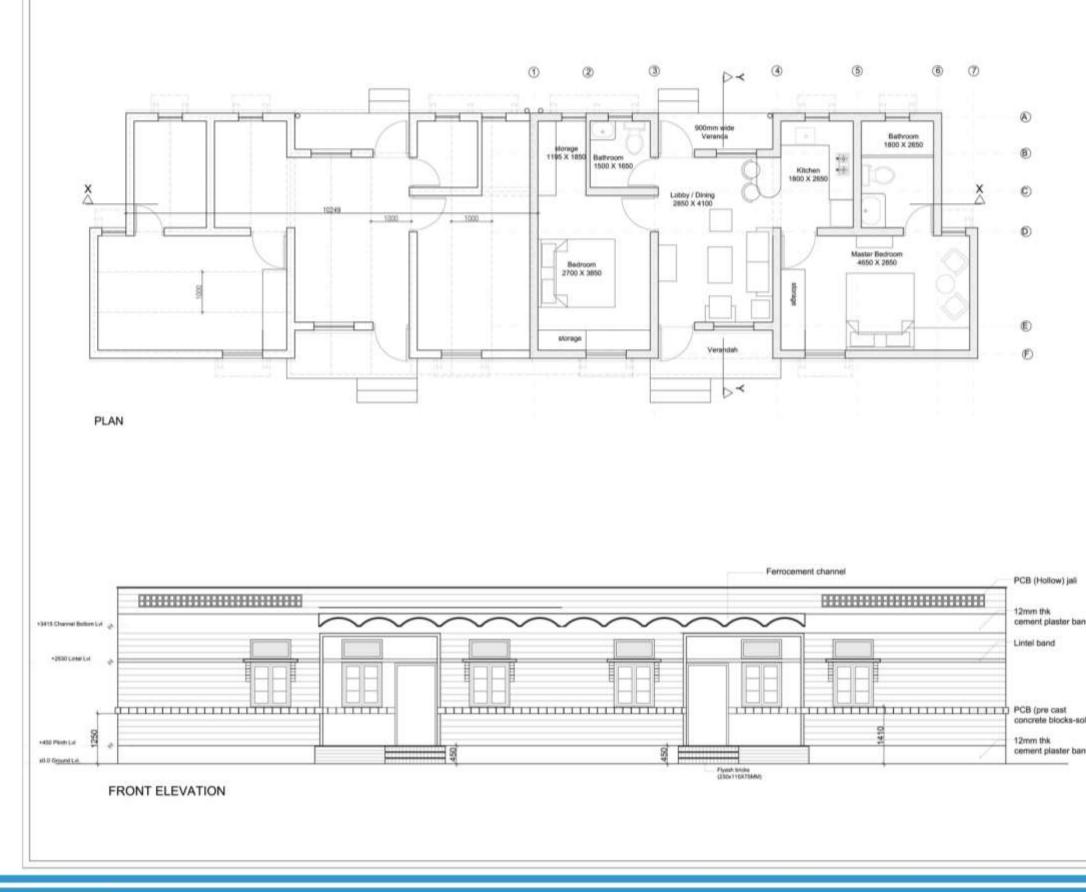
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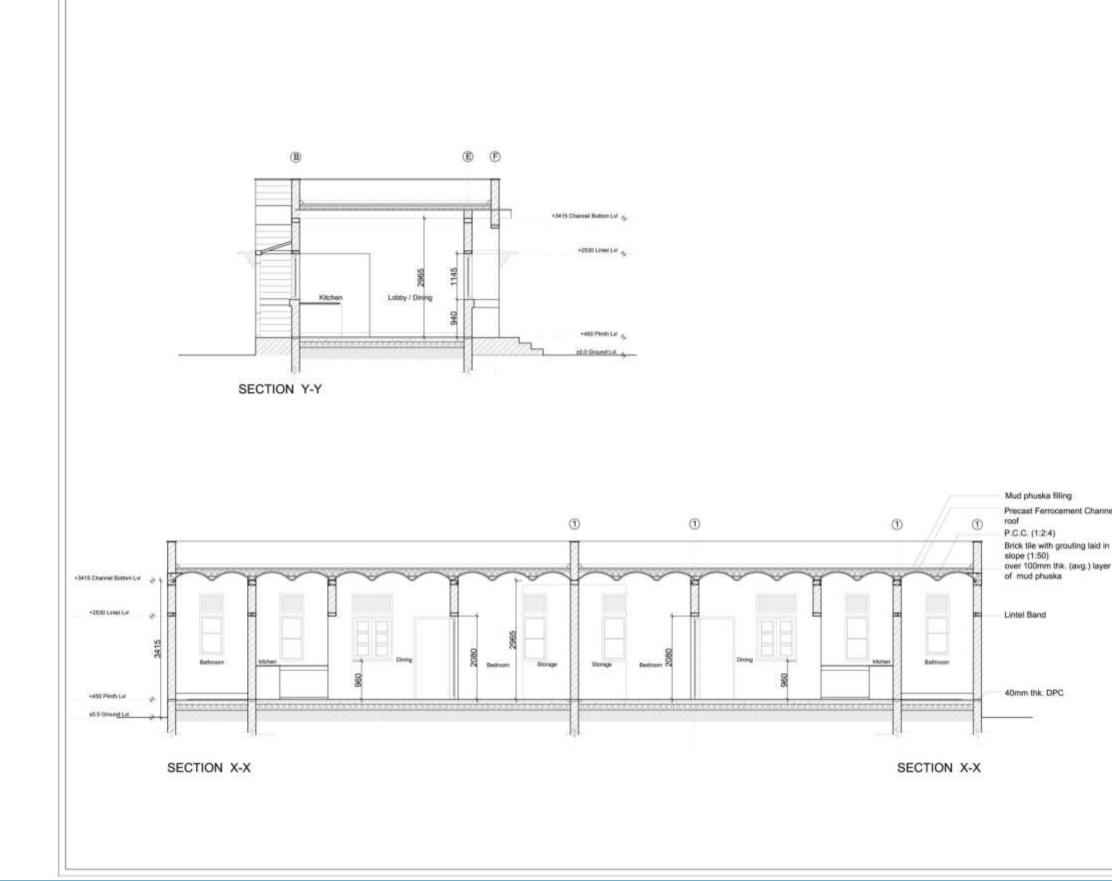
5(j) LIG-B INDIVIDUAL UNIT OPTION-B





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5(j) LIG-B INDIVIDUAL UNIT OPTION-B





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5(j) LIG-B INDIVIDUAL UNIT OPTION-B



Figure 38: VIEW OF LIG-B INDIVIDUAL UNIT OPTION-B



Figure 39: VIEW OF LIG-B INDIVIDUAL UINIT OPTION-B





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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 57.4 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 leading to the master bedroom at the front with kitchen and washroom at alternate sides. Each unit has been provided with three balconies, accessible through kitchen, living area and through master bedroom for proper day lighting and ventilation. Also common service ducts are designed for pipework.

The super structure is done with a combination of red bricks and fly ash bricks in a specific pattern 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.

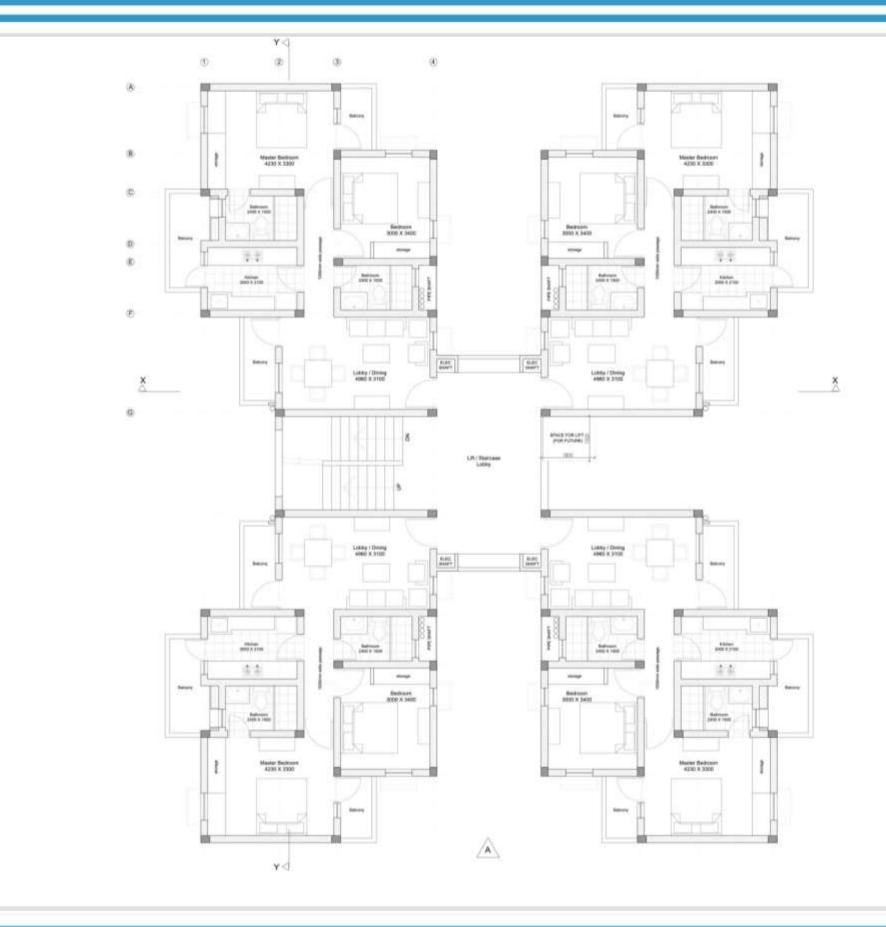
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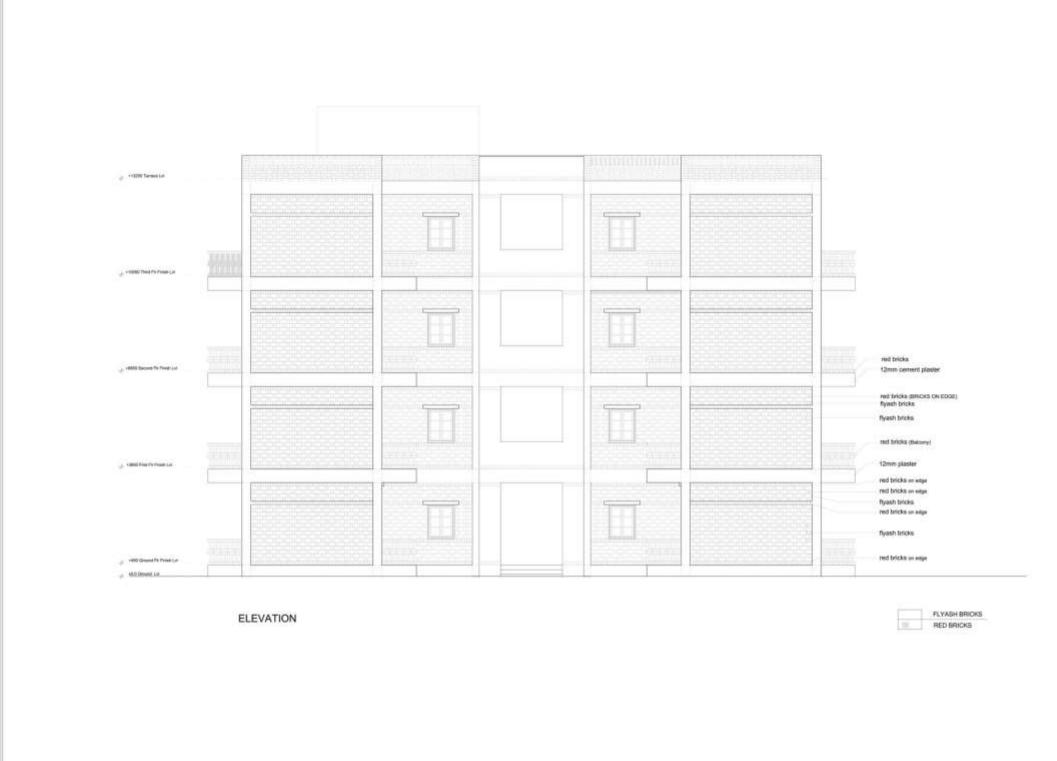


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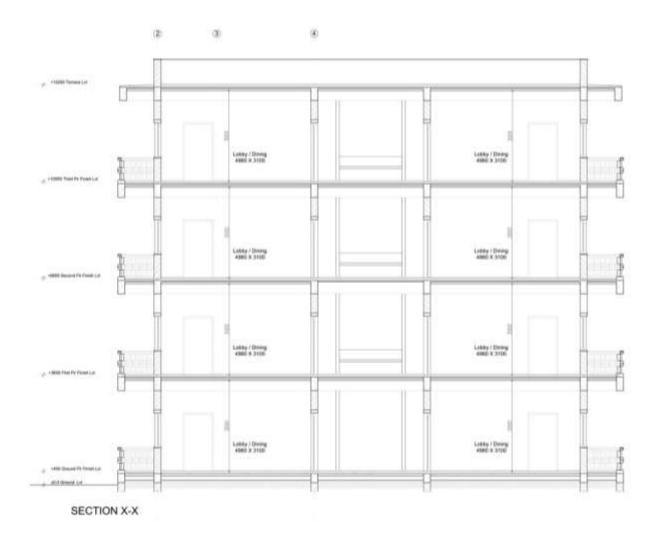


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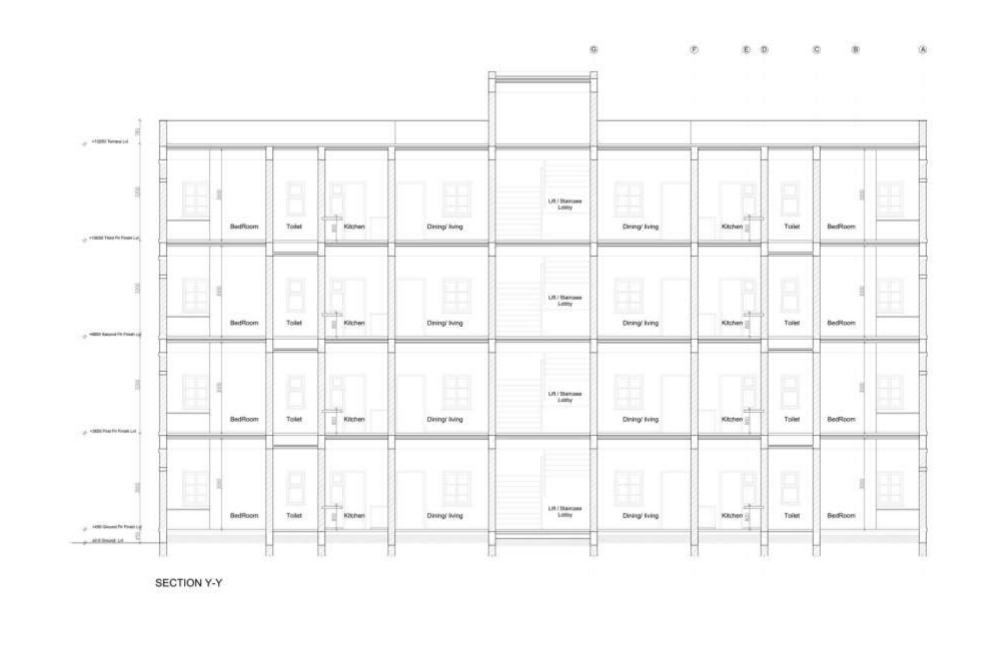


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Figure 40: FRONT VIEW OF LIG-B CLUSTER UNIT OPTION-A



Figure 41: PERSPECTIVE VIEW OF LIG-B CLUSTER UNIT OPTION-A





Cluster arrangement is done with four number of units with 2 BHK typology at one level with two on each side. The carpet area of each unit is 60 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 with store, kitchen and washroom on one side. Each unit has been provided with three balconies, accessible through kitchen, living area and through master bedroom for proper day lighting and ventilation. Also common service ducts are designed for pipework.

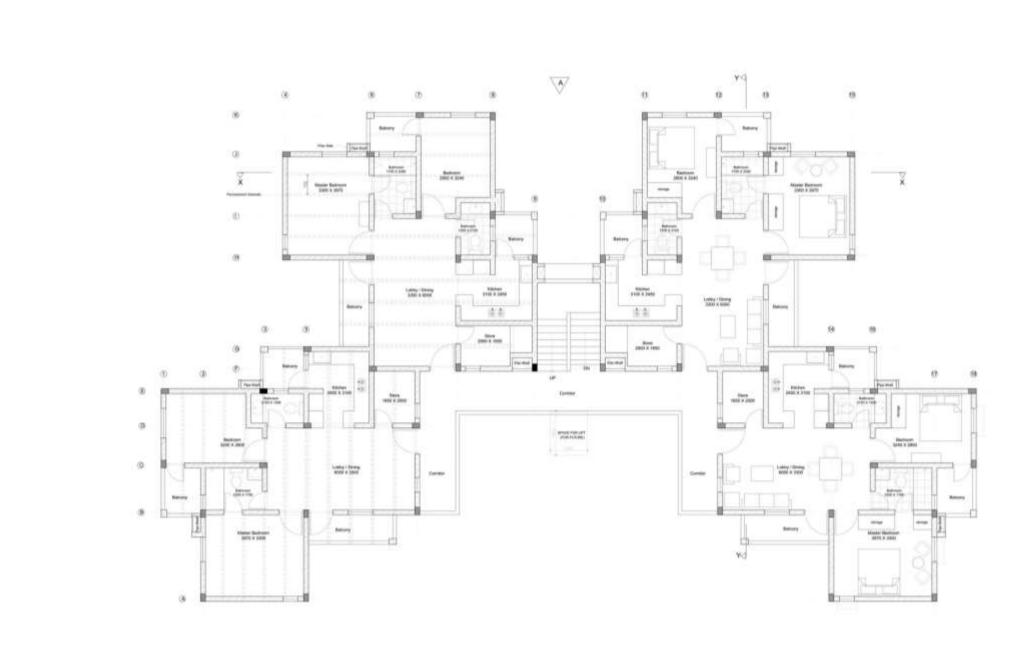
The super structure is done with a combination of stabilised compressed earth blocks and red bricks in a specific pattern laid in rat- trap bond. For ground floor laterite stone is used in the masonry work. Flooring is done with pre cast Ferro cement arch panels supported with pre- cast beams. The terrace 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.

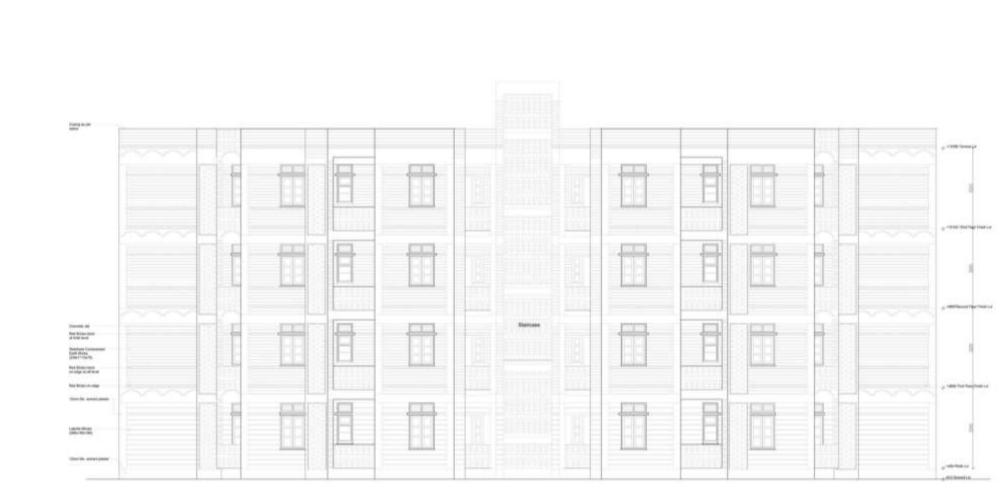








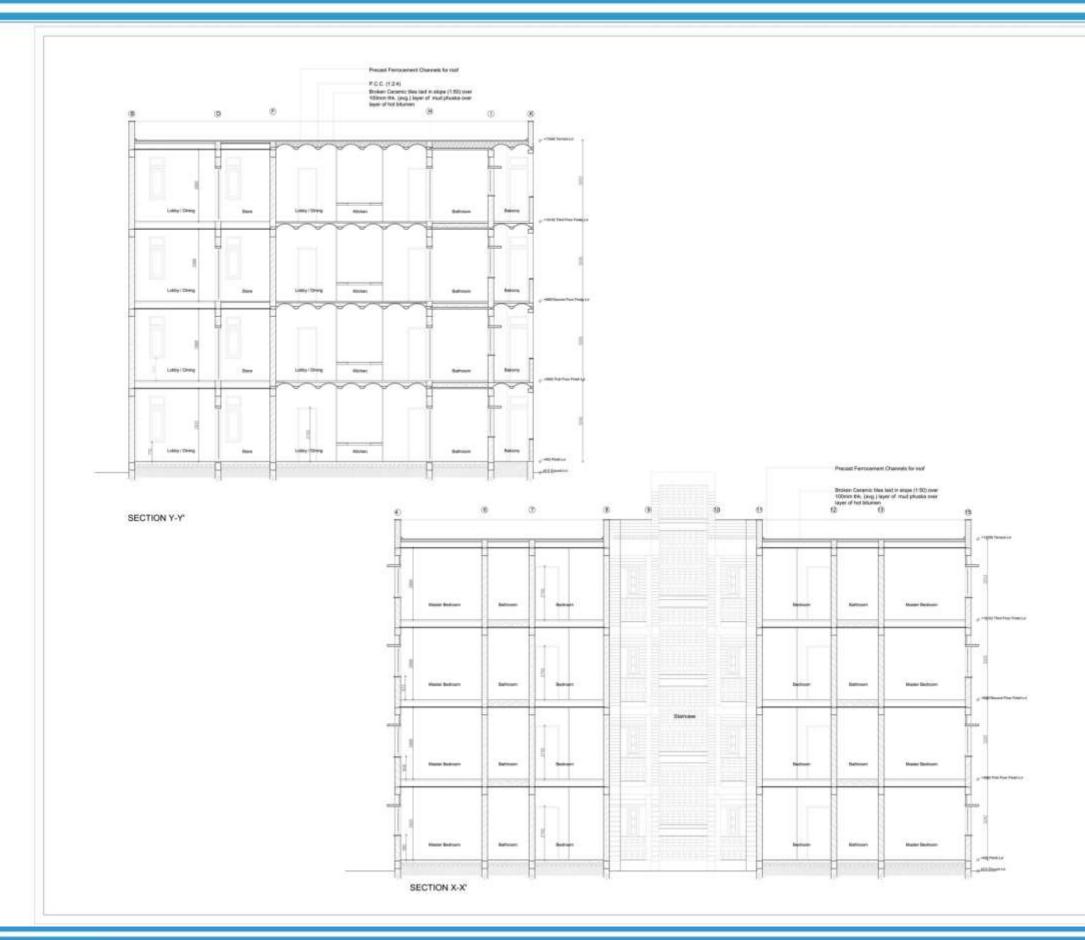
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ELEVATION 'A'



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LIG-B CLUSTER UNIT OPTION- B



Figure 42: PERSPECTIVE VIEW OF LIG-B CLUSTER UNIT OPTION



5(I)



S.No.	Description				Amount (Rs.)
A.0	Civil Works				
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous Works				
8	Plumbing				
9	Electrical				
	Total				
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further disposa	al of rain	water to be	as per site s	ituation.
BOQ fo Red bri	r E.W.S. Individual unit Option 'A' using Ferro cement Channels & MCR tiles Roof and Masonr cks	y in Rat	trap bond u	sing Fly ash	bricks &
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works				/
1	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				
1.2	directed, within a lead of 50m.	Caura			
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 chlorpyrifos /Lindane 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 foundation etc.	Cum	-		
	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	7.29		
1.4	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1 cement	Sqiii	7.25		
	: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				
1.5	(Providing) & laving 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	Super structure				
2.1	Brick work in super structure	Cum	14.59		
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in rat trap				
		1	1		
	bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above plinth level				



2.2 Brick work in FRS bricks of class designed 75 in rat trap bond in super structure above plinth level in desired pattern in cement mortar 1.4 (1 cement 1.4 corars sand) including finalishing in ruled pointings on the external steel wall where very specified. 2.3 Brick work in FRS bricks (CALS bricks) conforming to class 'A' in parapet wall in English bond in cement mortar 1.5 (1 cement : 6 coarse sand). Cum 1.32 2.4 Hord work in FRS bricks (FALS bricks) conforming to class 'A' in parapet wall in English bond in cement mortar 1.5 (n cluding providing & placing in position 2 mas. firm dia AS. Dars at every third course. Sqn 2.55 2.5 R.C.C. Brager structure Cum Cum Cum Providing A laying in position MV-30 grade of reinforcement. Cum Cum Cum 2.6 R.C.C. Is super structure Kg Cum Cum Providing A laying in position and inforcement. Kg Cum Cum 2.7 Plain cement sourcets Kg Cum Sqn 2.7 Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinith protection, sill, coping, shelves, kitchen platform etc. screeding at roof to required solution and binding and complete. Sqn 3.71 2.7 Plain cement 4 coarses and 3.8 graded stone aggregate 40mm nominal stee) Cum 3.71						
plinth level in desired pattern in cerient mortar 1:4 (1 cement 1:4 coarse sand) including	2.2		Cum	1.67		
finishing in ruled pointing on the external side of wall where ever specified. Implementation of the particle of the parts of the part						l .
2.3 Brick work in Pragabiok (FALG brick) conforming to class 'A' in parapet wall in English bond in cement mortar 1.5 (1 cement : 6 coarses sand). Sqr 2.4 115mm th brick wall Sqr 2.5.5 2.4 115mm th brick wall in common mortar 1.6 (not class 'A' in parapet wall in English brick (FALG bricks) conforming to class. 'A' in super structure above glinch incent not math 1.6, including providing & placing in position 2 Sqr 2.5 R-C.C. In Super structure Cum Cum Providing & laying in position M-20 grade of reinforced cement concrete in limitel beams, information contret walls of reinforcement. Kg Employed in the structure in super structure including cost of reinforcement. 2.6 R-C.C.In Super structure as specified, including straightening, cutting, bending, placing in position and bring all complete. Kg Employed in super structure as specified, including straightening, cutting, bending, placing in position and bring glian cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coing, shelves, kitchen platform etc. screeding at root to required slope and other locations as called for lad, consolidated and cure et c.complete as per specification and drawing. Sqn 92.07 3.1 Tetal of Subhead 2.0 Sqn 92.07 Sqn 92.07 3.1 Providing and laying plant cement concrete of space structure including counter science in the structure including counter science in the structure including counter						I
Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in parapet wall in English bord in event mortar 16 (crement - 6 corse sand) Sam 2.4 115mm thk brick wall Sam 2.55 Half brick masony 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 Sam 2.55 Providing & laving in position M-2D grade of reinforcent cement concrete in lintel beams, roof bands, hajies and counter & Loft slabs etc. in super structure including centering, shutering for generating for the function of the super structure account in the super structure account in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete. Kg Image: Sam		finishing in ruled pointing on the external side of wall where ever specified.				
bond in cement mortar 1.6 (1 cement: 6 coarse sand)	2.3		Cum	1.32		
2.4 113mm thk brick wall Spm 2.55 Half brick masony with FP ash bricks (FALG brick) conforming to class W in super structure above plinth level in cement motrar 1:6, including providing & placing in position 2 nos. 6mm dia. Ms Laws at every third course. Cum 2.5 R.C.C. In super structure models, halps and counter & Loft slabs etc. in super structure including, centering, subtrening complete but excluding cost of reinforcement. Cum 2.6 Reinforcement in super structure Kg Providing & King Reinforcement for R.C.C. work in lintel, hajjes and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position Kg 2.7 Plain complete Section (Section Section Sectio		Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in parapet wall in English				I
Half brick masony with Fly ash bricks (FAG bricks) conforming to class W in super structure above pinht breel in cernent march 1:6, including providing & placing in position 2 R.C.C. In super structure Cum Cum Cum Cum Cum Cum Rec.C. In super structure Reinforcement 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, reof slab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at root to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. Hait Bin terment 4: Comment plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 9:2.07 Total of Subhead 2.0 Walf finishes Providing and applying three or more coats of white wash with lime on wall and celling to grad. Sqm 0:2.4 Providing and applying three or more coats of white wash with lime on wall and celling to grad. Sqm 0:5.3 Providing and laying 20mm thk. Kota stone slabs on kitche						
structure above plinkh level in cement motra 1:6, including providing & placing in position 2 Image: Common 2 Providing & laying in position M-20 grade of reinforcement: Cum Image: Cum Stands, halpiss and counter & Loft slabs etc. in super structure including centering, shutering complete but verturbed, including straightening, cutting, bending, placing in position of R.C.C. work in lintel, halpiss and counter & Loft slabs in super structure as perficient, including straightening, cutting, bending, placing in position and binding all complete. Kg 2.6 Reinforcement in super structure Kg Image: Common structure as perficient, including straightening, cutting, bending, placing in position and binding all complete. Kg Image: Common structure as perficient, sind complete, sind compl	2.4		Sqm	2.55		
nos. 6mm dia. M.S. bars at every third course. cum 28 RC.C. in super structure Cum 29 RC.C. in super structure Cum 20 Reinforcement in super structure Cum 20 Reinforcement in super structure Kg 20 Reinforcement in super structure Kg 21 Reinforcement in super structure Kg 22 Reinforcement in super structure Kg 23 Reinforcement in super structure as specified, including straightening, cutting, bending, placing in position and binding and langing plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coping, shelves, kitchen platform ret. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. 14:8:11 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum 3.71 14:0:11 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum Sqm 02:4 23:0:12 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum Sqm 02:4 24:0:17 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum Sqm 02:4 25:0:12 cement : 4						I
2.5 R.C.C. in super structure Cum Providing & laying in position M-20 grade of reinforced cement concrete in lintel beam, shuttering complete but excluding cost of reinforcement. Kg 2.6 Reinforcement in super structure Kg Providing & fing Reinforcement for R.C.C. work in lintel, hajes and counter & Loft slabs in super structure as specified, including straightening, cuting, bending, placing in position and binding all complete. Kg 2.7 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coping, selves, 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. Cum 3.71 Total of Subhead 2.0 Sqm 9.20 3.71 Total of Subhead 2.0 3.1 Providing 12 mm thick cement plaster of mix 1.6 (1 cement: 6 coarse sand). Sqm 92.07 3.2 Line wash Sqm 9.2.07 3.1 Providing and applying three or more coats of white wash with line on wall and celling to gurd and supplying three or more coats of white wash with line on wall and celling to gurd and supplying three or more coats of white wash with line on wall and celling to gurd and supplying three or more coats of white wash with line on wall and celling to gurd and supplying three or more coats of white wash with line on wall and celling to gurd and supplying and supplying on th						1
Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, roof bands, haigs and counter & Loft slabe stc. in super structure including centering, shuttering complete but excluding cost of reinforcement. Kg 2.6 Reinforcement in super structure Kg Providing & fining Reinforcement for R.C.C. work in lintel, hajies and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete. Kg Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, slil, coping, shelves, kitchen platform ret. screeding at roof to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
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3.5 Dado Sqm 15.37 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. Sqm 23.76 4.1 IPS Flooring Sqm 23.76 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. Sqm 2.69 4.2 IPS Skirting Sqm 3 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. Sqm 3 4.3 Ceramic tile Flooring Sqm 3 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. Sqm 3 4.3 Ceramic tile Flooring Sqm 3 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 i						1
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		Supplying and filling in plinth with sand under floors including watering, ramming,			T	
consolidating, and dressing complete.						
4.6Damp proof membraneSqm23.76		Down proof mombrono	Sam	23 76		
Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC	4.6		Juli	23.70	<u> </u>	
Total of Subhead 4.0	4.6	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC	Juli	23.70		



5	Door Windows				
5.1	RCC Frame for door				
J.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)	1200 x 2125mm	Nos.	1		
b)	900 x 2125mm	Nos.	1		
b)	750 x 2125mm	Nos.	2		
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)	1000x1200mm	Nos.	2		
b)	600x1200mm	Nos.	1		
b)	600x1085mm	Nos.	2		
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)				
	Wooden panelled door shutter using local wood as per approval, 12mm thk. Particle board /				
i)	M.S. jali as per requirement of panel 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				
ii)	section of size 59x24 mm and wall thickness 2 mm (\pm 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	
	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS : 2202 (Part				
iii)	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.				
iv)	Bamboo door shutters	Nici			
a)	550 x 2075mm	Nos.	4		
b)	800 x 2075mm	Nos.	1		
c)	650 x 2075mm Window Shutters	Nos.	2		
5.4	Window Shutters				
	Providing and fixing Wooden panelled shutter for window of given size using local wood as per approval, including providing & fixing 5mm thk. Clear float glass of approved make,				
i)	finishing with enamel paint of approved colour all complete. (Note: Hardware not included				
	in the item, to be as per selection)				
	Providing and fixing Wooden panelled shutter for window of given size using local wood as		1	<u> </u>	
	per approval, including providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm				
ii)	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			1	
a)	450x1100mm	Nos.	4	t	
b)	500x1100mm	Nos.	1		
c)	500x985mm	Nos.	2	t	
5.5	Precast Louvers				
a)	600x 365mm	Nos	2		
	Total of Subhead 5.0				
6	Roofing				
6.1	Precast Ferro cement Channel system	Sqm	10.86		
	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	0.4		
	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	29		
	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				



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

[and the second			
	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	Sgm	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	12.78	
	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	1.63	
	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	10.86	
	(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 : 3 fine sand) and			
	finished neat.			
6.8	Cement Gola	Rmt	12.8	
	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	Miscellaneous			
	Making khurras 450x450 with average minimum thickness of 50mm cement concrete 1:2:4			
7.1	over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of	Nos	2	
	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			
7.2	pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y -	Rmt	6	
	Junction with cover (for collecting rainwater) including testing of joints etc. complete.			
7.3	M.S. Grill	Sqm	1.85	
	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.			
	Total of Subhead 7.0			
	Total of "A'			





Summa	ry of BOQ for E.W.S. Individual unit Option 'B' for Coastal Region, using Filler slab Roof and N	/lasonry i	n Laterite bl	ocks	
S.No.	Description				Amount (Rs.)
A.0	Civil Works				. ,
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous Works				
8	Plumbing				
9	Electrical				
Nata	Total				-:
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further disposa	al of rain v	water to be a	is per site	situation.
BOQ fo	r E.W.S. Individual unit Option 'B' for Coastal Region, using Filler slab Roof and Masonry in La	aterite bl	ocks		
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works	ļ			
1	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 chlorpyrifos /Lindane 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.		6.55		
1.4	D.P.C.	Sqm	6.55		
	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				
1.0	straightening, cutting, bending, placing in position and binding all complete.	C			
1.8	Masonry work in foundation	Cum			
	Masonry work with Laterite stone blocks of size 390x190x190mm confirming to IS code 3620 in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).				
	Total of Subhead 1.0				
2	Super structure	<u> </u>			
2.1	Masonry work in super structure	Cum	12.82		<u> </u>
	Masonry work with Laterite stone blocks of size 390x190x190mm confirming to IS code 362	Can	12:02		
	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	0.82		
	Brick work in FPS bricks of class designation 75 in rat trap bond in super structure above				



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

				, , ,	
	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	1.84		
	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	11.96		
	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			
2.5	Providing & laying in position M-20 grade of reinforced cement concrete in Filler slab for	cum			
	roof, lintel beams, roof bands, hajjes and counter & Loft slabs etc. in super structure				
2.6	including centering, shuttering complete but excluding cost of reinforcement.	14			
2.6	Reinforcement in super structure	Kg			
	Providing & fixing Reinforcement for R.C.C. work in Filler slab for roof, lintel, hajjes 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, sill, 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	4.06	1	
.,	Total of Subhead 2.0				
3	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	107.55		
3.2	Lime wash	Sqm	120.75		
	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	1.87		
	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	0.56		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet				
	walls in cement mortar 1:6				
3.5	Dado	Sqm	13.49		
	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				+	
-	Flooring	6 mm	22.04		
4.1	IPS Flooring	Sqm	23.84	┨	
	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	3.65		
	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	2.6		
	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 flooring	Sqm	6.6		
4.5	Sand Filling	Cum	3.96		
	Supplying and filling in plinth with sand under floors including watering, ramming,				
	consolidating, and dressing complete.				
4.6	Damp proof membrane	Sqm	26.4		
0	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC	Juli	20.4	+	
├					
	Total of Subhead 4.0			┨	
5	Door Windows	1			



5.1 RCC Frame for doo					
	g Wooden Frame for door of size given below using RCC, out of section				
	ngle or double rebate as required, with holdfasts, finished with enamel				
	colour all complete.				
a) 1000 x 2125mm		Nos.	2		
b) 750 x 2125mm		Nos.	2		
5.2 RCC Frame for win					
	g Wooden Frame for window of size given below using RCC, out of				
	, with double rebate and holdfasts, finished with enamel paint of				
approved colour al	complete.				
a) 1000x1200mm		Nos.	1		
b) 600x1200mm		Nos.	2		
b) 600x1000mm		Nos.	2		
5.3 Door Shutters					
	g door shutter of sizes given below of any of following material as per in charge/ architect. (Note: Hardware not included in the item, to be as				
·	loor shutter using local wood as per approval, 12mm thk. particle board /				
	irement of panel including finishing with enamel paint of approved				
	y made PVC door shutters made of styles and rails of an uPVC hollow				
	4 mm and wall thickness 2 mm (\pm 0.2 mm) with inbuilt edging on both				
(For W.C. and bath	per manufacturer's specification and direction of Engineer-in-charge. room door shutter).				
	35mm thk. ISI marked flush door shutters conforming to IS : 2202 (Part				
	core of block board construction with frame of 1st class hard wood and				
well matched com	nercial 3 ply veneering with vertical grains or cross bands and face				
veneers on both fa					
iv) Bamboo door shut	ers	Nu	2		
a) 1000 x 2075mm		Nos.	2	+	
b) 750 x 2075mm		Nos.	2	+	
5.4 Window Shutters		Nos			
	g Wooden panelled shutter for window of given size using local wood as ding providing & fixing 5mm thk. clear float glass of approved make,				
n i ii	nel paint of approved colour all complete. (Note: Hardware not included				
in the item, to be a					
	g Wooden panelled shutter for window of given size using local wood as				
per approval, inclu	ding providing & fixing M.S. wire gauge of avg. width of aperture 1.4mm				
	3mm , finishing with enamel paint of approved colour all complete.				
	ot included in the item, to be as per selection)				
iii) Bamboo shutters					
a) 450x1100mm		Nos.	4	1	
b) 500x1100mm		Nos.	2		
b) 500x900mm		Nos.	2	1	
5.5 Precast Louvers					
a) 600x 515mm		Nos	4		
a) 1000x 515mm		Nos	1		
Total of Subhead 5	.0				
6 Roofing					
6.1 Filler material for I	iller slab	Sqm	38.3		
	as per instruction, stabilised mud blocks 50mm thk. during casting of				
6.2 Bamboo fins		Sqm	0.5		
Providing & fixing i	n position bamboo fins of size 40x40mm, including rubbing, finishing with	Ι			
enamel paint.					
6.3 Precast Concrete s		Nos	1		
Providing & fixing i	n position Precast Concrete slab of size 2440x600mm, with 1:4:8 mix with				
nominal reinforcer	nent				
6.4 Ceiling plaster		Sqm	13.2		
	nick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.				
6.5 Hot Bitumen layer		Sqm	41.78		
	esidual type petroleum bitumen of penetration 80/100 of approved	1		1	
J .					
quality at 17kg per	10sqm impregnated with a coat of coarse sand layer at 60 cudm per eaning the slab surface with brushes and finally with a piece of cloth				



	lightly soaked in kerosene oil complete.			
6.6	Mud phuska	Cum	5.75	
	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	38.3	
	(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 : 3 fine sand) and finished neat.			
6.8	Cement Gola	Rmt	23.2	
	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	Miscellaneous			
7.1	Making khurras 450x450 with average minimum thickness of 50mm 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	
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, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.	Rmt	6	
7.3	M.S. Grill	Sqm	4.34	
	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	2	
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with cement mortar 1:4.			
	Total of Subhead 7.0			
	Total of "A'			





	a 1.1				
S.No.	Description				Amount (Rs.)
A.0	Civil Works				
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous				
8	Plumbing				
9	Electrical				
	Total				
Note:	1. Estimated Cost is the cost of complete cluster (24 units)				
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal	of rain w	ater to be as	per site	situation
		or runn n		per site :	
BOO fo	r Cluster unit EWS Option 'A' for Coastal Region, using Precast Arch Panels Roof and Masonry	in Pat tra	n hand usin		Bricks
S.No.	Item Description	Unit		Rate	
	Civil Works	Unit	Quantity	Nale	Amount (Rs.
A.0					
1	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 chlorpyrifos /Lindane E.C. 20% with 1% concentration				
1.3	Back filling of earth	Cum			
1.5		Cuili	-		
	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			
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	Ĭ	İ		
	straightening, cutting, bending, placing in position and binding all complete.				
1.7	Brick work in foundation	Cum	1	-	
/	Brick work with FPS bricks of class designation 75 in foundation and plinth in cement mortar	Cuili			
	1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2					
2	Super structure	-	07		
2.1	Brick work in super structure in rat trap bond	Cum	275.78		
	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	16.56		
	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.				
2.3	115 thk. wall	Rmt	1652.95		
-		+			1
	115mm thk. Masonry work using Stabilised. Hydraulically Compressed Farth Blocks in Super				
	115mm thk. Masonry work using Stabilised, Hydraulically Compressed Earth Blocks in super structure above plinth level as per the guidelines of Hydra form construction manual.				





6(c) ANNEXURE-III (EWS-CLUSTER UNIT-OPTION-A)

				1	
	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)				
2.5	Brick Jali	Sqm	7.09		
	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 columns, beams,				
	roof slab, lintel beams, hajjes 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 columns, beams, roof slab, lintel, hajjes				
	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, sill, 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	99.82		1
	Total of Subhead 2.0				1
3	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	3033.74		1
3.2	Lime wash	Sqm	3815.74		1
	Providing and applying three or more coats of white wash with lime on wall and ceiling to	24.11	5515.74		1
	give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and	1			
	DDL adhesive etc. complete.	1			
3.3	Stone Counters	Sqm	48.74		
5.5	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk.	Juli	40.74		
	Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.				
3.4	Coping	Sqm	48.94		
5.4	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls	Sym	40.94		
	Providing & fixing zonnin thk. coping of burnt cidy paving the, on window sin & parapet wans				
1					
25	in cement mortar 1:6	Cam	221.02		
3.5	in cement mortar 1:6 Dado	Sqm	331.92		
3.5	in cement mortar 1:6 Dado Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness,	Sqm	331.92		
3.5	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	Sqm	331.92		
3.5	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	Sqm	331.92		
3.5	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,	Sqm	331.92		
3.5	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.	Sqm	331.92		
	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	Sqm	331.92		
4	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				
	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 IPS Flooring	Sqm Sqm Sqm	331.92 331.92 576.6		
4	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 IPS Flooring Providing and laying 40mm thk. IPS flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone				
4	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 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				
4 4.1	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 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.	Sqm	576.6		
4	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 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				
4 4.1	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 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 with cement mortar 1:3 (1 cement: 3	Sqm	576.6		
4.1	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 	Sqm	576.6 84.91		
4 4.1	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. Ceramic tile Flooring 	Sqm	576.6		
4.1	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. Ceramic tile Flooring Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, 	Sqm Sqm	576.6 84.91		
4.1	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 	Sqm Sqm	576.6 84.91		
4.1	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 	Sqm Sqm	576.6 84.91		
4.1	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 	Sqm Sqm	576.6 84.91		
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4 4.1 4.2 4.3	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 	Sqm Sqm Sqm	576.6 84.91 60		
4 4.1 4.2 4.3 4.4	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring 	Sqm Sqm Sqm Sqm Sqm	576.6 84.91 60 144.15		
4 4.1 4.2 4.3 4.4	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring 	Sqm Sqm Sqm Sqm Sqm	576.6 84.91 60 144.15		
4 4.1 4.2 4.3 4.4	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. Ceramic tile Flooring Providing and laying cramic 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. 	Sqm Sqm Sqm Sqm Sqm	576.6 84.91 60 144.15		
4 4.1 4.2 4.3 4.4 4.5	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane 	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		
4 4.1 4.2 4.3 4.4 4.5	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC 	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		
4 4.1 4.2 4.3 4.4 4.5 4.6	 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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC Total of Subhead 4.0 	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		
4 4.1 4.2 4.3 4.4 4.5 4.6 5	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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Suplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC Total of Subhead 4.0 Door Windows	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		
4 4.1 4.2 4.3 4.4 4.5 4.6	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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Sand Filling Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC Total of Subhead 4.0 Door Windows RCC Frame for door	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		
4 4.1 4.2 4.3 4.4 4.5 4.6 5	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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC Total of Subhead 4.0 Providing and fixing Wooden Frame for door of size given below using RCC, out of section	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		
4 4.1 4.2 4.3 4.4 4.5 4.6 5	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 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 with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 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 Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring Sand Filling Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Damp proof membrane Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC Total of Subhead 4.0 Door Windows RCC Frame for door	Sqm Sqm Sqm Sqm Cum	576.6 576.6 84.91 60 144.15 24.93		





		1	T	<u>г</u>	
a)	1000 x 2125mm	Nos.	48		
b)	750 x 2125mm	Nos.	72		
5.2	RCC Frame for windows				
	Providing and fixing Wooden Frame for window 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)	600x1200mm	Nos.	96		
b)	600x1085mm	Nos.	48		-
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)	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow				
11)	section of size 59x24 mm and wall thickness 2 mm (\pm 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).				
iii)	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.				
iv)	Bamboo door shutters	1		1	1
a)	900 x 2075mm	Nos.	72		
b)	650 x 2075mm	Nos.	72		
5.4	Window Shutters				
i)	Providing and fixing Wooden panelled shutter for window 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 shutters				
a)	500x1100mm	Nos.	96		
b)	500x985mm	Nos.	48		
5.5	Precast Louvers				
a)	600x 375mm	Nos	96		
	Total of Subhead 5.0				
6	Roofing				
6.1	Precast Arch Panel system	Sqm	717.6		
	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	782		
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.				
6.3	Sunken area filling	Cum	26.83		
	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	185.73		
	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	24.93	-	
	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).		1000		
6.6	Brick tiles with grouting	Sqm	166.2		
	(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		1		



	weight of cement, over a 12mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat.			
6.7	Cement Gola	Rmt	99	
	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	Miscellaneous			
7.1	Making khurras 50x450mm with average minimum thickness of 50mm 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	8	
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, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.	Rmt	85	
	Total of Subhead 7.0			
	Total of "A'			





6(d) ANNEXURE-IV(EWS-CLUSTER UNIT-OPTION-B)

S.No.	essed Earth Blocks Description				Amount (Rs.
A.0	Civil Works				•
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous				
8	Plumbing				
9	Electrical				
	Total				
Note:	1. Estimated Cost is the cost of complete cluster (24 units)				
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal	of rain w	ater to be as	per site s	ituation.
BOQ fo	r Cluster unit EWS Option 'B' for Coastal Region, using Precast Planks & Joist Roof and Masonr	y in Stabi	lised, Hydra	form Cor	npressed Earth
Blocks					
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.
A.0	Civil Works				
1	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 chlorpyrifos /Lindane 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) & 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.				
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.				
1.7	Brick work in foundation	Cum			ļ
	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	Super structure	_			
2.1	Masonry work in super structure	Sqm	1695.22		
	220mm thk. Masonry work using Stabilised, Hydraulically Compressed Earth Blocks in super				
	structure above plinth level as per the guidelines of Hydra form construction manual.	6			
2.2	115 thk. wall	Sqm	62.1		
	115mm thk. Masonry work using Stabilised, Hydraulically Compressed Earth Blocks in super				
• -	structure above plinth level as per the guidelines of Hydra form construction manual.		40.11		
2.3	Brick work in Red Burnt Bricks	Cum	19.14		
	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				
2.4	on the external side of wall where ever specified. Brick Jali	Sqm	5.71		





	compart marter 1.4				
25	cement mortar 1:4	Cum			
2.5	R.C.C. in super structure Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams,	Cum			
	hajjes and counter & Loft slabs etc. in super structure including centering, shuttering				
	complete but excluding cost of reinforcement.				
2.6	Reinforcement in super structure	Kg			
2.0	Providing & fixing Reinforcement for R.C.C. work in lintel, hajjes and counter & Loft slabs in	116			
	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, sill, 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	95.4		
	Total of Subhead 2.0				
3	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2551.11		
3.2	Lime wash	Sqm	3427		
	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	48.74		
3.3	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk.	Эцп	+0.74		
	Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.				
3.4	Coping	Sqm	40.46		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls	oqiii			
	in cement mortar 1:6				
3.5	Dado	Sqm	393.12		
	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 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	Flooring	_			
4.1	IPS Flooring	Sqm	492		
	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				
4.2	complete. IPS Skirting	Sqm	72		
4.2	Providing and laying 18mm thk. cement plaster skirting with cement mortar 1:3 (1 cement: 3	Sqiii	72		
	coarse sand) finished with a floating coat of neat cement.				
4.3	Extra for addition of red oxide of iron (3.5kg per 50 kg of cement) in 40mm thk. IPS flooring	Sam	123	-	1
4.4	Ceramic tile Flooring	Sqm	70.56		1
	Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade	29.11			1
	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	21.06		
	Supplying and filling in plinth with sand under floors including watering, ramming,				
	consolidating, and dressing complete.				
4.6	Damp proof membrane	Sqm	140.4		
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC				
	Total of Subhead 4.0				
5	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing Wooden 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)	1000 x 2125mm	Nos.	48		
b)	750 x 2125mm	Nos.	72		
5.2	RCC Frame for windows	1103.	,,,		1
	Providing and fixing Wooden Frame for window of size given below using RCC, out of section				1
L		1	1	1	1





6(d) ANNEXURE-IV(EWS-CLUSTER UNIT-OPTION-B)

Build offers. Note: Participation a) 100011280mm Note: 2.4 Image: Construction of the second offers. a) 100011280mm Note: 2.4 Image: Construction of the second offers. b) 100011280mm Note: 2.4 Image: Construction of the second offers. c) 100011280mm Note: 1.6 Image: Construction of the second offers. c) 100011280mm Note: 1.6 Image: Construction of the second offers. c) Most Bits for the second offers. Image: Construction of the second offers. Image: Construction of the second offers. 10 Most Bits for the second offers. Image: Construction of the second of the seco	-		1		1	
a) 100041200mm Nos. 24 b) 6004.085mm Nos. 24 c) 6004.085mm Nos. 48 Providing and faing door shutter of size given below of any of following material as per approval project in charge/ architect. (Note: Hardware not included in the item, to be as per selection) Image: Comparison of the selection of a selection of the selecti		100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour				
b) 600-020mm Mos. 24 Mos. 5.0 Door Shutters Mos. 48 Mos. 7 Additional of third good shutter of sizes given below of any of following material is per approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per selection) Mos. 48 8 Wooden panelled door shutter using local wood as per approval. Jarm this, particle board / Mos. Mos. Mos. 24 Mitch factory made PVC door shutters made of styles and rais of a uPVC hollow section of size 592.42 mm and wall hickness 2 mm (s. 0.2 mm) with inbuilt edging on both dises. Complete as per mainternet hick 15 marked fact hand door shutters. Mos. 48 10 W.C. and bathroom door shutter. Mos. 48 Mos. 11 Bood Stree 592.42 mm and wall hickness 2 mm (s. 0.2 mm) with inbuilt edging on both dises of commercial 3 pt yeenemic grants or cross banks and face venees on both faces of stree 592.520 (Part I) decommercial 3 pt yeenemic grants or cross banks and face venees on both faces of stree 592.54 Mos. 48 Mos. 10 most faces 592.500 multers Providing and fining When manel hant of approved colur all complete. (Note: Hardware not included in the tem, to be as per selection) Providing and fining When the market face winders on the class for gt selection and exel to be addition of approved colur all complete. (Note: Hardware not included in the tem, to be as per selection) <	-)	· · ·	Nee	24		
c) 600.0185mm Nos. 48 5.2 Door Shutters 90 approvaling and himp door shutter of sizes given below of any of following material as per approval by orject in charge architect. (Note: Hardware not included in the item, to be as per selection) 90 Wooden paneled door shutter using local wood as per approval, 12mm hit, particle baard / 10 10 MS. jaila as per requirement of panel including finishing with enamel paint of approved colour all complete. 2 Arm Thick factory made PVC door shutters small of sites and rails of a uVC hollow 90 iii) section of size 59.24 man dwall hickess 2 mm (± 0.2 mm) with hoult edging on both sides. Complete saper manufacturer's specification and direction of Engineer in-charge. (For WC. can bathroom door shutter). Providing and faing 35mm thi. IS marked flush door shutters conforming to IS: 2202 (Part I) iii) decontive type, cor of block board construction with faine of 112 kiss hard wood as Pot faces of shutters. iv) Bamboo door shutters iii) 90 (2025mm iii) per approved. Including providing & faing 5mm thit. Clear float glass of approved make. Including providing & faing 5mm thit. Clear float glass of approved make. Including providing & faing 5mm thit. Clear float glass of approved make. Including providing & faing 5mm thit, Sing et approved color all complete. Including providing & faing 5mm thit, Sing et approved color all complete. Including providing & faing 5mm thit, Sing et approved color all complete. Including providing & faing 5mm thit, Sing et approved color all complete. Including providing & faing 5mm thi					1	
5.3 Door Shutters Image: Construction of a structure of stores 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) Image: Construction of the item of						
Providing and fixing door shutter of stree given below of any of following material as per approved by project in charger architect. (Note: Hardware not included in the item, to be as per selection) Image: Complete and the item is the item, to be as per selection of the item is the item is the item, to be as per approved. J2mm this, particle board / Mode and and wall thickess arm (to 2 mm) with incluit edging on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and butthrow door shutter). IP Providing and fixing 35mm thk. ISI marked flush door shutters conforming to 15: 2020 (Part I) decorative type, core of block board construction with fixed TSI calss hard wood and well matched commercial 3 phy veneering with vertical grains or cross bands and face veneers on both faces of shutters. Image: Complete and			NOS.	48		
approval by project in charge/ architect. (Note: Hardware not included in the item, to be as per spectron) wooden panelled door shutter using local wood as per approval. 12mm this, particle board / all complete. Image: specific spectron of a specific spectron of approved colour all complete. Image: specific spectron of approved colour all complete. Image: specific spec	5.3					
per selection Image: solution of the selection of panel including finishing with enamel paint of approved colour all complete. 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow selection of size 59x2 mm and wall thickness zmm (± 0.2 mm) with inbuilt edging no both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and Subtrom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and Subtrom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and Subtrom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and Subtrom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and Subtrom door shutters) Image: specification and direction of Engineer-in-charge. (For W.C. and Subtrom door shutters) Image: specification and face veneers on both face of Subtrom Subtrom door shutters on specification and face veneers on both face of Subtrom Sub						
Wooden panelled door shutter varie local wood as per approval, 12mm this, particle baard / al complete. Image: second secon						
i) M.S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete. Image: Complete as per manufacturer's specification and direction of Engineer-in-charge. (for W.C. and bathroom door shutter's conforming to IS: 2202 (Part 1) decorative type, core of block board construction with findule degine on both faces of shutters. Image: Complete as per manufacturer's specification and direction of Engineer-in-charge. (for W.C. and bathroom door shutter). iii) Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS: 2202 (Part 1) decorative type, core of block board construction with findure of 1SL class hard wood and well water for window of given size using local wood as per partonal, including providing & fitting ism thk. Clast float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the fitting wooden panelled shutter for window of given size using local wood as per per partoval. Including providing & fitting With reamel paint of approved colour all complete. (Note: Hardware not included in the fitting wooden panelled shutter for window of given size using local wood as per selection) Image: Providing and fitting Wooden panelled shutter for window of given size using local wood as per selection Image: Providing a fitting Wooden panelled shutter for window of given size using local wood as per selection Image: Providing a fitting Wooden panelled shutter for window of given size using local wood as per selection Image: Providing a fitting Wooden panelled shutter for window of given size using local wood as per selection Image: Providing a fitting Wooden panelled shutter for window of given size using local wood as per selection Image: Providing a fitting Wooden panelled shutte						
all complete. Image: Complete as per match WC door shutters made of styles and rails of a uPVC hollow section of size 5924 mm and wall thickness 2 mm (± 0.2 mm) with inbull edging on both sides. Complete as per manufacturer's predictation and direction of taging on both section of size 5924 mm and wall thickness 2 mm (± 0.2 mm) with inbull edging on both section more shutter). IP oroiding and fining 3500 were energy with vertical grains or cross bands and face veneers on both faces of shutters. Image: Complete as per match were specification and direction of taging and wall method for shutters. IP ambde door shutters. Image: Complete as per match were specification and direction of size 1202 (Part II) decorative type, core of block board construction with fame of 1st class hard wood and well method for shutters. IP ambde door shutters. Image: Complete as per match were specification and face veneers on both faces of shutters. IP approval, including providing & fining 5mm thk. clear float glass of approved make, finishing with enamel paint of approved colour all complete. (Note: Hardware not included in the term, to be as per selection) Image: Complete as per method as per selection) IP approval, including providing & fining M.S. wire gauge of awa, with of aperture 1.4 mm with wire of all o.5 3mm, finishing M.S. wire gauge of awa. With of aperture 1.4 mm with wire of all o.5 3mm, finishing M.S. wire gauge of awa. Woth of aperture 1.4 mm with wire of all o.5 3mm, finishing M.S. wire gauge of awa. Woth of aperture 1.4 mm with wire of all o.5 3mm, finishing M.S. wire gauge of awa. Woth of aperture 1.4 mm with wire of all o.5 3mm, finishing M.S. wire gauge of awa. Woth of aperture 1.4 mm with wire of all o.5 3mm, finishing M.S. wire gauge of awa	i)					
24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 592.4 mm advall thickness 2 mm (± 0.2 mm) with inbuilt eding on both sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. [For WC.can duathroom door shutter]. IIII Providing and fining 25mm thic ISI marked flush door shutters conforming to 5: 2202 (Part 1) decorative type, core of block bard construction with finame of 151 class hardwood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. Nos. 48 a) 900 x 2075mm Nos. 48	''					
II) section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbulk edging on both sizes complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter). III) Brooking and fung 32 my encering with vertical grains or cross bands and face veneers on both faces of shutters. IIII) III) Bathboo door shutters. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
10 sides. Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter). Image: Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter). Image: Complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and W.C.						
WC. and bathroom door shutter). Image: Control of Subsects of Subsects of Subsects on Subsec	ii)					
Providing and fixing 35mm the. ISI marked flush door shutters conforming to 5: 2202 (Part I) matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. Image: Conference of						
III) decorative type, core of block board construction with frame of 1st class hard wood and well both faces of shutters. Image of the type of the type of the type of the type of ty						
IIII) matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical 3 ply vene drains of grains or cross bands and face veneers on 900 x 2075mm Image: commercial 3 ply veneering with vertical 3 ply veneering vertical 3 ply veneeris veneeris veneering vertical 3 ply veneering vertical						
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iv) Bamboo door shutters Nos. 48 a) 900 x 2075mm Nos. 48 b) 650 x 2075mm Nos. 72 5.4 Window Shutters Nos. 72 Providing and fixing Wooden panelled shutter for window of given size using local wood as per approval, including providing & fixing 5mm thk. clear float glass of approved make, finisking with enamel paint of approved colour all complete. (Note: Hardware not included in the item, to be as per selection) 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 aw, 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) Imper approval, including providing & fixing M.S. wire gauge of aw, width of aperture 1.4mm with ware not included in the item, to be as per selection) III) Bamboo shutter Nos. 48 b) 500x100mm Nos. 48 c) 500x435mm Nos. 48 c) 500x450mm Nos. 24 d) 600x450mm Nos. 24 f Total of Subhead 5.0 Supre 650.4 Providing and Laying precast RCC planks and joists system for roof slab and beams as per related training and including providing &						
a) 900.2075mm Nos. 48 b) 650 x 2075mm Nos. 72 c) Window Shutters Nos. 72 providing and fixing Wooden panelled shutter for window of given size using local wood as Nos. 72 m Providing and fixing Wooden panelled shutter for window of given size using local wood as Nos. 72 providing and fixing Wooden panelled shutter for window of given size using local wood as Nos. 72 providing and fixing Wooden panelled shutter for window of given size using local wood as Nos. 72 providing and fixing Wooden panelled shutter for window of given size using local wood as Nos. 72 mer approval. including providing & fixing M.S. wire gauge of avg. width of aperture LAmm Nos. 48 a) 450x1100mm Nos. 48 b) 500x1100mm Nos. 24 c) 50x858mm Nos. 24 c) 50x450mm Nos 24 b) 600x450mm Nos 24 c) Forat of Subhead 5.0 Nos 48 <t< td=""><td>iv)</td><td></td><td> </td><td>ļ</td><td> </td><td></td></t<>	iv)			ļ		
b) 650 × 2075mm Nos. 72 5.4 Window Shutters Nos. 72 9. Arrowing and fixing Wooden panelled shutter for window of given size using local wood as per approval, including providing & fixing 5m thk. clear float glass of approved make, fixing 5m thk. clear float glass of approved make, fixing 100 moden 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 shutter Nos. 48 a) 450x1100mm Nos. 48 b) 500x4100mm Nos. 48 c) 500x985mm Nos. 24 c) 500x450mm Nos. 24 i) 1000x450mm Nos. 24 i) 600x450mm Nos 24 i) 600x450mm Nos 24 iiiiii (1) RCC Plank and Joist system Sqm 650.4 Providing and laying precast RCC planks and joist system for roof slab and beams as per related training and including providing & shutering complete, excluding the cost of reinforcement as specified in structural drawings, centering & shuttering complete, excluding th			Nos	48		
5.4 Window Shutters Image: Control of the second seco						
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ii) 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) Image: Complex Co						
u y 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) Not. a) 450x1100mm Nos. a) 450x1100mm Nos. b) 500x0100mm Nos. c) 500x985mm Nos. a) 1000x 450mm Nos b) 600x 450mm Nos c) 70x0430mm Nos c) 600x 450mm Nos c) 70x0430mm Nos c) 600x 450mm Sogm c) 650.4 Color 1000x 450mm c) 70x10ing 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. c) Celling plaster Sqm 876						
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b) 500x1100mm Nos. 24 c) 500x985mm Nos. 48 3.5 Precast Louvers - a) 1000x 450mm Nos 24 b) 600x 450mm Nos 24 Total of Subhead 5.0 - - 6.1 RCC Plank and Joist system Sqm 650.4 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. Sqm 876 6.2 Ceiling plaster Sqm 876 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. Cum 37.91 6.4 Hot Bitumen 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. Cum 21.69 6.5 Mud phuska Cum 21.69 Froviding and laying 100mm thic	-		Nos	48		
c) 500x985mm Nos. 48 5.5 Precast Louvers Nos. 48 a) 1000x 450mm Nos 24 b) 600x 450mm Nos 24 Cotal of Subhead 5.0 Nos 24 6 Roofing Sqm 650.4 7 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. Sqm 876 6.2 Ceiling plaster Sqm 876 9 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. Cum 37.91 6.4 Hot Bitumen layer Sqm 177.92 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. Cum 21.69 6.5 Mud phuska Cum 21.69 Providing and laying 10						
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(Providing) and laying FPS Brick tiles of class designation 75 over roof grouted with cement	6.6		Sqm	159.06	1	
					1	



	weight of cement, over a 12mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat.			
6.7	Cement Gola	Rmt	124.3	
	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	Miscellaneous			
7.1	Making khurras 450x450mm with average minimum thickness of 50mm 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	8	
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, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.	Rmt	85	
	Total of Subhead 7.0			
	Total of "A'			





	Summary of BOQ for LIG'A' Individual unit Option 'A' for Coastal Region, using Precast Arch Panel & Micro Concrete Tiles Roof and Masonry work in					
-	ed Compressed Earth Hydra form Blocks					
S.No.	Description				Amount (Rs.)	
A.0	Civil Works					
1 2	Foundation Super structure					
3	Wall finishes					
4	Flooring					
5	Door & Windows					
6	Roofing					
7	Miscellaneous Works					
8	Plumbing					
9	Electrical					
	Total					
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal of	of rain wa	ater to be as	per site si	tuation.	
BOQ fo	r LIG'A' Individual unit Option 'A' for Coastal Region, using Precast Arch Panel & Micro Concrete	Tiles Roo	of and Maso	nry work i	in Stabilised	
Compre	essed Earth Hydra form Blocks					
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)	
A.0	Civil Works					
1	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 chlorpyrifos /Lindane E.C. 20% with 1% concentration	Cum				
1.3	Back filling of earth Filling available excavated earth (Excluding rock) in trenches, plinth, sides of foundation etc. in	Cum				
	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	8.79			
	Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1 cement :2	Jan	0.75			
	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	Super structure					
2.1	Masonry work in super structure	Sqm	75.31			
	220mm thk. Masonry work using Stabilised, Hydraulically Compressed Earth Blocks in super					
	structure above plinth level as per the guidelines of Hydra form construction manual.	6.	6.00			
2.2	115 thk. wall	Sqm	6.38			
	115mm thk. Masonry work using Stabilised, Hydraulically Compressed Earth Blocks in super					
2.3	structure above plinth level as per the guidelines of Hydra form construction manual. Brick work in Parapet wall	Cum	1.79			
2.3	Dick work in raiapet waii	Cum	1./9			



6(e) ANNEXURE-V(LIG A-INDIVIDUAL UNIT-OPTION-A)

r	Brick work with Ely ach bricks (EALC bricks) conforming to start 141 in the structure of the	1			1
	Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above plinth level in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)				
2.4	Red Brick Bands	Cum	1.79	1	
	Brick work in FPS bricks of class designation 75 in super structure above plinth level in desired	cum	1.75		
	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.				
2.5	Red Brick Jali	Sqm	0.86		
	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, hajjes				
	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, hajjes 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, sill, 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	5.52		
	Total of Subhead 2.0	cum	5.52		
3	Wall finishes			<u> </u>	
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	99.9	1	
3.2	Lime wash	Sqm	99.9	ł	
5.2	Providing and applying three or more coats of white wash with lime on wall and ceiling to give	Jqm	55.5		
	an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL				
	adhesive etc. complete.				
3.3	Stone Counters	Sqm	2		
	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	7.23		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in				
	cement mortar 1:6				
3.5	Dado	Sqm	18.99		
	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			<u> </u>	
4	Flooring	6	20.0		
4.1	Terrazzo Tile Flooring	Sqm	29.8		
	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	3.19		
7.4	Providing & fixing 20mm thk. burnt clay paving tile flooring on 20mm thick bed of cement	5411	5.15		
	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	4.2	1	
_	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)				
4.4	Ceramic tile Flooring	Sqm	3.2		
[Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade			Γ	
	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	4.95		





6(e) ANNEXURE-V(LIG A-INDIVIDUAL UNIT-OPTION-A)

	Supplying and filling in plinth with sand under floors including watering, ramming,	1			
	consolidating, and dressing complete.				
4.6	Damp proof membrane	Sqm	33		
4.0	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC	Juli	33		
	Total of Subhead 4.0				
5	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing Wooden 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)	1000 x 2125mm	Nos.	2		
b)	750 x 2125mm	Nos.	3		
5.2	RCC Frame for windows				
	Providing and fixing Wooden Frame for window 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)	1000x1200mm	Nos.	1		
b)	600x1200mm	Nos.	5		
b)	600x1085mm	Nos.	2		
5.3	Door Shutters			ļ	
	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				
<u> </u>	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.				
	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 (\pm 0.2 mm) with inbuilt edging on both sides.				
ii)	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				
iii)	matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on				
	both faces of shutters.				
iv)	Bamboo door shutters				
a)	900 x 2075mm	Nos.	2		
b)	650x 2075mm	Nos.	3		
5.4	Window Shutters				
	Providing and fixing Wooden panelled shutter for window of given size using local wood as per				
i)	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)				
	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				
ii)	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 shutters				
a)	450x1100mm	Nos.	2		
b)	500x1100mm	Nos.	5		
b)	500x985mm	Nos.	2		
5.5	Precast Louvers	ļ			
a)	600x 355mm	Nos	6		
b)	750x 355mm	Nos	1		
	Total of Subhead 5.0				
6	Roofing	C.c		+	
6.1	Precast Arch Panel system	Sqm	44.5		
	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.				
6.3	Ceiling plaster	Sqm	-		
0.5	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.	3411		1	
6.4	Hot Bitumen layer	Sqm	42.32	1	
	Providing layer of residual type petroleum bitumen of penetration 80/100 of approved quality	2.4.00			
l		·			1



6(e) ANNEXURE-V(LIG A-INDIVIDUAL UNIT-OPTION-A)

	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	5.75	
	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	Brick tiles with grouting	Sqm	38.3	
	(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 : 3 fine sand) and finished neat.			
6.7	Cement Gola	Rmt	26.8	
	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	Miscellaneous			
	Making khurras 450x450mm with average minimum thickness of 50mm 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	
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, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.	Rmt	6	
7.3	M.S. Grill	Sqm	5.84	
	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	2	
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with cement mortar 1:4.			
	Total of Subhead 7.0			
	Total of "A'			



	rry of BOQ for LIG'A' Individual unit Option 'B' for Coastal Region, using Precast Planks - Joists &	k Filler sla	b and Brick v	work in Ra	at trap bond
	ed bricks				
S.No.	Description				Amount (Rs.)
A.0	Civil Works				
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous Works				
8	Plumbing				
9	Electrical				
	Total				
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal	of rain wa	ater to be as	per site si	tuation.
BOQ fo bricks	r LIG'A' Individual unit Option 'B' for Coastal Region, using Precast Planks - Joists & Filler slab a	nd Brick v	vork in Rat ti	rap bond	using Red
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
S.No. Item Description Unit Quantity Rate A A.0 Civil Works					
1	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 chlorpyrifos /Lindane 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				
1.4	watering, lead up to 50m. and lift up to 1.5m.	Course	0.14		
1.4	D.P.C. Providing and laying damp proof course 40 mm thick with cement concrete 1:2:4 (1 cement	Sqm	9.14		
	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			
	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			
bricks S.No. A.0 1 1.1 1.1 1.1 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.4 1.4 1.5 1.5 1.5 1.6 1.6	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified, including	Ŭ			
	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				
	Super structure				
2.1	Brick work in super structure	Cum	23.51		
	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.				
2.2	115 thk. Brick wall	Sqm	10.72		
	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.	1			



	bars at every third course.				
2.3	Brick work in Parapet wall	Cum	3.58		
	Brick work in FPS bricks of class designation 125 in super structure above plinth level in	20.11	5.00		ł
	English bond in cement mortar 1:6 (1 cement : 6 coarse sand)				
2.4	R.C.C. in super structure	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete in Filler slab for				
	roof, lintel beams, hajjes and counter & Loft slabs etc. in super structure including centering,				
	shuttering complete but excluding cost of reinforcement.				
2.5	Reinforcement in super structure	Kg	3.4		
	Providing & fixing Reinforcement for R.C.C. work in Filler slab for roof, lintel, hajjes and				
	counter & Loft slabs in super structure as specified, including straightening, cutting, bending,				
	placing in position and binding all complete.				
2.6	Plain cement concrete				
	Providing and laying plain cement concrete of specified grade as bed concrete under floor,				
	roof slab, plinth protection, sill, 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	6.95		
	Total of Subhead 2.0				+
3	Wall finishes	Ca ::	120 70		
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	129.76		
3.2	Lime wash	Sqm	146.16		
	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	2.3		
5.5	Providing and laying 20mm thk. stone slabs on kitchen counters laid on 20mm thk. Cement	3411	2.3		
	mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.				
3.4	Coping	Sqm	6.18		1
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls				
	in cement mortar 1:6				
3.5	Dado	Sqm	23.01		
	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	Flooring		2.5		
4.1	Terrazzo Tile Flooring	Sqm	36		
	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		
	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	3.07		
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to	İ			
	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	3.75		
	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				-
4.5	Sand Filling	Cum	6.75		-
	Supplying and filling in plinth with sand under floors including watering, ramming,				
4.6	consolidating, and dressing complete. Damp proof membrane		45		
4.0		Sqm	45		
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC	l		l	I



	Total of Subhead 4.0				
5	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing Wooden 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)	1000 x 2125mm	Nos.	2		
b)	750 x 2125mm	Nos.	3		
5.2	RCC Frame for windows				
	Providing and fixing Wooden Frame for window 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)	1000x1200mm	Nos.	1		
b)	600x1200mm	Nos.	5		
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)				
	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board /				
i)	M.S. jali as per requirement of panel including finishing with enamel paint of approved colour				
	all complete.				
	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				
ii)	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				
iii)	matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on				
	both faces of shutters.				
iv)	Bamboo door shutters				
a)	900 x 2075mm	Nos.	2		
b)	650 x 2075mm	Nos.	3		
5.4	Window Shutters				
	Providing and fixing Wooden panelled shutter for window of given size using local wood as				
i)	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)				
	Providing and fixing Wooden panelled shutter for window of given size using local wood as				
ii)	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 shutters 450x1100mm	Nec			
a) b)	450x1100mm 500x1100mm	Nos. Nos.	2		
5.5	Precast Louvers	1105.	J		
a)	600x 400mm	Nos	5		1
a) b)	750x400mm	Nos	1	<u> </u>	1
57	Total of Subhead 5.0	1103		1	1
6	Roofing			1	
6.1	RCC Plank and Joist system	Sqm	22.4		1
	Providing and Laying precast RCC planks and joists system for roof slab and beams as per			1	1
	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	Filler material for Filler slab	Sqm	20.3		
	Providing & laying as per instruction, stabilised mud blocks 50mm thk. during casting of Filler				
	slab.				
6.3	Ceiling plaster	Sqm	16.4		
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.				
6.4	Hot Bitumen layer	Sqm	29.3		
	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	3.9	
	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	Brick tiles with grouting	Sqm	26	
	(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 : 3 fine sand) and			
	finished neat.			
6.7	Cement Gola	Rmt	26	
	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	Miscellaneous			
	Making khurras 450x450mm with average minimum thickness of 50mm cement concrete			
7.1	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat	Nos	2	
	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			
7.2	pressure of 4.0kg/sqcm. Including all fittings bends, sockets, elbow, tees, clamps, Y - Junction	Rmt	11.4	
	with cover (for collecting rainwater) including testing of joints etc. complete.			
7.3	M.S. Grill	Sqm	2.19	
	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	2	
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with cement			
	mortar 1:4.			
	Total of Subhead 7.0			
	Total of "A'			





6.No.	Description				Amour (Rs
A.0	Civil Works				
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous				
8	Plumbing				
9	Electrical				
	Total				
Note:	1. 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 disposal	of rain wa	iter to be as p	oer site sit	uation.
200 fo	r Cluster unit LIG'A' - Option 'B' for Coastal Region, using Precast Ferro cement Channel Roof an	d Maconr	v in Hydra fo	rm Ely act	hlocks
	Item Description		ĺ		Amou
6.No.		Unit	Quantity	Rate	(R:
A.0	Civil Works				
1	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 chlorpyrifos /Lindane 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) & 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.				
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.				
1.7	Brick work in foundation	Cum			
	Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in foundation & plinth				
	level in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)				
	Total of Subhead 1.1				
2	Super structure				
2.1	Brick work in super structure	Rmt	168.13		
	220mm thk. Masonry work using Hydraulically Compressed Fly ash Blocks in super structure	1			
	above plinth level as per the guidelines of Hydra form construction manual.				
2.2	Brick work in Red Burnt Bricks	Cum	8.25		
	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.				
2.3	115 thk. wall	Rmt	1523.65		



					1
2.4	Brick work in Parapet wall	Cum	5.27		
	Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure above				
	plinth level in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)				
2.5	Brick Jali	Sqm	5.18		
	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 columns, beams,				
	roof slab, lintel beams, hajjes and counter & Loft slabs etc. in super structure including				
	centering, shuttering complete but excluding cost of reinforcement.				
	(Note: quantity does not include quantities of columns, beams & roof slab)				
2.7	Reinforcement in super structure	Kg			
	Providing & fixing Reinforcement for R.C.C. work in columns, beams, roof slab, lintel, hajjes				
	and counter & Loft slabs in super structure as specified, including straightening, cutting,				
	bending, placing in position and binding all complete.				
	(Note: quantity does not include quantities of columns, beams & roof slab)				
2.8	Plain cement concrete				
	Providing and laying plain cement concrete of specified grade as bed concrete under floor,				
	roof slab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at roof to				
	required slope and other locations as called for laid, consolidated and cured etc. complete as				
<u> </u>	per specification and drawing.				<u> </u>
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	15.49	ļ	
	Total of Subhead 2.0				
3	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2328		
3.2	Lime wash	Sqm	2448		
	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.		a		
3.3	Stone Counters	Sqm	32.5	ļ	
	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.				<u> </u>
3.4	Coping	Sqm	22.88		ļ
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls				1
	in cement mortar 1:6		000		
3.5	Dado	Sqm	293.62		
3.5	Dado Providing and laying ceramic glazed tiles of size 200x300mm in dado of uniform thickness,	Sqm	293.62		
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	Sqm	293.62		
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	Sqm	293.62		
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.	Sqm	293.62		
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.	Sqm	293.62		
	DadoProviding 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	Sqm	293.62		
4	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				
	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	Sqm Sqm Sqm	293.62 438.56		
4	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				
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4 4.1	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)	Sqm	438.56		
4	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)				
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4.1	DadoProviding 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 3.0FlooringTerrazzo Tile FlooringProviding 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 SkirtingProviding 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)Ceramic 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 FlooringProviding 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	Sqm Sqm	438.56		
4.1	DadoProviding 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. 	Sqm Sqm	438.56		
4.1	DadoProviding 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. 	Sqm Sqm Sqm	438.56 62.72 43.2		
4.1	DadoProviding 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 3.0FlooringProviding 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 SkirtingProviding and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, in slirting 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)Ceramic tile FlooringProviding 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 	Sqm Sqm	438.56		
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4 4.1 4.2 4.3 4.4	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) 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, 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 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 Providing and laying ceramic glazed tile flooring of size 300x300mm of approved make, shade and pattern a	Sqm Sqm Cum	438.56 62.72 43.2 18.07		
4.1	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) 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 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 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 cuttin	Sqm Sqm Sqm	438.56 62.72 43.2		
4 4.1 4.2 4.3 4.4	DadoProviding 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 3.0FlooringProviding 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 SkirtingProviding 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, 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 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 respectsSand FillingSupplying and filling in plinth with sand under floors including waterin	Sqm Sqm Cum	438.56 62.72 43.2 18.07		



5	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing Wooden 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)	1000 x 2060mm	Nos.	16		
b)	900 x 2060mm	Nos.	48		
b)	750 x 2060mm	Nos.	32		
5.2	RCC Frame for windows				
	Providing and fixing Wooden Frame for window 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)	1000x1130mm	Nos.	32		
b)	600x1015mm	Nos.	64		
5.3	Door Shutters	Nos.			
	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.				
	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.				
ii)	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				
iii)	matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on				
	both faces of shutters.				
iv)	Bamboo door shutters				
a)	900 x 2010mm	Nos.	16		
b)	800 x 2010mm	Nos.	48		
b)	650 x 2010mm	Nos.	32		
5.4	Window Shutters				
	Providing and fixing Wooden panelled shutter for window of given size using local wood as per				
i)	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)	450x1130mm	Nos.	64		
b)	500x915mm	Nos.	64		
	Providing and fixing Wooden panelled shutter for window of given size using local wood as per				
ii)	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 shutter	Net	00		
a)	450x1130mm 500x915mm	Nos.	96		
b)		Nos.	96		
5.5	Precast Louvers	Not	22		
a)	600x 345mm	Nos	32		
b)	1000x345mm	Nos	16	1	
	Total of Subhead 5.0				
<u> </u>	Poofing				1
6	Roofing Procest Force compute Channel system	Sam	600.22		
6 6.1	Precast Ferro cement Channel system	Sqm	600.32		
	Precast Ferro cement Channel system Providing and Laying precast Ferro cement Channels for roof as per related training and	Sqm	600.32		
	Precast Ferro cement Channel system 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	Sqm	600.32		
6.1	Precast Ferro cement Channel system 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.				
	Precast Ferro cement Channel system 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. Concrete Filling in Channels valley	Sqm Cum	600.32 10.71		
6.1	Precast Ferro cement Channel system 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. Concrete Filling in Channels valley Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels				
6.1 6.2	Precast Ferro cement Channel system 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. Concrete Filling in Channels valley Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels including centring & shuttering complete.	Cum	10.71		
6.1	Precast Ferro cement Channel system 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. Concrete Filling in Channels valley Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels including centring & shuttering complete. Ceiling plaster				
6.1 6.2 63	Precast Ferro cement Channel system 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. Concrete Filling in Channels valley Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels including centring & shuttering complete. Ceiling plaster Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.	Cum Sqm	10.71		
6.1 6.2	Precast Ferro cement Channel system 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. Concrete Filling in Channels valley Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels including centring & shuttering complete. Ceiling plaster	Cum	10.71		



	top layer with water proof cement mortar with CICO or equivalent brand.			
6.5	Hot Bitumen layer	Sqm	163.45	
	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	22.58	
	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	150.55	
	(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 : 3 fine sand) and			
	finished neat.			
6.8	Cement Gola	Rmt	94.6	
	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	Miscellaneous			
	Making khurras 450x450mm with average minimum thickness of 50mm cement concrete			
7.1	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of	Nos	10	
	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			
7.2	pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction	Rmt	130	
	with cover (for collecting rainwater) including testing of joints etc. complete.			
	Total of Subhead 7.0			
	Total of "A'			





6(h) **ANNEXURE-VIII**(LIG A-CLUSTER UNIT OPTION-B)

A.0 1 2 3 4 5 6 7 8 9 9 Note:	Civil WorksFoundationSuper structureWall finishesFlooringDoor & WindowsRoofingMiscellaneousPlumbingElectricalTotal1. 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 disposal	of rain w	ater to be as		
2 3 4 5 6 7 8 9	Super structure Wall finishes Flooring Door & Windows Roofing Miscellaneous Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
3 4 5 6 7 8 9	Wall finishes Flooring Door & Windows Roofing Miscellaneous Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
4 5 6 7 8 9	Flooring Door & Windows Roofing Miscellaneous Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
5 6 7 8 9	Door & Windows Roofing Miscellaneous Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
6 7 8 9	Roofing Miscellaneous Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain wa	ater to be as		
7 8 9	Miscellaneous Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
8 9	Plumbing Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain wa	ater to be as		
9	Electrical Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
	Total 1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
Note:	1. Estimated Cost is the cost of complete cluster (16 units)	of rain w	ater to be as		
Note:		of rain w	ater to be as		
	2. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal	of rain w	ater to he ac		
			as	per site sit	uation.
	r LIG'A' in Cluster unit Option 'B' for Coastal Region, using Precast Planks - Joists Roof and Masc essed Earth Bricks	onry in Ra	t trap bond	using Stab	ilized
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works				
1	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 chlorpyrifos /Lindane 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) & 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.				
1.6	Reinforcement up to plinth level	Kg			
	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified, including			İ	
	straightening, cutting, bending, placing in position and binding all complete.				
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).				
T	Total of Subhead 1.0				
2	Super structure				
2.1	Brick work in super structure	Sqm	1232.91		
	230mm thk. Brick work in Stabilised, Hydraulically Compressed Earth Bricks 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	16.3		
	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.				





6(h) **ANNEXURE-VIII**(LIG A-CLUSTER UNIT OPTION-B)

		r	1	, ,	
	115mm thk. Brick work in Stabilised, Hydraulically Compressed Earth Bricks 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.				
2.4	Brick work in Parapet wall	Sqm	142.52		
	Brick work in Stabilised, Hydraulically Compressed Earth Bricks in super structure above plinth				
	level in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)				
2.5	Brick Jali	Sqm	7.96		
	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 columns, beams,				
	roof slab, lintel beams, hajjes 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 columns, beams, roof slab, lintel, hajjes	, , , , , , , , , , , , , , , , , , ,			
	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, sill, 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	16.93		
aj	Total of Subhead 2.0	Cum	10.32	┼ - ┼	
3	Vall finishes			<u> </u>	
		C	2224		
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	2221	┥──┤	
3.2	Lime wash	Sqm	2985		
	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	32.5		
	Providing and laying 20mm thk. 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	28.96		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls				
	in cement mortar 1:6				
3.5	Dado	Sqm	301.39		
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to				
	12mm, Light shade using white cement, fixed on walls, 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)				
	Total of Subhead 3.0				
4	Flooring				
4.1	Terrazzo Tile Flooring	Sqm	544		
4.1	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to	Juli	544		
	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	Sam	Q/ 10	+ +	
4.2		Sqm	84.18		
	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)			┥ ┥	
4.3	Ceramic tile Flooring	Sqm	48		
	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		Cum	22.2		
4.4	pigment to match the shade of tile including cutting, etc. complete in all respects	Cum	22.2		
4.4	pigment to match the shade of tile including cutting, etc. complete in all respects Sand Filling	Cum	22.2		
4.4	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,		22.2		
	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.	Cum Sqm			



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

E	Dear Windows			1	
5 5.1	Door Windows RCC Frame for door				
5.1	Providing and fixing Wooden 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)	1000 x 2125mm	Nos.	48		
b)	750 x 2125mm	Nos.	48		
5.2	RCC Frame for windows				
	Providing and fixing Wooden Frame for window 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)	1000x1200mm	Nos.	32		
b)	450x1200mm	Nos.	16		
c)	450x1085mm	Nos.	32		
d)	600x1085mm	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)				
	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board /				
i)	M.S. jali as per requirement of panel including finishing with enamel paint of approved colour				
	all complete.				
	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow			1	
ii)	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)				
iii)	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				
5.0	both faces of shutters.				
iv)	Bamboo door shutters 900 x 2075mm	Nec	40		
a) b)	650 x 20725mm	Nos. Nos.	48 48		
5)	Providing and fixing Wooden panelled shutter for window of given size using local wood as	1105.	40		
	per approval, including providing & fixing 5mm thk. clear float glass of approved make,				
i)	finishing with enamel paint of approved colour all complete. (Note: Hardware not included in				
	the item, to be as per selection)				
	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				
ii)	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 shutter				
a)	450x1100mm	Nos.	64		
b)	350x1100mm	Nos.	16		
c)	350x985mm	Nos.	32		
d)	500x985mm	Nos.	32		
5.5	Precast Louvers				
a)	450x 375mm	Nos	32		
b)	600x375mm	Nos	48		
c)	750x375mm	Nos	16		
	Total of Subhead 5.0				
6	Roofing				
6.1	RCC Plank and Joist system	Sqm	600.32		
	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.		762.00		
6.2	Ceiling plaster	Sqm	763.88		
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.		40.00	├	
6.3	Sunken area filling	Cum	10.03	<u> </u>	
	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	A grouting the top layer with water proof cement mortar with CICO or equivalent brand. Hot Bitumen layer	Sqm	201.13		
J.+		Juli	201.13	1	



6(h) **ANNEXURE-VIII**(LIG A-CLUSTER UNIT OPTION-B)

-		1		1	
	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	28		
	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	Brick tiles with grouting	Sqm	185		
	(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 : 3 fine sand) and				
	finished neat.				
6.7	Cement Gola	Rmt	107.5		
	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	Miscellaneous				
	Making khurras 450x450mm with average minimum thickness of 50mm cement concrete				
7.1	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat	Nos	10		
	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	1		1	
7.2	pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction	Rmt	130		
	with cover (for collecting rainwater) including testing of joints etc. complete.				
	Total of Subhead 7.0				
	Total of "A'				





	rry of BOQ for LIG'B' Individual unit Option 'A' for Coastal Region, using Precast Planks - Joists & sing Stabilized Compressed Earth Blocks	MCR tile	s Roof and N	lasonry ir	1 Rat trap
S.No.	Description				Amount (Rs.)
A.0	Civil Works				()
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous Works				
8	Plumbing				
9	Electrical				
	Total				
Note:	1. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal	of rain wa	iter to be as	per site si	tuation.
	r LIG'B' Individual unit Option 'A' for Coastal Region, using Precast Planks - Joists & MCR tiles Re	oof and N	lasonry in Ra	at trap bo	nd using
Stabiliz	ed Compressed Earth Blocks				
S.No.	Item Description	Unit	Quantity	Rate	Amount
	Civil Works				(Rs.)
A.0 1	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	Cum			
	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 chlorpyrifos /Lindane 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	13.88		
	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 &				
2)	shuttering complete - All work up to plinth level.	Cum			
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) R.C.C. up to plinth level	Cum			
1.6		Cum		1	
	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			
1./	Providing & fixing Reinforcement for R.C.C. work up to plinth level as specified, including	116			
	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	2011		1	
	1:6 (1 cement: 6 coarse sand).				
	Total of Subhead 1.0				
2	Super structure	1		1	
2.1	Brick work in super structure	Sqm	125.91		
	230mm thk. Brick work in Stabilised, Hydraulically Compressed Earth Blocks in rat trap bond	24.00			
	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	1.65		



6(i) ANNEXURE-IX (LIG B-INDIVIDUAL UNIT-OPTION-A)

pattern in center thorar 1:4 (1 center: 1:4 Coarse sand) including finishing in ruled pointing on the external side of wall where ever specified. sqm 11.82 2.3 Brick work in Stabilised, Hydraulically Compressed Earth Blocks in super structure above plinth level in English hond in centert and rai. 16 (a center 1: 6 (a carse sand) cm cm 2.8 R.C.C. In super structure Cum cm cm 2.8 R.C.C. In super structure Cum cm cm 2.8 R.C.C. In super structure including centering, shuttering complete but excluding cost of reinforcement of R.C.C. work in littel, hajles and counter & Lot slabs in super structure a specified, including straightening, cutting, bending, placing in position and binding all complete. cm cm 2.7 Plain.Centeration and diverse counter of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coping, slabes, kitchen platform etc. screeding at root to required dope and other locations as called for lial, consolidated and cured etc. complete as pla58. cm 10.35 3.4 Voli floated Spm 215.6 5 cm 3.4 Frontiding at any structure aspecified grade as bed concrete as and 1.8 graded stone aggregate 40mm nominal size) Cum 10.35 3.4 Frontiding at any structure aspecified plates adjutatin etc. screeding at complete. Spm						
on the external side of wall where ever specified. spin 28 Brick work in Parapet wall spin 29 Brick work in Parapet wall spin 20 Brick work in Parapet wall spin 20 Brick work in Parapet wall spin 20 Brick work in Parapet wall spin 21 Brick work in Parapet wall Cum 22 Recide a spin spin spin spin spin spin spin spin		Brick work in FPS bricks of class designation 75 in super structure above plinth level in desired				
2.3 Bick work in Parapet value sqm 11.82 image: sqm 11.82 Bick work in Stabilised, Hydraulcally Compressed Earth Block in super structure above plinth level in English bond in cennent mortar 1.6 (1 cenner.1: 6 coarse sand) Cmm image: sqm image: sqm<		pattern in cement mortar 1:4 (1 cement : 4 coarse sand) including finishing in ruled pointing				
2.3 Brick work in Stabilities, Approximated Earth Block in super structure above plinth level in English bound in cement mortar 1.6 (1 cement : 6 coarse sand) Sqm 11.82 2.8 R.C.C. Insuger structure Cum Cum Image: Structure including centering, shuttering complete but excluding cost of reinforced cement concrete in lintel beams, halps and counter & Lot Slabs co. In super structure including centering, shuttering complete but excluding reinforcement in super structure including centering, shuttering complete but excluding and lange flexing relations and binding all complete. Kg Image: Structure including centering, shuttering complete but excluding cont of reinforcement for RLC. work in lintel, halpes and counter & Lot Slabs in super structure as specified, including straightening, cuting, bending, placing in position and binding all complete. Image: Structure as specified, including straightening, cuting, bending, placing in position and binding and langing plain cement concrete of specified grade as bed concrete and reform, required slope and other locations as called for laid, cosolidated and curred etc. complete as per specification and drawing. Image: Structure as specified grade as bed concrete under floor, required slope and other locations as called for laid, cosolidated and curred etc. complete as per specification and drawing. Image: Structure as specified grade as bed concrete under floor, required slope and other locations as called for laid, cosolidated and curred etc. complete as per specified grade as bed concrete under floor, required slope and other locations as called for laid, cosolidated and curred etc. complete as per specified grade as bed concrete under floor, required grade as bed concrete as aper specified grade as bed concrets as applet specified		on the external side of wall where ever specified.				
Birk work is stabilized, Hydraulically Compressed Earth Biocks in super structure above plinth 1 12.5 R.C.C. In super structure Cum Providing & laving in position M.20 grade of reinforced coment concrete in linted beams, hajies and counter & Loft slabs etc. In super structure including centering, shuttering complete but eccluding for all reinforced coment. Kg 2.6 Reinforcement in super structure Kg Kg Providing & fining Reinforcement for R.C.C. work in lintel, hajles and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding and laving plain ceneet concrete of specified grade as bed concrete under floor, roof tals, plinth protections, sill, coping, shelves, kitche platform etc. screeling at tool to required slaps and other locations as called for laid, consolidated and curred etc. complete as gene specification and drawing. Low 10.35 a) 14.63 Corrent J. Goarnes sand 1 & graded stone aggregate 40mm nominal size) Curr 10.35 3.1 Providing and spriving 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 findigo blue and DUL atherits etc. complete as gene to shade including preparation of surfaces, scaffolding, mixing of findigo blue and DUL atherits etc. complete in all reperied and plater no zaming and polying three or more coats of white wash with lime on wall and celling to give an even shade including complete. Sgm 6.02 Providing and spriving thre	2.3		sam	11.82		
Investing Investing Cum Cum 28 R.C.C. In super structure Cum Image: Cum Imag			oqn	11:01		
2.5 R.C.C. in super structure Cum Cum Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, hajies						
Providing & brying in position M-20 grade of reinforced cement concrete in lintel beams, hajiet and counter & Loft slabs to it. is super structure including centering, shuttering complete but excluding cost of reinforcement. 2.6 Reinforcement. Yeg 2.7 Plain comment super structure super structure as specification of the C.C. work in lintel, hajes and counter & Loft slabs in super structure as specification, slil, coping, shelves, lictichen platform etc. Screeding at roof to required slope and structorations as called for liad, consolidated and cure det c. complete as per specification and draving. Image: Specification and draving. 3.1 1.4.8 Lement 1 4 conses and 1.8 graded stone aggregate 40mm nominal size) Cum 10.35 3.1 Providing and priving brain cement concrete of specified or liad, consolidated and cure det c. complete as per specification and draving. Sigm 10.35 3.1 Providing 32 mm thick cement plaster of mix 1.6 (1 cement: 6 coarse sand). Sigm Sigm 3.2 Line wesh Providing and spriving three or more coats of white wash with line on wall and ceiling to give an even shade including perparation of surfaces, scaffolding, mixing of indigo blue and DDL achesive etc. complete. Sigm 3.0 3.4 Counters Sigm 6.02 Providing and spriving Drive claw saving tile, on window sill & parapet walls in cement motrar 1.5 Sigm 6.02 3.4			-			
and counter & Loft slabs etc. in super structure including centering, shuttering complete but excluding a straing Enforcement in super structure Kg 2.6.6 Reinforcement in super structure Kg Providing R king Enforcement for R.C.C. work in lintel, hajles and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and horing all complete. Image: Specified including straightening, cutting, bending, placing in position and binding all complete super specification and drawing. Image: Specified including straightening, cutting, bending, placing in position and binding all and plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and curved etc. complete as per specification and drawing. Image: Specification and drawing. a) 1.448 (Leement: 4 coarse sand 3. Braded stone aggregate 40mm nominal size) Cum 10.35 3.14 Providing 12 mm thick cement plaster of mix 1.6 (1 cement: 6 coarse sand). Sqm 201.65 3.2 Une wash Sqm 3 Sqm 201.65 3.3 Stone Counters Sqm 3 Providing and applying three or more coats of white wash with line on wall and celling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DbL adhesive etc. complete aset. complete. Sqm 3 <td>2.5</td> <td></td> <td>Cum</td> <td></td> <td></td> <td></td>	2.5		Cum			
excluding cost of reinforcement. Kg 2.8 Reinforcement is upper structure Kg 2.8 Providing & hising Reinforcement for R.C.C. work in Intel, hagles and courter & Loft stabs in super structure as specified, including straightening, cutting, bending, placing in position and burding all complete. Image: Courter Structure as specified, including straightening, cutting, bending, placing in position and burding and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. Image: Courter Structure as specified straids and cured etc. complete as per specification and drawing. a) 1:4:18 (1 cement : 4 carse sand : 8 graded stone aggregate 40mm nominal size) Cum 10.35 Totat of Sobbead 2.0 Sam Sam 159.65 3.1 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 DUL athesive etc. complete. Sam 30 3.2 Lime wash Comm thk. coging of burnt clay paying title, on window sill & parapet walls Sam 6.02 a.3.3 Providing and Sing 20mm thk. coging of burnt clay paying title, outling, curing etc. Sam 6.02 3.4 Commet Commet size 200:300mm in dado of uniform thickness, size, shade and pattern as aproved by ArchiteckProjecit Managet and white incentent slury mixe		Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, hajjes				
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Supplying and filling in plinth with sand under floors including watering, ramming, consolidating, and dressing complete. Image: Consolidating and dressing complete.		match the shade of tile including cutting, etc. complete in all respects				
consolidating, and dressing complete.	4.5	Sand Filling	Cum	10.16		
consolidating, and dressing complete.		Supplying and filling in plinth with sand under floors including watering, ramming,				
4.6 Damp proof membrane Sqm 67.7	4.6		Sam	67 7		





ANNEXURE-IX (LIG B-INDIVIDUAL UNIT-OPTION-A)

	Providing & loving 1000 Course polythese dama proof membrane we der flass DCC	1			1
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC			-	
-	Total of Subhead 4.0				
5	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing Wooden 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.				
2)	1000 x 2125mm	Nos.	5		
a) b)	750 x 2125mm	Nos.	2		
5.2	RCC Frame for windows	1105.	2		
5.2	Providing and fixing Wooden Frame for window 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)	1000x1200mm	Nos.	4		
b)	600x1200mm	Nos.	2		
c)	600x1085mm	Nos.	2		
d)	1000x1085mm	Nos.	1		
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)				
	Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board /				
i)	M.S. jali as per requirement of panel including finishing with enamel paint of approved colour				
	all complete.	ļ			
	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section				
ii)	of size 59x24 mm and wall thickness 2 mm (\pm 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)				
iii)	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.				
iv)	Bamboo door shutters				
a)	900 x 2075mm	Nos.	5		
b)	650 x 2075mm	Nos.	2		
5.4	Window Shutters		-		
	Providing and fixing Wooden panelled shutter for window of given size using local wood as per				
	approval, including providing & fixing 5mm thk. clear float glass of approved make, finishing				
i)	with enamel paint of approved colour all complete. (Note: Hardware not included in the item,				
	to be as per selection)				
	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				
ii)	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 shutter				
a)	450x1100mm	Nos.	8		
b)	500x1100mm	Nos.	2		
c)	500x985mm	Nos.	2		
d)	450x985mm	Nos.	2		
5.5	Precast Louvers				
a)	600x 500mm	Nos	4		
b)	1000x500mm	Nos	3	-	
<u> </u>	Total of Subhead 5.0				
6	Roofing	<u> </u>	- /		
6.1	RCC Plank and Joist system	Sqm	54		
	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.				
6.2	Micro Concrete Roofing	Sam	21.0	+	<u> </u>
0.2	Providing prefabricated corrugated MCR tile roofing (pan or roman as approved) and fixing the	Sqm	31.9	+	}
	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/				
		L	l	1	I



ANNEXURE-IX (LIG B-INDIVIDUAL UNIT-OPTION-A)

<u> </u>		<u>г т</u>		, i	
	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	42		
	Providing 10mm thk cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.				
6.4	Hot Bitumen layer	Sqm	51.41		
	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	7.05		
	Providing and laying 100mm thick (avg) 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	Brick tiles with grouting	Sqm	47		
	(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 : 3 fine sand) and				
	finished neat.				
6.7	Cement Gola	Rmt	29.4		
	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	Miscellaneous				
	Making khurras 450x450mm with average minimum thickness of 50mm cement concrete				
7.1	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of	Nos	2		
	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				
7.2	pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction	Rmt	6		
	with cover (for collecting rainwater) including testing of joints etc. complete.				
7.3	M.S. Grill	Sqm	8.84		
	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	2		
	Providing and fixing pre-fabricated Cement Concrete jali of approved pattern with cement				
	mortar 1:4.				
	Total of Subhead 7.0				
	Total of "A'				



6(i)



S.No.	Description				Amount
A.0	Civil Works				(Rs.
1	Foundation				
2	Super structure				
3	Wall finishes				
4	Flooring				
5	Door & Windows				
6	Roofing				
7	Miscellaneous Works				
8	Plumbing				
9	Electrical				
Note:	Total 1. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal of	of rain wa	ater to he as	ner site sit	uation
Note:	1. Run water disposal has been detailed only up to down take run water pipe. Further disposal			per site sit	dation.
BOQ fo	r LIG'B' Individual unit Option 'B' for Coastal Region, using Ferro cement Channel Roof and Solid	Concret	e Blocks Ma	sonry	• · · · •
S.No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
A.0	Civil Works				
1	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				
	 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			
1.2	Supplying, diluting and injecting chemical emulsion for pre-constructional anti termite	Jqm			
	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 chlorpyrifos /Lindane 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	12.14		
	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	İ		
	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			T	
	cement: 6 coarse sand).				
	Total of Subhead 1.0				
2	Super structure		2022.25		
2.1	Solid Concrete Blocks Masonry work in super structure	No.s	2833.33		
	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.				
2.2	Hollow concrete Blocks Jali		4.67		
2.2	Masonry work in Precast Hollow Concrete Blocks with open cavity, Non-load bearing units of		4.07		
	density between 1000-1500 kg/m3, minimum average compressive strength of 1.5 N/mm2.	1	1		



	(150x200x150) in compart mortar 1:4/1 comparts A coarse cand) in parameters			<u> </u>	
2.3	(150x200x150) in cement mortar 1:4 (1 cement: 4 coarse sand) in parapet wall. Hollow concrete Blocks Masonry	sam	4.43	┤──┤	
2.5	Masonry work in Precast Hollow Concrete Blocks (300x200x150), load bearing units with	sqm	4.45		
	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.				
2.5	R.C.C. in super structure	Cum	2.08		
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams, hajjes				
	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, hajjes 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, sill, 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	9		
	Total of Subhead 2.0				
3	Wall finishes				
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	165.47		
3.2	Lime wash	Sqm	165.47		
	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	3.1		
	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.	6	10.01		
3.4	Coping	Sqm	10.01		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls				
2.5	in cement mortar 1:6	Cam	20 50		
3.5	Dado	Sqm	30.59		
	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	Flooring				
4.1	Terrazzo Tile Flooring	Sqm	51		
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to	oq	01		
	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	4.5		
	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				
4.4	Ceramic tile Flooring	Sqm	7.5		
	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				
4.3	Terrazzo Tile Skirting	Sqm	4.63		
	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)				
4.5	Sand Filling	Cum	8.78		
	Supplying and filling in plinth with sand under floors including watering, ramming,				
	consolidating, and dressing complete.				
4.6	Damp proof membrane	Sqm	58.5		
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC				



ANNEXURE-X (LIG B-INDIVIDUAL UNIT-OPTION-B)

	Total of Subhead 4.0			
5	Door Windows			
5.1	RCC Frame for door			
5.1	Providing and fixing Wooden 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)	1000 x 2080mm	Nos.	4	
b)	750 x 2080mm	Nos.	2	
5.2	RCC Frame for windows	1103.		
	Providing and fixing Wooden Frame for window 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)	1000x1100mm	Nos.	4	
b)	600x1100mm	Nos.	2	
b)	600x970mm	Nos.	2	
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) Wooden panelled door shutter using local wood as per approval, 12mm thk. particle board /			
i)	M.S. jali as per requirement of panel including finishing with enamel paint of approved colour all complete.			
ii)	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.			
iii)	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. Bamboo door shutters			
iv)	900 x 2030mm	Nos.	4	
a) b)	650 x 2030mm	Nos.	2	
5.4	Window Shutters	1103.	2	
i)	Providing and fixing Wooden panelled shutter for window 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 shutter			
a)	450x1000mm	Nos.	8	
b)	500x1000mm	Nos.	2	
c)	500x870mm	Nos.	2	
5.5	Precast Louvers			
a)	600x 500mm	Nos	5	
b)	900x500mm	Nos	4	
	Total of Subhead 5.0			
6	Roofing			
6.1	Precast Ferro cement Channel system	Sqm	62	
	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, centring & shuttering complete, excluding the cost of reinforcement.			
6.2	Concrete Filling in Channels valley Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels	Cum	121.5	
6.3	including centring & shuttering complete. Ceiling plaster	Sqm	Rate only	
	Providing 10 mm thick cement plaster of mix 1:4 (1 cement: 4 coarse sand) in ceiling.			
6.4	Hot Bitumen layer	Sqm	60.99	
	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			



6(j) ANNEXURE-X (LIG B-INDIVIDUAL UNIT-OPTION-B)

	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	41.85	
	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	Brick tiles with grouting	Sqm	55.8	
	(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 : 3 fine sand) and finished neat.			
6.7	Cement Gola	Rmt	34.6	
	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	Miscellaneous			
7.1	Making khurras 450x450mm with average minimum thickness of 50mm 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	
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, clamps, Y - Junction with cover (for collecting rainwater) including testing of joints etc. complete.	Rmt	6.6	
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. Total of Subhead 7.0			
	Total of "A'			





S.No.	Description				Amount (Rs.)			
A.0	Civil Works							
1	Foundation							
2	Super structure							
3	Wall finishes							
4	Flooring							
5	Door & Windows							
6	Roofing							
7	Miscellaneous							
8	Plumbing							
9	Electrical							
	Total							
Note:	1. 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 disposal	of rain wa	ater to be as p	per site sit	uation.			
	r Cluster unit LIG'B' - Option 'A' for Coastal Region, using Precast Filler slab Roof and Masonry in bination	Rat trap	bond using	Fly ash &	Red Bricks			
C N1	Item Description	11.11	0		Amount			
S.No.		Unit	Quantity	Rate	(Rs.)			
A.0	Civil Works	1						
1	Foundation	1						
1.1	Earth work in excavation	Cum						
	Earth work in foundation trenches, column pits, drains etc. (not exceeding 1.5m in width or	cam						
	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	Sam						
1.2	Supplying, diluting and injecting chemical emulsion for pre-constructional anti termite	Sqm	-					
	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 chlorpyrifos /Lindane 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) & 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.							
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.							
1.7	Brick work in foundation	Cum						
	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in rat trap	1	İ	1				
	bond in cement mortar 1:6 (1 cement: 6 coarse sand) in foundation and plinth.							
	Total of Subhead 1.0	1						
2	Super structure	1						
2.1	Brick work in Fly ash bricks	Cum	448.85					
2.1	230mm thk. Brick work with Fly ash bricks (FALG bricks) conforming to class 'A' in rat trap	cum		<u> </u>				
	bond in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above plinth level							
	i sona micement mortar 1.4 (1 cement - 4 coarse sanu) in super structure duove plinti level	1						
2.2	including finishing in ruled pointing on the external side of wall.	C	20 5					
2.2	including finishing in ruled pointing on the external side of wall. Brick work in Red Burnt Bricks	Cum	29.5					
2.2	including finishing in ruled pointing on the external side of wall.	Cum	29.5					





6(k) ANNEXURE-XI (LIG B-CLUSTER UNIT-OPTION-A)

above pilnth level in cement mortar 15, including providing & placing in position 2 nos. 6mm Sqm 11.8 2.0 Brick Jail work in desired pattern in parspet wall with PPS bricks of class designation 75 in cement mortar 13.4 Sqm 11.8 2.8 R.C.C. In super structure Cum Enclosed in the super structure including cement concrete in columns, beams, including shift beams, high search columns, beams, including subtry inter comparison of the subtry structure including cementing, shuttering complete but accluding cost of reinforcement. Kell 2.8 Rec.C. In super structure Cum Enclosed in the subtry structure including cost of reinforcement. 2.8 Rec.C. In super structure Kell Kell Enclosed in the subtry structure including cost of reinforcement. 2.8 Rec.C. In contrast cost of subtry structure including control in the subtry structure is specified in strugithering, cutting, bending, placing in position and briding and interpolytic subtree pradrom text. screeding at not to subtry structure is specified on add covering. Enclosed in the subtry structure is specified in the subtry structure is specified on add covering. Enclosed in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is specified in the subtry structure is					r	
dia, M.S., burs at every third course. Sqn 11.8 Brick Jail work in desired pattern in parapet wall with PPS bricks of class designation 75 in comment motar 1:3 Sqn 11.8 2.5 R.C.C. In super structure Cum Cum 12.8 Providing & laying in position M-20 grade of reinforced cement concrete in columns, beams, roof slab, lintel beams, hajies and counter & Loft slabs sct. in super structure including centering, including guantities of columns, beams & roof slab) Image: Columns and the structure as specification including patienting, patient guantity does not include quantities of columns, beams & roof slab) Image: Columns and the structure as specification and binding all complete. Image: Columns and the structure as specification and down and the structure as specification so called for cludic, subsidiated and curved etc. complete as per specification and drawing. Image: Columns and the cludic considiated and curved etc. complete as per specification and drawing. Image: Columns and and the cludic considiated and curved etc. complete as per specification and drawing. Image: Columns and the cludic considiated and curved etc. complete as per specification and drawing. Image: Columns and the cludic considiated and curved etc. complete as per specification and the structure of mix 1.6 (1 comment: 6 coarse sand). Sqn 3365.09 Image: Columns and the cludic considiated and curved etc. complete as per specification and drawing. Sqn 656.31 Image: Columns and the columns and the columns and colling to give and the columns and the columns and the columns and the columns and the columns and the		Half brick masonry with Fly ash bricks (FALG bricks) conforming to class 'A' in super structure				
2.4 Brick Jall Sym 11.8 Image: Symmetry and		above plinth level in cement mortar 1:6, including providing & placing in position 2 nos. 6mm				
2.4 Brick Jail Sym 11.8 Image: Sym Sym Sym Sym Sym Sym Sym Sym Sym Sym		dia. M.S. bars at every third course.				
Birls jail work in desired pattern in parapet wall with PPS bricks of class designation 75 in common the intermediate in the second state in super structure including content jail parameters in patterning complete but acculating cost of reinforced comment. Cum 2.5 R.C.C. In super structure Cum Cum Providing 8 laying in position M-20 grade of reinforced comment. Cum Cum [!Note: quantity does not include quantities of columns, beams & roof slab) Kg Cum 2.6 Reinforcement in super structure Kg Cum response tructure as specified, including straightening, cutting, bending, placing in position and binding all complete. Kg Cum 2.7 Fooding and biring plain cement concrete of specified grade as bed concrete under floor, reopiet ad gama of the locations as called for blaid, consolidated and cured etc. complete as ger specification and drawing. Cum 56.03 2.1 Fooding 12 nm thick cement plaster of mix 1.6 (1 cement: 6 coarse sand). Sqm 4593.09 3.1 Mail finishee Sqm Sqm 4593.09 3.2 Line wash Sqm 65.65 Providing and parity plant cement coarset and, including runking and plant bing complete. 3.3 Sone Counters Sqm 65.65 Providing and la	2.4		Sam	11.8		
cement mortar 1:4 Com Image: Structure Com Image: Structure Com Image: Structure			oq	1110		
25. R-C.C. in super structure Cum Cum Providing & hying in position M-20 grade of reinforced cement concrete in cluums, beams, nord sab, linet beams, halps and counter & Loft slabs etc. in super structure including control includie quantities of columns, beams & roof slab) Image: Column Structure 2.6 Reinforcement in super structure Fg 2.7 Reinforcement in super structure Fg 2.8 Reinforcement in super structure Fg 2.9 Flain cement concrete Fg 2.9 Flain cement concrete Spent from structure systemic field, including straightening, cuting, bending, placing in position and binding and hying plain cement concrete of specified grade as bed concrete under floor, nor slab, plinth protection, sill, coging, shaws, Ritchen platform etc. screeding at root for required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. Cum 56.03 3.1 Howding and paying three or more coats of white wash with lime on wall and celling to give an even shade including preparation of surfaces, scrifduling, mixing of indigo blue and DOL at here shade including grade as blaon slitchen counters laid on 20mm thk. Sqm 8438.09 3.3 Coroling and laying plane cement, fixed on walls, jointed with neat cement slury mixed with grade and planing complete. Sqm 84 4.4 Flooring Sqm 84.2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Providing & Laying in position M-20 grade of reinforced cement concrete in columns, beams, nor disk hintel beams, holies and counters, bort slabs etc. in super structure including centering, shuttering complete but excluding cost of reinforcement. Image: Concenter of the			_			
roof stab, lintel beams, haljes and counter & Loft stabs etc. in super structure including Image: Content structure as specified, including cost of reinforcement. (Khtt:::::::::::::::::::::::::::::::::::	2.5		Cum			
centering, shuttering complete but excluding cost of reinforcement.						
Note: Quantity does not include quantities of columns, beams & roof slab) Kg 2.6 Reinforcement in super structure Kg 1.1 Super Structure as specified, including straightening, cutting, beading, placing in position and binding all complete. Image: Structure as specified, including straightening, cutting, beading, placing in position and binding all complete. Image: Structure as specified, including straightening, cutting, beading, placing in position and binding all complete. Image: Structure as specified, including straightening, cutting, beading, placing are on the structure as specified and shab. Image: Structure as specified and shab. Image: Structure as specified. Image: Structure as specified.<		roof slab, lintel beams, hajjes and counter & Loft slabs etc. in super structure including				
2.6 Reinforcement in super structure Kg Providing & fung Reinforcement for R.C.C. work in lintel, hajies and courter & Loft stabs in super structure as specified, include quantities of columns, beams & roof stab) Image: Complete. (Note: quantity does not include quantities of columns, beams & roof stab) Image: Complete. Image: Complete. (Note: quantity does not include quantities of columns, beams & roof stab) Image: Complete. Image: Complete. Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof stab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and curred etc. complete as per specification and drawing. Image: Complete as the stab of the complete as the stab of the complete as the stab of the complete. Sqn 450.3 3.1 Image: Complete. Sqn 350.0 Sqn 4593.09 Image: Complete. 3.3 Stone Counters Sqn 84 Providing and applying three or more coast of white wash with line on wall and ceiling to give an even shade including grader staffolding. mixing of indigo blue and DDL adheeter. complete. Sqn 84 3.3 Stone Counters Sqn 65.65 Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Coernet mortar 1:3 (1 cement day paying tile, on window sill & parapet walls in commet mortar 1:3 (1 cement tile sinc		centering, shuttering complete but excluding cost of reinforcement.				
2.6 Reinforcement in super structure Kg Providing 8 thing Reinforcement for R-CC. work in lintel, hajies and counter & Loft stabs in uper structure as specified, including straightening, cutting, bending, placing in position and binding and laying plain cement concrete of specified grade as bed concrete under floor, roof stab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and curved etc. complete as per specification and drawing. 1 14.8 (Lement 1: docames and 15 graded stone aggregate 40mm nominal size) Cum 56.03 3.1 14.8 (Lement 1: docames and 15 graded stone aggregate 40mm nominal size) Sqm 4593.09 2.1 Total of Subhead 2.0 Sqm 33.65.09 Sqm 3.2 Line wesh Sqm 3655.09 Sqm 3.2 Line wesh Sqm 8493.09 Cum Are complete. Sqm 8493.09 Cum Sqm 3.3 Stone Counters Sqm 84 Providing and saying 20mm thk: Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (Lement 1: docarse sand). Including rubbing and polishing complete. 3.3 Stone Counters Sqm 65.65 Providing and saying 20mm thk: kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:3 (Lement 1: docars	l l	(Note: quantity does not include quantities of columns, beams & roof slab)				
Providing & Tunica Reinforcement for R.C.C. work in Intel, hajles and counter & Loft slabs in super structure as specified, including straightening, cutting, bending, placing in position and binding all complete. INter: quantity does not include quantities of columns, beams & roof slab) Image: Column Columns, Col	2.6		Kø			
super structure as specified, including straightening, cutting, bending, placing in position and binding all complete. Image: Complete as the complete. Image: Complete as the complete as the complete as the complete as the complete. 3.3 Unew wash Sequence as the complete as the complete. Sequence as the complete. Sequence as the complete as the complete. Sequence as the complete as the complete. Sequence as the complete as the complete. Sequence as the complete as the complete as the complete. Sequence as the complete as the complete as the complete. Sequence as the complete as the complete as the complete as the complete as the complete as the complete as the complete as the complete as the complete as th			8			
Ibinding all complete. Image: Second Se						
(Note: quantity does not include quantities of columns, beams & roof slab) Image: Column (Columns) 2.7 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at roof to required slope and other locations as called for laid, consolidated and curved etc. complete as per specification and drawing. Image: Column (Columns) 1 14.81 (Creemert 4 coarses sand : Sgraded stone aggregate 40mm nominal size) Cum 56.03 7 total of Subhead 2.0 Sqm 3365.09 Sqm 3365.09 3.1 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. Sqm 84 3.3 Stone Counters Sqm 65.65 Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Coping Sqm 65.65 3.4 Coping Sqm 65.65 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 122mm, Ught shade using white cement, fixed on walls, jointed with neat cement slurry mixed with precast terrazzo tiles 22mm thick with graded marble chips of size up to 122mm, Ught shade using white cement, iscil on 200m, the at cement slurry mixed with precast terrazzo tiles 22mm thick with graded marble chips o						
2.7 Plain cement concrete Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at root to required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. Cum \$6.03 a) 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum \$6.03 3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sqm 4593.09 3.2 Lime wash Sqm 4593.09 Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Sqm 4593.09 a through a grading applying three or more coats of white wash with lime on wall and celling to give an even shade including ing preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete. Sqm 84 3.3 Stone Counters Sqm 65.65 Providing a flaving 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Cement mortar 1:6 Sqm 65.65 3.5 Dado Sqm 518.72 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, fixed on walls, jointed with neat cement slurry mixed with pignent to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick cement						
Providing and laying plain cement concrete of specified grade as bed concrete under floor, roof slab, plinth protection, sill, 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) 14:8.1 Crement 4. coarse sand: 8 graded stone aggregate 40mm nominal size) Cum 56.03 Total of Subhead 2.0 Sum Sum Sum 3.1 Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand). Sum 3365.09 3.2 Ume wash Sqm 3455.09 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. Sqm 84 3.3 Stone Counters Sqm 65.65 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. Sqm 65.65 3.4 Coping Sqm 65.65 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Ught shade using white cement, fixed on walls, jointed with neat cement siurry mixed with pigment to march the shade of the tiles including rubbing and polishing complete with precast liles on 20mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand)						
roof slab. plinth protection, sill, 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. Total of Subhead 2.0 Total of Subhead 2.0 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. Some counters Some Counters Some Counters Some Counters Some finite common control of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete. Coping Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk. Comment mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete. Coping Providing and laying groma thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6 Som 518.72 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, fixed on walls, jointed with neat cement slurry mixed with precast tiles on 12mm thick cement mortar 1:3 (1 cement 3: a coarse sand) Total of Subhead 3.0 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 precast tiles on 20mm thick cement mortar 1:3 (1 cement 1: a 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 s	2.7	Plain cement concrete				
required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. a) 1.4.8 (1 cernent : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum 56.03 Wall finishes Froviding 12 mm thick cement plaster of mix 1.6 (1 cement: 6 coarse sand). Sqm 3365.09 Providing and applying three or more coats of white wash with line on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete. Stone Counters Stone Counters Sqm 65.65 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. Sqm 65.65 Providing a fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6 Soado Stado Stado Sqm 518.72 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, fixed on walls, 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, jaid 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 coa		Providing and laying plain cement concrete of specified grade as bed concrete under floor,				
required slope and other locations as called for laid, consolidated and cured etc. complete as per specification and drawing. a) 1.4.8 (1 cernent : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) Cum 56.03 Wall finishes Froviding 12 mm thick cement plaster of mix 1.6 (1 cement: 6 coarse sand). Sqm 3365.09 Providing and applying three or more coats of white wash with line on wall and ceiling to give an even shade including preparation of surfaces, scaffolding, mixing of indigo blue and DDL adhesive etc. complete. Stone Counters Stone Counters Sqm 65.65 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. Sqm 65.65 Providing a fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls in cement mortar 1:6 Soado Stado Stado Sqm 518.72 Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to 12mm, Light shade using white cement, fixed on walls, 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, jaid 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 coa		roof slab, plinth protection, sill, coping, shelves, kitchen platform etc. screeding at roof to	1			
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	5	Door Windows				





5.1 RCC Frame for door Image: Control Section Image: Control Section 1000000000000000000000000000000000000					 -
100:050m, with angle or double robuste as required, with holdfasts, finished with enamel paint of approved colour all complete. Nos. 56 a) 1000 z 2050mm Nos. 56 b) 750 z 0250mm Nos. 56 B Providing and faing Wooden frame for window of size given ballow using RCC, out of section all complete. Nos. 48 a) 1000 z 200mm Nos. 16 16 a) 1000 z 200mm Nos. 16 16 a) 1000 z 200mm Nos. 16 16 c) 450 z 200mm Nos. 16 16 c) 450 z 200mm Nos. 16 16 c) 450 z 200mm Nos. 16 16 c) 450 z 200mm Nos. 22 16 d) 600 z 200mm Nos. 22 16 d) 500 z 200mm Nos. 22 16 d) 500 z 200mm Nos. 22 16 d) 500 z 200mm Nos. 22 16 d) 100 z 200mm Nos. 22 16 d) 100 z 200mm Nos. 20 16 d) 100 z 200mm Nos. 20 16	5.1	RCC Frame for door			
paint of approved robur all complete. Not. Sec.		Providing and fixing Wooden Frame for door of size given below using RCC, out of section			
a) 1000 x 2050mm Nos. 96 Image: constraint of the second s		100x50mm, with single or double rebate as required, with holdfasts, finished with enamel			
b) 720 x 2050mm Nos. 48 Image: constraint of the second s		paint of approved colour all complete.			
5.2 RCC Frame for windows Image: Construction of part of the section of approved colour all complete. Image: Construction of part of the section of the sec	a)		Nos.	96	
Providing and fung Wooden Frame for window of steg yeen below using RCC, out of section all complete. Image: Construction of approved colour all complete. 10005000000000000000000000000000000000	b)	750 x 2050mm	Nos.	48	
100x50mm, with double rebate and holdfasts, finished with enamel paint of approved colour all complete. Nos. 48 a) 1000x1200mm Nos. 16 b) 450x1200mm Nos. 16 c) 450x1085mm Nos. 16 c) 600x1200mm Nos. 32 d) 600x1200mm Nos. 32 approxed by project in Charged architect. Note Hardware not included in the item, to be as per selection Nos. d) Moxed magnetide door shutter using local word as per approval. 12mm the, particle board/ Nos. d) Sys24 man and wall trickes 2 mol C2 mm with hold word and well Nos. matched commercial 3 pip veneering with vertical grains or cross bands and frace veneers on both frace of shutters. Nos. hold ding and fining Moxelen panelled shutter for window of given size using local wood as per approved includes in the term, to be as per selection (i) Barmbon door shutters Nos. 48 (ii) Barboo door shutters Nos. 16	5.2				
all complete. No. 448 b) 10000200mm Nos. 16 c) 450h1200mm Nos. 16 c) 450h1200mm Nos. 16 c) 450h1200mm Nos. 12 c) 60bh1055mm Nos. 32 c) 50 Door Shutters Nos. 32 c) box Shutters Nos. 32 c) Mooding and fixing door shutter of sizes given below of any of following material as per selection in the age architect. (Note: Hardware not included in the item, to be as per selection in the age architect. (Note: Hardware not included in the item, to be as per selection in the age architect. (Note: Hardware not included in the item, to be as per selection in the age architect as per anautracture's specification and direction of tagleeerin-tharge. (For W.C. and batters to and and well matched commercial as phy veneering with vertical grains or cross bands and face veneers on both face of shutters. iii) d) decorating and fixing Wooden panelled shutter for window of given size using local wood as per aper selection included in the item, to be as per selection included in the item, to be as per selection included in the item, to be as per selection included in the item, to be as per selection included in the item, to be as per selection included in the item, tore sis das and face venee		Providing and fixing Wooden Frame for window of size given below using RCC, out of section			
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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.	6.3		Cum	36.96	
top layer with water proof cement mortar with CICO or equivalent brand.					
6.4 Hot Bitumen layer Sqm 396.4					
	6.4	Hot Bitumen layer	Sqm	396.4	



6(k) ANNEXURE-XI (LIG B-CLUSTER UNIT-OPTION-A)

	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	55.95	
	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	Brick tiles with grouting	Sqm	373	
	(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 : 3 fine sand) and			
	finished neat.			
6.7	Cement Gola	Rmt	17.16	
	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	Miscellaneous			
	Making khurras 450x450mm with average minimum thickness of 50mm cement concrete			
7.1	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat of	Nos	14	
	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			
7.2	pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction	Rmt	182	
	with cover (for collecting rainwater) including testing of joints etc. complete.			
	Total of Subhead 7.0			
	Total of "A'			





	ry of BOQ for Cluster unit LIG'B' - Option 'B' for Coastal Region, using Precast Ferro cement Ch and floor & Stabilised compressed earth Bricks in rat tap bond for rest of floors	annel Roo	of and Maso	nry in Late	erite blocks		
S.No.	· · ·				Amount		
0	Description						
A.0	Civil Works						
1	Foundation						
2	Super structure						
3	Wall finishes						
4	Flooring						
5	Door & Windows						
6	Roofing						
7	Miscellaneous						
8	Plumbing						
9	Electrical Total						
Note:	1. Estimated Cost is the cost of complete cluster (16 units)						
Note.	 2. Rain water disposal has been detailed only up to down take rain water pipe. Further disposal 	of rain w	ator to bo ac	nor cito ci	tuation		
	2. Nain water disposar has been detailed only up to down take rain water pipe. Further disposar			per site si	tuation.		
BOO fo	r Cluster unit LIG'B' - Option 'B' for Coastal Region, using Precast Ferro cement Channel Roof a	nd Mason	rv in Laterit	hlocks o	n Ground		
	Stabilised compressed earth Bricks in rat tap bond for rest of floors		iny in Eaterne	L DIOCKS O	il Ground		
S.No.	Item Description				Amount		
		Unit	Quantity	Rate	(Rs.)		
A.0	Civil Works						
1	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 chlorpyrifos /Lindane 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						
1.4	(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	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.						
1.7	Masonry work in foundation	Cum					
	Masonry work with Laterite stone blocks of size 390x190x190mm confirming to IS code 3620						
	in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).						
	Total of Subhead 1.0						
2	Super structure						
2.1	Brick work in super structure	Sqm	1341.73				
	230mm thk. Brick work in Stabilised, Hydraulically Compressed Earth Bricks 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	Masonry work with Laterite blocks in super structure	Rmt	137.89				
	Masonry work with Laterite stone blocks of size 390x190x190mm confirming to IS code 362 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.		4				
2.3	Brick work in Red Burnt Bricks	Cum	15.44				
	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	1	1	I			



		1	1		
	on the external side of wall where ever specified.				
2.4	115 thk. wall	Sqm	11.55		
	115mm thk. Brick work in Stabilised, Hydraulically Compressed Earth Bricks in rat trap bond in				
	cement mortar 1:4 (1 cement: 4 coarse sand) in super structure above plinth level.	C	222.00		
2.5	Brick work in Parapet wall	Sqm	233.86		
	Brick work with Stabilised, Hydraulically Compressed Earth Bricks in super structure above				
2.0	plinth level in English bond in cement mortar 1:6 (1 cement : 6 coarse sand)	Course	10.22		
2.6	Brick Jali	Sqm	10.32		
	Brick jali work in desired pattern in parapet wall with FPS bricks of class designation 75 in				
2.7	cement mortar 1:4	Curre			
2.7	R.C.C. in super structure	Cum			
	Providing & laying in position M-20 grade of reinforced cement concrete in lintel beams,				
	hajjes and counter & Loft slabs etc. in super structure including centering, shuttering				
2.0	complete but excluding cost of reinforcement.	K a			
2.8	Reinforcement in super structure	Kg			
	Providing & fixing Reinforcement for R.C.C. work in lintel, hajjes and counter & Loft slabs in				
	super structure as specified, including straightening, cutting, bending, placing in position and				
2.0	binding all complete.				
2.9	Plain cement concrete				
	Providing and laying plain cement concrete of specified grade as bed concrete under floor,				
	roof slab, plinth protection, sill, 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)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm nominal size)	Cum	52.93		
a)	1:4:8 (1 cement :4 coarse sand : 8 graded stone aggregate 40mm hominal size) Total of Subhead 2.0	Cum	52.93		
3	Wall finishes				
		Cam	2762 42		
3.1	Providing 12 mm thick cement plaster of mix 1:6 (1 cement: 6 coarse sand).	Sqm	3762.43		
3.2	Lime wash	Sqm	3922.99		
	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				
2.2	DDL adhesive etc. complete.	Caura	CF C		
3.3	Stone Counters	Sqm	65.6		
	Providing and laying 20mm thk. Kota stone slabs on kitchen counters laid on 20mm thk.				
2.4	Cement mortar 1:3 (1 cement 3 coarse sand). Including rubbing and polishing complete.	Caura	42.45		
3.4	Coping	Sqm	42.45		
	Providing & fixing 20mm thk. coping of burnt clay paving tile, on window sill & parapet walls				
3.5	in cement mortar 1:6 Dado	Cam	495.1		
5.5	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to	Sqm	495.1		
	12mm, Light shade using white cement, fixed on walls, 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)				
	Total of Subhead 3.0				
4	Flooring				
4.1	Terrazzo Tile Flooring	Sqm	872.64	<u>├</u> ──	
1	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to	Jun	072.04	<u>├</u> ──	
	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	105.65		
	Providing and laying precast terrazzo tiles 22mm thick with graded marble chips of size up to		200.00		
	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)				
4.3	Ceramic tile Flooring	Sqm	108.64		
	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	Sand Filling	Cum	36.8		
	Supplying and filling in plinth with sand under floors including watering, ramming,	- Cum	00.0		
	consolidating, and dressing complete.				
4.5	Damp proof membrane	Sqm	245.32		
	Providing & laying 1000 Gauge polythene damp proof membrane under floor PCC	54.11	- 13.32		
	· · · · · · · · · · · · · · · · · · ·				



		1			
	Total of Subhead 4.0				
5	Door Windows				
5.1	RCC Frame for door				
	Providing and fixing Wooden 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)	1000 x 2125mm	Nos.	64		
b)	750 x 2125mm	Nos.	96		
5.2	RCC Frame for windows				
	Providing and fixing Wooden Frame for window 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)	1000x1200mm	Nos.	48		
b)	450x1200mm	Nos.	16		
c)	450x1085mm	Nos.	32		
d)	600x1085mm	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 /				
	M.S. jali as per requirement of panel including finishing with enamel paint of approved colour				
	all complete.				
ii)	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow	1			
	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).				
iii)	Providing and fixing 35mm thk. ISI marked flush door shutters conforming to IS : 2202 (Part I)				
, 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.				
iv)	Bamboo door shutters				
a)	900 x 2075mm	Nos.	64		
b)	650 x 2075mm	Nos.	96		
5.4	Window Shutters				
i)	Providing and fixing Wooden panelled shutter for window 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 shutter	İ	İ		
a)	450x1100mm	Nos.	96		
b)	350x1100mm	Nos.	16		
c)	350x985mm	Nos.	32		
d)	500x985mm	Nos.	32		
5.5	Precast Louvers	1103.	52		
a)	450x 375mm	Nos	32		
,	430x 375mm			┝──┤	
b)		Nos	48		
c)	750x375mm	Nos	16		
	Total of Subhead 5.0				
6	Roofing	<u> </u>	1020.20	├	
6.1	Precast Ferro cement Channel system	Sqm	1029.28		
	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.	L			
6.2	Concrete Filling in Channels valley	Cum	25.5		
	Providing & laying in position cement concrete (1:2:4) in valley of Ferro cement Channels				
	including centring & shuttering complete.	1	1		
6.3	Ceiling plaster	Sqm	160.56		
6.3 6.4		Sqm Cum	160.56 22.86		



6(I) **ANNEXURE-XII** (LIG B-CLUSTER UNIT-OPTION-B)

	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	351.6	
	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	48.25	
	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	321.65	
	(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 : 3 fine sand) and			
	finished neat.			
6.8	Cement Gola	Rmt	15.6	
	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	Miscellaneous			
7.1	Making khurras 450x450mm with average minimum thickness of 50mm cement concrete			
	1:2:4 over PVC sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 and a coat	Nos	14	
	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 a test			
	pressure of 4.0kg/sqcm. including all fittings bends, sockets, elbow, tees, clamps, Y - Junction	Rmt	182	
	with cover (for collecting rainwater) including testing of joints etc. complete.			
	Total of Subhead 7.0			
	Total of "A'			





		Rate Ar	nalysis Chart for Coa	stal Region		
			Individual Units	;		
Туре	Option	Carpet Area of each Unit (in sqm.)	Total Cost (in Rs.)	Cost/sqm (in Rs.)	Construction Method Used	
EWS	Option-A	26.7	3,18,156.41	11,915.97	Masonry: Combination of red bricks and fly ash bricks Flooring/Roofing: Ferro cement channel, MCR tiles	
	Option-B	25.18	2,82,681.58	11,226.43	Masonry: Laterite stone blocks Flooring/Roofing: Filler slab	
LIG-A	Option-A	35.36	3,66,056.06	10,352.26	Masonry: Stabilised compressed earth blocks Flooring/Roofing: Pre-cast arch panel, MCR tiles	
	Option-B		34.5	4,55,948.69	13,215.90	Masonry: Red brick Flooring/Roofing: Plank and joist & Filler Slab
	Option-A	59.06	6,64,873.42	11,257.59	Masonry: Stabilised compressed earth blocks Flooring/Roofing: Plank and joist, MCR tiles	
LIG-B	Option-B	51.5	5,62,297.96	10,918.41	Masonry: Fly ash bricks, solid concrete blocks Flooring/Roofing: Ferro cement arch panel	



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Rate Analysis Chart for Coastal Region												
			Cl	uster 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					
	Option-A	24.8	51,44,429.10	24	2,07,436.66	8,643.19	Masonry: Fly ash bricks Flooring/Roofing: Pre-cast arch panels					
EWS	Option-B	22.3	59,76,151.25	24	2,67,988.85	11,166.20	Masonry: Stabilised compressed earth blocks Flooring/Roofing: Planks& joists					
	Option-A	29	39,56,205.90	16	1,36,420.89	8,526.31	Masonry: Fly ash bricks Flooring/Roofing: Pre-cast Ferro cement channel					
LIG-A	Option-B	30.2	57,02,195.24	16	1,88,814.41	11,800.90	Masonry: Stabilised compressed earth blocks Flooring/Roofing: Plank and joists					
	Option-A	57.4	91,75,242.13	16	1,59,847.42	9,990.46	Masonry: Combination of fly ash bricks & red bricks Flooring/Roofing: Filler slab					
LIG-B	Option-B	60	81,02,529.33	16	1,35,042.16	8,440.13	Masonry: Laterite blocks and stabilised compressed earth blocks Flooring/Roofing: Ferro cement arch panel					



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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 provided structural overhang, usually 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.



8

NOTES





DESIGN AND PLANNING OF AFFORDABLE INNOVATIVE GREEN SOCIAL HOUSING (Coastal Region)

<u>About Development Alternatives (DA):</u>

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:

DEVELOPMENT ALTERNATIVES B-32, TARA Crescent, Qutub Institutional Area, New Delhi - 110 016, India Tel: 91 (11) 2656 4444, 2654 4100 Tel: 91 (11) 2654 4200; Fax: 91 (11) 2685 1158 Email: tara@devalt.org: Website: www.devalt.org

BUILDING MATERIALS AND TECHNOLOCY PROMOTION COUNCIL Core 5 -A, First Floor, India Habitat Centre, Lodi Road, New Delhi- 110 003, India Phone: 91-11-24638096, 24638097, 24636759 Fax: 91-11-24642849 E-mail: info@bmtpc.org