



GOVERNMENT OF NEPAL
MINISTRY OF SOCIAL DEVELOPMENT
KAPILVASTU MULTIPLE CAMPUS

TAULIHAWA, KAPILVASTU
PROVINCE NO. 5, NEPAL



PREPARATION OF DETAILED PROJECT REPORT (DPR) OF
KAPILVASTU MULTIPLE CAMPUS, TAULIHAWA, KAPILVASTU

VOLUME I: FINAL REPORT

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SUBMITTED BY:



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Government of Nepal
Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal



Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Abstract of Cost

S.No.	Description	Amount
A	Site Preparation with excavation	13,889.59
B	Civil Works all complete	
	UPTO PLINTH LEVEL	25,881,240.54
	GROUND FLOOR	7,383,921.13
	FIRST FLOOR	7,388,451.00
	SECOND FLOOR	7,112,640.52
	THIRD FLOOR	6,927,829.73
	FOURTH FLOOR	1,620,203.28
	Sub Total	56,314,286.20
C	Finishing Works all complete	
	GROUND FLOOR	4,005,929.15
	FIRST FLOOR	3,385,571.83
	SECOND FLOOR	3,802,540.30
	THIRD FLOOR	3,103,034.16
	FOURTH FLOOR	2,400,413.41
	Sub Total	16,697,488.83
D	Electrical Works all Complete (5% of B+C)	3,650,588.75
	Sub Total	3,650,588.75
E	Sanitary Works all Complete (8% of B+C)	5,840,942.00
	Sub Total	5,840,942.00
F	PROVISIONAL SUM	370,000.00
G	Total (A+B+C+D+E+F)	82,887,195.37
I	Physical Contengency @ 8% of Total	6,630,975.63
J	NET TOTAL	89,518,171.00
K	VAT @13%	11,637,362.23
L	Total with VAT and Contingency	101,155,533.23



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TABLE OF CONTENT

ACKNOWLEDGEMENT

SYNOPSIS

SALIENT FEATURE

CHAPTER1.

INTRODUCTION.....3-5

1.1 Background

1.2 Objective

1.3 Scope of Works

Phase I - Preliminary Design Phase

Phase II –Design Development and Detailing Phase

CHAPTER2.

METHODOLOGY.....6-15

2.1 Phase I - Preliminary Design Phase

2.2 Phase II –Design Development and Detailing Phase

ANNEX-1: SOIL REPORT

ANNEX-2: STRUCTURAL ANALYSIS

ANNEX-3: DETAIL COST ESTIMATE

ANNEX-4: RATE ANALYSIS

ANNEX-5: DRAWINGS



CHAPTER 1. INTRODUCTION

1.1 Background

MISD, Kapilvastu Multiple Campus, Province No. 5, Nepal with its significant policy for the fiscal year 076/77 to develop basic physical infrastructure and amenity services to prepare detailed projects reports for various infrastructure. To materialize the planned development, the Government of Nepal through Ministry of Social Development among other several initiatives, intends to prepare the DPR of Kapilvastu Multiple Campus of Kapilvastu District.

1.2 Objective

The main objective of the prospective consulting service is to prepare the DPR of Kapilvastu Multiple Campus of Kapilvastu District for the purpose of construction works in the year 2076/77. The specific objectives of the job are:

1. To carryout site measurement, site analysis and study of infrastructural provisions
2. To carryout soil investigations
3. To prepare detailed architectural. Engineering design & working drawings of the building structures and allied service infrastructure
4. To prepare detailed bill of quantity, cost estimation and tender documents for the procurement of construction services.

1.3 Scope of Works

The consulting services have been divided in two major phases namely,

Phase I: Preliminary Design Phase:

During this phase, the detail site study will be performed and on the basis of the site study and site analysis, the conceptual design will be prepared and discussed with client. The preliminary design phase will be divided into two different stages i.e. pre-design stage and Schematic/Conceptual Design stage.

Pre-Design Stage

Field reconnaissance by the planning & design team including Team/Leader architect & structural engineer, assessment & informative survey of locally available construction material & technology, collection of district rates, study of local architectural & regional characters of the built structure of the project area.

- Study the site features, soil conditions, topography, climate, vegetation, Orientation, visual quality and existing approach roads.
- Study and apply in design the prevailing municipal or any other building bylaws or regulation and building codes as required by local government authority.

Verification / updating of topographical survey using total station and standard survey method, preparation of topographical maps delimiting the exact boundary with details of existing land and infrastructure features (road, drainage, electrical & waste disposal etc.) of the site. Carry out soil investigation using borehole number of as specified in the ToR using standard the soil investigation includes but not restricted to the following;



- Drilling/ deep boreholes
- Field test including standard penetration test at appropriate interval, undisturbed and disturbed sampling using appropriate sample sizes, ground water table monitoring
- Lab tests including natural moisture content, grain size analysis, atterberg limits, hydrometer analysis bulk and dry density, specific gravity, consolidation, unconfirmed compressive strength tests
- provide written report on analysis, design and recommendation for the structural design of the structures in question

Confirmation of space needs finalization/ revision of suggested architectural area / space requirement and infrastructural requirements based on appropriate performance standards and project's objectives. The area requirement should clearly indicate the modular design requirement for the proposed building structures with proper analysis of range of sports that can be accommodated.

Schematic / conceptual design stage

Verification/ revision/ updating of master plan of existing master plan that includes revised conceptual site planning, architectural plans of the buildings in the revised master plan and allied facilities as required along with the conceptual infrastructural plans (inclusive of conceptual; structural system , electrical & water supply, sanitary system, proposed material and building forms) and preliminary cost projection.

Phase II: Design Development & Detailing Phase

In design development & detailing phase following works will be performed

- Preparation of design documents based upon approved revised conceptual design that includes detailed architectural and engineering design, drawings and the details of -
- The built structure, sanitary & electrical space layout design and site element & architectural design report
- Earthquake resistant structural design and drawings of building, structure design report and engineering design of site infrastructure (road, Walkway etc.)
- Engineering layout and detailed design of external water supply, electrical, drainage, sanitary and garbage disposal system
- Preparation of three dimensional drawings showing the exterior 3D views of building with site for exterior design and surrounding architectural context & interior views giving clear idea of the proposed material & finishes of the main spaces / areas as appropriate.
- Preparation of construction/ working drawings of building and allied infrastructure with necessary details; information and as specified and required by the Client.
- Preparation of detailed BoQ, cost estimate, rate analysis and construction specification and preparation of Tender documents including PQ documents,
- Preparation of phase wise cost plan of the construction based on multiyear investment plan of ministry, prioritization of the construction of built structure and the clients feedbacks



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. Preparation of textual report highlighting the information as mention above head under the scope of work and including the architectural & engineering design concept in terms of area formation, functional relationship, structural system, cost consideration, architectural expression, material and the phase wise development cost. The structural design report and soil test reports will be included as annexure.



CHAPTER 2. REVISE METHODOLOGY

The consultant after critical review of the objectives and the scope specified in the ToR, has evolved a scientific study methodology to accomplish the project in the stipulated time frame. The study method of the project has been described in the following phases. The method has been described in flow chart. Mobilization of consultant will start immediately after signing the contract and will involve setting of the office and arrangement of office facilities.

2.1 Phase I- Preliminary Design Phase

PRELIMINARY PREPAREDNESS

Start-up meeting and interaction with Client Personnel

Immediately after the signing the contract, a start-up meeting with Client officials has been held in order to discuss and finalize the work process. The meeting come up and finalize the way in which the tasks to be performed as well as for establishing a cohesive and effective functioning group and securing the full cooperation and support of all concerned including various levels of stakeholders. The discussions covered the work process for field visit and office work to complete the project in stipulated time.

Desk study and Secondary data Collation

Availability of data has been thoroughly explored and all relevant data including topographic maps and conceptual plan of DCC has been gathered. Besides inventory of possible development sites, relevant past reports has been collected before carrying out field-appraisal. Except the documents and data related to the study area, the design data for the architectural and planning design of the sport complex/ stadium also has been considered from TIME SAVER STANDEREDs. This deals with the planning of the sport complex/ stadium with the provision of minimum required space data.

PRIMARY DATA COLLECTION, FIELD SURVEY, STUDY AND VERIFICATION

Site visit consisting of the Architect, Engineers and surveyor was carried out to observe and document firsthand information regarding the existing condition of proposed area and the area around the proposed site as well as the local community of the proposed site. During the site visit, the meeting was performed with the local stakeholders and DCC Staff of both the site. The visions of local stakeholders were also discussed as well the existing site condition was observed in detail for the design of the football stadium.

Detail Physical Survey

Detail physical Survey includes measurement and inventory of physical infrastructure of proposed sites; and the detailed topographic mapping of the sport complex site. Topographical survey has been conducted with total Station for the greater accuracy which is modern electronic survey equipment and technology used to perform horizontal and vertical measurement in reference to a grid system. Digital design data from CAD programs was uploaded to data collector. Total stations use a modulated near infrared light emitting diode which sends abeam from the instrument to a prism. The prism reflects this beam back to the instrument. The portion of the wavelength that leaves the instrument and returns is assessed and calculated. Distance measurements can be related to this measurement.



Establishment and Monumentation of Bench marks and survey: Existing benchmarks (BMs), as available from previous survey was incorporated in the present survey. Permanent BMs was established in proposed site at secured and easily visible area. Reference points for BMs have been located. The BMs has provided vertical control points for the survey and also serve as baseline stations and traverse points for horizontal ground control. The position of BMs has been prepared for all permanent monuments for easy retrieval during construction. All permanent benchmarks and survey control points has been surveyed.

Baseline /Traverse Survey: A closed traverse survey of baseline stations and traverse points has been carried out starting from accepted primary control points using TOTAL STATION. Reciprocal linear measurement and two sets of angular measurements have been taken between two consecutive baseline stations/ traverse points. The traverse survey has been also provided horizontal control for surveys. In order to enable a single coordinate system the baseline stations and traverse points has been connected with national survey grid, if available in the area.

Detail Topographical survey: Topographical survey has been carried out around the proposed site to show necessary details for design and to prepare plans. The density of survey points was a least 1 point per 25 square meters. The survey has been carried out by tachometric method. It has topographic details as well as the reduce levels. It produces the data for preparing topographic map.

Boundary Survey: Boundary survey has been carried out with help of cadastral data. In close consultation with the local landowner and the study team, the boundary of the study area has been fixed in the topographical base map, cadastral map and field.

Detailed Inventory Survey of existing structure

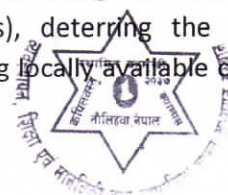
Inventory survey has been done for updating the information. During Inventory survey detail physical features has been updated. Inventory of physical features using the techniques of observation, measurement and topography, existing infrastructure condition survey and existing infrastructure, Inspection and Recording has been done. 100 m measuring tape and digital camera has been used for measurement and photography respectively.

Assessment on Existing Situation of project site

The existing condition in the study area has been observed in detail, which includes Identifying, suitable electric supply point. Identifying the economical, suitable and adequate water supply point , Existing sewerage system in the site and identifying the power outlet sewer (Environment hazard will be less), Inventory of bio-diversity, existing amenities etc. and level of requirement for their conservation, on site capacities of present and future utilities, Existing site utilities and function of existing buildings in the site (temporary or permanent), provision for storm water run -off, waste water discharge in the existing condition in site, Existing traffic patterns and vehicles, including emergency and service vehicles, need for an environmental and social impact statement, Availability and proximity of public transportation and existing transport roads, Preventing wind and its velocity, climatic condition, soil condition, vegetation, orientation etc.

Market Survey and Construction Material Investigation

The team conducted market survey near the site for determining the availability of required construction material and their market rate (Rate analysis), determining the availability of local construction material and their suitability for project (promoting locally available construction material



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and accessories) , determining the labor cost, land revenue cost, transportation cost (for preparing bidding document for construction), determining the market survey for the assessment of requirement of the function that can be used in the site area. District rate has been collected from DDC for slandered rate using in rate analysis. Detail investigation of construction material deposits will be carried out mainly on river terraces and on quarry sites. Material sites investigated will be evaluated by combining the results of field investigation. Potentiality of the reserve and quality of materials in the deposit has the main consideration in the evaluation of investigated material sight.

TASK III: MASTER PLANNING AND CONCEPTUAL DESIGN

Verification/ Revision/ updating of space requirement Calculation and master Planning

Verification/ revision/ updating of Master plan of existing master plan that includes revised conceptual site planning, architectural plans of the building in the revised master plan and allied facilities as required along with the conceptual infrastructure plans. The space requirements for the master plan and design will be calculated through various activities: meetings and study of norms. The team will have interaction with Client personnel and supporting staff, directly or indirectly affecting the client. The structured, unstructured questionnaires, open group discussion, brainstorming and other standards tools may be used to screen out issues and interests and ultimately sort out the information. These space requirement needs to be functionally connected. So, Functional flow diagram of building needs to be clearly designed for the users. Functional flow of the public within the building needs to be connected in the built form through architectural design. Revise architectural design if needed will be finalized through the discussions with the client. The study of norms includes the study of Nepal National Building Code, local bylaws, design standards, reports/ published articles for building. Master plan will establish a framework and key element of construction activities such as Road and circulation network Zoning, Scope for future expansion, Layout of the building blocks as per zoning indicating the existing blocks to be retained or dismantled and plan for the master plan for management of sewerage, electrical and other building services. The space requirements for the master plan and design will be calculated through various activities: meetings and study of norms. The team will have interaction with policy level personnel, Client personnel and supporting staff, directly or indirectly affecting the client. The team will ascertain clients requirements, prepare schedules of space area requirement, examine site constrains and potential in planning phase.

Conceptual and Preliminary Design

Before undertaking the revising of master plan if needed various steps have to be followed. The project has to be carried out in three parts. The first part will deal with the understanding of the project; where the site is located, its land use program and main aims and objectives of the project. This part will also deal with the literatures regarding the planning, designing of building, framework for a resourceful and user responsive plan can be designed. The second part of the project, the case study analysis, will deal with the comparative study of the selected case studies. The strengths and weaknesses of the case studies will be analyzed with the help of the theoretical framework. In this section the related existing laws and legislation are also discussed and the site analysis along with the local climatic analysis will also be carried out. Climatic conditions, particularly solar access, will guide the placement of building and site features in energy- conservative design. The final part of the conceptual phase includes design concept and planning of the propose site. The Nepalese cultural architecture will be incorporated for adding beauty in the design.



The design process impacts of the safety of a complex or structure. Using safe design principles will result in improved safety and reduced risk of illness and injury to constructors, end-users and those who maintain the complex. The costs associated with an unsafe design can be significant in terms of retrofitting, production downtime, higher insurance premiums, environmental cleanup costs and the costs associated with possible litigation. It is more economical to eliminate as many workplace safety hazards as possible by well- informed decisions at the design stage as it isto control them after the building has been constructed. That will be considering during design the complex.

Environmental consideration should start early -on. Layout plan of the structure will be guided by environmental and climatic factors, and alternative layouts will be compared on environmental and climatic grounds. The design of the structure will incorporate environmental concepts such as avoiding/ minimizing adverse environmental impacts, recycling or reusing and proper handling of wastes, making optimal use of natural systems (such as solar energy and natural lights), health &safety as well as accident/ emergency management measures, he proposed layout and designs will be screened for any environmental risks. The preliminary design consists of preliminary design of proposed structure and its major components, e.g. architectural, Structural, water supply, sanitation, electrical, mechanical and others with preliminary statement of construction materials, estimate of cost and construction scheduling.

TASK IV: GEOTECHNICAL INVESTIGATION WORKS

After approval of conceptual design, this gives the structure position. Geotechnical investigation work will be done for the estimation of the bearing pressure of the earth at the site. The consultant will locate geology of the site (possible faults, land movement, settlement, soil type, water table). The data obtained from the geotechnical exploration investigation and laboratory testing will be analyzed and interpreted vis-a - vis the existing site conditions and the proposed construction in order to determine the various design parameters including the safe bearing pressure and the potential settlement for the buildings. This will lead to selection of most optimal type and depth of the foundation. It will also determine the possibilities and limitations of boring/ drilling. Initially, a couple of preliminary works will be carried out .Mentions them: Reconnaissance of the proposed site by the geotechnical professional wills the first step. During reconnaissance, we figured out the topography of the land to be relatively flat; then, a naked eye study of the soil type and the geological condition of the site will be down; With the help of the concept design of structure, the professionals fixed the locations for boring on the topographical and location map with the co-ordinates and reference points' details; Study team will develop the methodology and tools (checklist and bore log format) for the drilling works and will be prepared on the bases of study of the above documents and literatures. It will be finalized with discussion with client.



Determination of Bearing Capacity, Analysis and foundation design

The allowable bearing pressure (q_a) is the maximum pressure that can be imposed on the foundation soil taking into consideration the ultimate bearing capacity of the soil and tolerable settlement of the structure. Analysis to determine the ultimate bearing capacity and the pressure corresponding to a specified maximum settlement will be performed and the minimum pressure obtained from the two analyses will be adopted as the allowable bearing pressure. Safe bearing capacity and net bearing capacity will be calculated according to IS: 6403-1981 and IS: 8009-1976. Other codes such as USBR manuals may also be adopted. Allowable bearing capacity at the proposed site and variation within the area will be proposed. Allowable bearing capacity for different types of foundation for different depths will be recommended based on national Building code of Nepal, national Building code of India (1983) or other suitable codes.

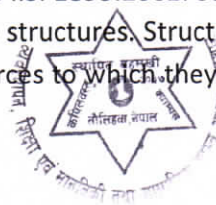
Liquefaction Analysis will be done. Soil liquefaction occurs in loose, saturated cohesion less soil units (sand and silts) and sensitive clays when sudden loss of strength and loss of stiffness is experienced, sometimes resulting in large, permanent displacements of the ground. Seed et al, 1985, state that Soil layers with a normalized SPT blow count $[(N1)60]$ less than 22 have been known to liquefy. Marcuson et al, 1990, suggest an SPT value of $[(N1)60]$ less than 30 as the threshold to use for suspecting liquefaction potential. Liquefaction has also been shown to occur if the normalized C_{pt} cone resistance (q_c) is less than 157 tsf (15MPa) (Shibata and Taparaska, 1988)

We will clearly recommended what type of design parameter, bearing capacity and status of environment or land stability according to the lab test and analysis with geotechnical profile along different bore hole.

PHASE-II: DESIGN DEVELOPMENT & DETAILING PHASE**TASK VI: DESIGN AND WORKING DRAWINGS****Final Design and working drawings of built structure**

Architectural Design and Working Drawings: The consultant in consultation with the Client and related organizations will prepare detailed architectural design and drawings of the structure/ building using AutoCAD software. The architectural details will be in compliance with NBC 106:2003 regarding the provisions for physically disabled people. The consultant will prepare architectural design drawing and detailed architectural and engineering working drawings acceptable to Client, in suitable and presentable scales. The elevation, the floor-wise plan, the plan and overall perspective plan of the complex will be prepared in standard scale.

Structural analysis and Working Drawings: Based on the approved concept of Architectural design, structural analysis will be done to design safe, economic, stable, efficient structures which then will safe guard the lives of the people in the state of earthquake disasters. While designing a structure great emphasis will be given for seismic analysis, as natural disasters like earthquake on perspective of Nepal have been great catastrophe on existence as well as wealth due to worst scenario it can create. The analysis of the structure shall be fully compliance with various stipulations of Slandered code of practice like Nepal National building codes; Seismic Design of building in Nepal (NBC105), Code of practice for plain and Reinforced Concrete I.S. 456-2000, HANDBOOK ON CONCRETE REINFORCEMENT AND DETAILING; SP34 and Criteria earthquake Resistant design structures I.S: 1893:2002. Structural Analysis deals with analyzing internal forces in the structural members of the structures. Structural design deals with sizing various members of the structure to resist the internal forces to which they are subjected in



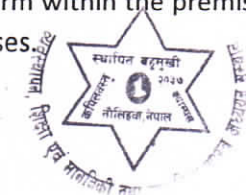
the course of their life cycle. Unless the proper structure Detailing method is adopted the structural design will be no more effective. The above mentioned standard Code of practice will be thoroughly implemented for proper analysis, design and detailing with respect to safety, economy, stability, strength ductility besides satisfactory serviceability requirements of Cracking and deflection will also be considered. The foundation design of the structure will ensure that the safe bearing capacity of the sub soil at the site will not exceed the loads from the structure. All the analysis, design and detailing will be based on the principles of Limit state of Design. Hence, the general scope of the structural design will include the Following:

- Identification of the structural system and structural member for the analysis. These structural elements include but not limited to, All floor, roof, and wall framing members and slabs; All piers, walls, columns, footings, piles, and similar elements of the substructure; All other substructures and superstructure elements that are proportioned on the basis of stress and All other substructures and superstructure elements that are proportioned on the basis of stress, strength, and deflection requirements.
- Determination of vertical loads which will be imposed by all the dead loads and live loads. The dead load includes those of permanent materials and equipment, including the structure's own weight with the allowance for any loadings that are anticipated to be added at a later data. The live loads include all loads resulting from the occupancy and use of the structure.
- Determination of horizontal loads due to earthquake and wind for which seismic analysis according to standards will be followed whereas analysis of wind velocity and pattern in the proposed site will be considered.
- As per the geotechnical investigation report, bearing capacity of soil will be considered.
- Analysis of the structure by standard structural analysis software that uses finite element approach and analysis of the space frame for vertical and horizontal loads.
- Determination of stresses and displacements for all the members and joints.

Based on the structural analysis and analysis from analytical model, the structural design will be carried out following relevant codes. The consultant will follow the requirements for the ductile detailing in compliance with the requirement of IS 13920 or any other relevant ductile detailing code. This standard covers the requirements for designing and detailing of monolithic reinforced concrete buildings so as to give them adequate toughness and ductility to resist severe earthquake shocks without collapse. The provisions for reinforced concrete construction given herein apply specifically to monolithic reinforced concrete construction. Precast and /or prestressed concrete members may be used only if they can provide the same level of ductility as that of a monolithic reinforced concrete construction during or after an earthquake. The structural design will comprise detailed structural analysis and working drawing with all necessary details required for construction in AutoCAD format.

Electricity Supply, Telecommunication / Acoustics design and working drawings:

All electrical design related to this project will be carried out with the highest degree of technical quality and workmanship accepted for this category of work. Special attention will be given to rigorous application of safety codes and accepted practices so that with the completed works, operation of electrical services may add to the overall efficiency of functions to perform within the premises without in any way detracting from the safety aspects required within the premises.



Layout arrangements, EPABX, methods for internal block wiring and other requirements regarding provisions of space, etc, may be decided depending as the number of phone outlets. Working drawing of Electricity supply, Telecommunication/ Acoustics design with all necessary details required for construction in AutoCAD file format will be prepared.

Sanitary Design and Working drawings: The existing sewerage system will be studied and the new system will be recommended accordingly. If sewer lines do not exist in the proposed area, septic tanks and soak pit will be designed. Most public lavatories are not properly maintained in Nepal due to one or other reasons. Hence, the design of plumbing and sanitation for building need special attention. For common toilets, pour flush system will be considered for cultural and other reasons (low water consumption, less chance of breakage's simplicity in cleaning and maintaining etc). Selection of floor and wall finishing will take into account the cleaning and maintenance requirements. This will be given topmost priority because of the need of the high degree of cleanliness. Water Supply system will have GI soil excreta will first be disposed into septic tanks from where affluent will be disposed into internal sewer network which will ultimately be connected to drainage system of the complex. Working drawing of Sanitary Design with all necessary details required for construction in AutoCAD file format will be prepared.

Interior design and drawings: The interior design professional is extremely important in the " Whole building" design process and will be contracted at the onset of the project, referred to as the pre- design phase or programming phase, with the other major disciplines, key stakeholders. Client and space needs. This can be thought of as strategic programming. The interior designer will follow General Service Administration (GSA) principles for design works. It is important to analyze building systems from a holistic viewpoint and specify environmentally sustainable materials methods.

Infrastructure Design and working Drawings

Water supply system: We will estimate of the water supply demand of a Sport Complex. If exist the water supply system in the proposed area then we will study the existing water supply components in detail including the service area, level of service, known problems, sufficient as per demand with existing reservoirs, transmission mains, distribution mains etc. All the project components will be studied & designed and preparation of drawings in detail and rehabilitation, extension and replacement etc. will be assessed for each of the components. If new system will need to design then we will prepare the water supply network as per need and carry out the hydraulic design of the pipe Networks with the use of computer software. Detailed tabular output and graphical output will be generated for various scenario of supply and demand. We will identify the scheme component as required and detailed technical design and drawings will be done

Drainage System: The design will incorporate surface run off requirement, parking facility, turning maneuvers and other geometric parameters. The internal road surface will be well integrated with the overall drainage system. Storm water or run off, due to rain over the proposed project area will be collected and drained off into natural drainage lines. Quantity of storm water basically depends on the factors: Rainfall, Nature of the surface over which rainfall takes place, and Intensity of rainfall. Rainwater falling on roofs, paved areas and other open area must be collected and disposed off efficiently and quickly. Provision will be made for a separate and independent storm water disposal system leading to the public storm -water drain or natural watercourse for individual complex structure. Provision will be made for the drainage of wastes/rain water from balconies and terrace in an effective manner. For designing rain water/ storm water disposal systems, the maximum intensity of rain fall will



be used. Working drawing of drainage System design with all necessary details required for construction in AutoCAD file format will be prepared.

Road and Walkway system: Road and Walkway system infrastructure will be designed on the based on master plan using standard software SW Road. Working drawing of road and Walkway system design with all necessary details requirement for construction in AutoCAD file format will be prepared.

Electrical and Telecommunication System:An important property of the electricity grid is that production must be carefully matched to consumption in order to keep voltage and frequency stable and avoid damaging expansive infrastructure. Design and Study of power Demand, Study of Existing NEA substation capacity, Study whether transformer as the demand load of sport complex is available or not, study whether the Transmission line of 11KVA or 33 KV inside or nearby sport complex is available or not. If not available identification of point of tapping, Availability of Dedicated Electrical line, Design of Electrical system for sport complex. The electrical network will be design considering ground lighting, road lighting and office lighting. The Generator will be consideration for office, road lighting, water supply & firefighting. Working drawing of Electrical and Telecommunication system Design with all necessary details required for construction in AutoCAD file format will be prepared.

Landscape Design and working Drawings

Landscape will be closely integrated to produce the functional and aesthetic detailing. The guiding philosophy will be Harmony and aesthetics. It will also been seen that the environment is enhanced by the construction of the buildings in the site. The possibilities of the landslides due to unnecessary cutting and filling during the site development works will be examined and they will be prevented from taking place during the design phase. Elements of the master plan of which of which landscape is one of the components will be tailored to the specific requirements of the site and fully integrated into the existing topography. A harmonious mixture of greenery, lawn, paved walkways and water body will be achieved within the permissible cost constraints. Emphasis will be laid on selecting system of trees and flowering shrubs, which need lesser manicuring. Details landscape design of the building premises, the consultant will consider the following aspects, but not limited to this

Environmental sustainability and economical design will be considered as such durable exterior material will be recommended that enhance both the site landscaping and the building design; B) Balance between software and hardscape will be considered; C) The landscaping will be designed to create an environmentally sensitive and aesthetically attractive design blending the created exterior environment with the polytechnic and other structures; D) Landscaped courts and open spaces will be made accessible to all, both staffs and visitors; E) The landscape will be designed that will enhance the aesthetic character of the polytechnic and hide or screen exposed equipment and building parts, Features, or functions that, by their nature, are not aesthetically pleasant. Vegetation will be used to screen or form a barrier to, particular matter and to protect the structures from motor vehicle pollutant source; F) Use of trees and vegetation to shade large hardscape areas such as parking lots; G) Design will be such that the topography of the site around the building will slope away from the buildings to direct any water away; H) Xeriscape design will be highly practices that includes use of sustainable local/ regional vegetation requiring minimal watering in order to minimize The maintenance of the plantings; I) Low-maintenance landscape design and features will be given priority and high efficiency irrigation, and /or use of captured rainwater will be encouraged to the most; J) Energy efficient exterior lighting will be encouraged



TASK VII: ESTIMATE AND DOCUMENT PREPARATION**PREPARATION OF TECHNICAL SPECIFICATION**

The consultant will prepare the technical specification based on civil, electrical, water supply, sanitary design and interior design which will in turn base on approved concept of Architectural design. The specification of construction materials will meet the standard requirements of Nepal Bureau of standard and or ISO standard. The technical specification will be approved by Client before detailed cost estimation made of the project. Technical specification specifies or describes the nature and the class of the work, materials to be used in the work, workmanship, etc. and is very important for the execution of the work. The cost of the work depends much on the specifications one can easily understand the nature of the work and what the work will be. Drawings only do not furnish the details of different item of work, the quantity of materials, proportion of mortar and workmanship, which are described in specifications. Thus, the combinations of drawings and specifications define completely the structure. Drawing and specifications form important parts of contract document. During writing specification, attempts will be made to express all the requirements of the work clearly and in a concise form avoiding reception and ambiguity. As far as possible, the clauses of the specifications will be arranged in the same order in which the work will be carried out. The specification will be written in a language so that they indicate what the work should be, and words shall be or should be is used. The specification depends on Requirement of the work, strength of material and Quantity of material, etc.

Detail Estimate, Rate Analysis and BOQ

Quantity Survey: Quantities will be estimated from drawings using Civil Engineering standard Method of Measurement. These quantities will be entered into the Bill of Quantities. The Bill of quantities will follow a format approved by the client. Quantity of each item will be calculated using spreadsheet (Excel).

Rate Analysis: The rate analysis for the estimate purpose will be based on valid norms and standard of DUDBC. The unit rates will be adopted for current fiscal year as well as prevailing market rates. The rates will include all expenses for the completion of the works to the standard as specified in the Norms for Rate Analysis. The rates basically will consist of direct expenses as cost of supply and delivery of materials, hauling, storage, lifting, carrying, labor cost for erection, maintenance. The rates will also include all indirect expenses. The Rate Analysis will be prepared using an Excel Software.

Unit Rates: Construction items for which unit prices or lump sum prices would be bid by contractor will be first identified and we will be derived their unit cost annualized considering standard GON norms of unit price analysis and other accepted norms of LCB contractors; markets prices; availability of materials on local markets or alternative cost of imported materials; wages of skilled and unskilled labors; mobilization and demobilization cost and overheads and profits. The unit price of materials to be adopted for the purpose of rate analysis will be either taken from approved rates for the district or from authorized agencies and analyzed according to GON Norms and Consultant's experience. Labor rates will be taken from the office of college and be verified with the current market investigation report of market study team.

Cost Estimate: Based on the approved technical specification from Client, the consultant will prepare detailed cost estimates for civil, electrical, water supply, sanitary works and interior works of the project. This includes the estimation or calculation of the quantities required and expenditure likely to be incurred in The construction works. For electrical, water supply and sanitary works estimation of



numbers of different fittings are found out and rates are taken per number for supply and fixing in position. The cost estimate will be based on government norms, rate analysis and the approved rate for construction materials of the district. The consultant will seek approval from client for the items/materials, which are not included in the norms for rate analysis. For the purpose of rate analysis, the points will be considered are Details about all the operation involved in carrying out the works; Quantities of materials required and capacity of doing work per labor. The rate of a particular item of work depends on specifications of works and materials, quality of materials proportion of mortar method of constructional operation, etc. Quantities of materials and their rates, number of different types of labor and their rates, Location of the site of work and its distances from the sources of materials and the rate of transport, availability of water and profits and miscellaneous and overhead expenses of contractor.

Preparation of All Project Plan/ Construction Plan/ Work Management plan

The staged construction phases of structure as well as the other entire project item will be detailed. This project/construction schedule and Management plan will depict the detail task and activities based on realistic performance assumption covering all the project items using the Microsoft project/primavera software. Along with construction schedule, the necessary key construction equipment will be listed out mentioning innovative construction techniques to be adapted.

Preparation of Pre-Qualification Document

We will prepare the pre- Qualification document if require. This document will base on procurement Act and contain selection criteria of contractor for criteria for construction works materials equipment method of installation of mechanical and electrical works and for operation and maintenance of each sub projects.

Preparation of phase wise cost plan

Implementation involves the completion of numerous activities (project component) by employing various resources- men, material, money and time so that project is translated to ensure the completion of the project within scheduled time and budget provision. Project components construction will be break down into phase wise with cost plan based on multiyear investment plan of DCC. Prioritization of the construction of built structure will be done based on DCC feedbacks.





Government of Nepal
Ministry of Social Development
Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal
BILL OF QUANTITY



Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Date: Jan 1st, 2020

S.N.	Description	Unit	Quantity	Approved Rate		Amount	Remarks
				In Figure	In Words		
A. Provisional							
1	Provide Insurance to permanent works and construction equipments and against to work force and engineer's staffs all complete	L.S.	1.000	200,000.00		200,000.00	
2	Insurance Premium for Third Party liability personal	L.S.	1.000	25,000.00		25,000.00	
3	Provide Laboratory test facilities for materials and concrete cube tests for the period of contract as per specification and instruction of site incharge	L.S.	1.000	100,000.00		100,000.00	
4	Provide and maintain all the lights ,guards,.fencing netting warning signs project sign board and watching for the protection of the works for the safety and convinces of the public or other as per contract specification and instruction of site engineer	L.S.	1.000	25,000.00		25,000.00	
5	Preparation of As Built Drawings after complection of the works all complete	L.S.	1.000	20,000.00		20,000.00	
Sub Total (A)						370,000.00	
B. Civil Work							
For Building							
I. SITE CLEARANCE							
1	Preparation of site including excavation of soil for levelling ground , removing loose earth, soil and brick-bats etc. as per drawing, specification and instruction of the engineer, all complete.						
	Site Clearance (uprooting of grasses, cutting of Soil heaps/removing of surplus Soil and leveling of Ground for preparation of Construction Site)	Sq.m.	710.67	19.54		13889.58805	
Sub Total							
II. EARTHWORK IN EXCAVATION							
1	Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including lift up to 2.5m timbering, dewatering by manual or mechanical means etc. as per specifications with all contractor's own machinery and equipments, providing crossing of track, shoring, strutting, timbering and buttressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises up to a lead of 30m, etc. all complete as per drawings, specifications and instructions of the Engineer.						
	E/W in excavation. : Using Machine (BM Soil)	Cu.m.	1,756.00	82.31		144542.4986	
	E/W in excavation. : Manual	Cu.m.	97.35	488.01		47506.54805	
III. EARTH FILLING							

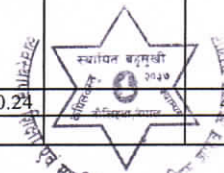


1	Earth work in filling in foundation, floor etc. shall be done with good excavated soil in the floor with proper ramming in 20cm layers ,after sprinkling water and consolidating to 15 cm layer including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc. , as per drawing, specification and instruction of engineer, all complete					
	Earth backfilling - compaction work	Cu.m.	1,053.60	305.01		321357.9053
	Earth filling (Borrowed Soil) - compaction work	Cu.m.	263.18	7,462.45		1963985.655
IV. BRICK SOILING						
1	Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and instruction of engineer, all complete.					
	Flat Brick Soling (Second Class Brick)	Sq.m.	1,399.26	713.79		998777.7819
V. PLAIN CEMENT CONCRETE WORK						
1	Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.					
	P.C.C. - 1:3:6, Crushed aggregate	Cu.m.	94.02	7,304.01		686748.8004
	P.C.C. - 1:2:4 - crushed aggregate	Cu.m.	14.21	8,908.99		126584.9461
VI. P.C.C. FOR R.C.C WORK						
1	Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength without imparing strength and durability as per direction of Engineer for the following grades of the structural concrete: (Mix design is essential)					
	PPC for RCC (1:1.5:3) - crushed aggregate	Cu.m.	25.51	10,401.75		265330.7151
	PPC for RCC (1:1:2) - crushed aggregate	Cu.m.	1,000.62	14,237.22		14246096.53
VII. STEEL REINFORCEMENT						
1	Providing and laying, steel reinforcement bar including straightening, cleaning, cutting, bending, binding with 20 SWG annealed tying wire and fixing in positions as per drawing, specifications and instructions of the engineer, all complete.					
	Reinforcement work for R.C.C.	MT	187.58	122,820.00		23038045.41
VIII. FORMWORK						



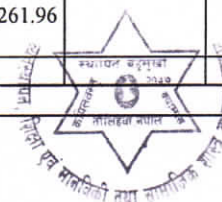
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1	Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.					
	19mm Plywood Post for Columns/Shear Walls/Foundation	Sq.m.	1,369.63	518.08		709580.5342
	19mm Plywood Form work for slab/Staircase	Sq.m.	2,100.13	609.69		1280421.22
	Plywood Form work for Beam/Lintel/Sill	Sq.m.	1,204.72	787.98		949290.6128
IX. BRICKWORK						
1	Providing and laying, brickwork in foundation with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per drawings, specification and instruction of engineer, all complete.					
	Half Brick Wall (1:4 C/M)	Sq.m.	775.97	1,487.86		1154540.711
	Brick work in c.m. - 1:6 (Below GF)	Cu.m.	177.54	12,414.46		2204118.724
	Brick work in c.m. - 1:6 Ground Floor	Cu.m.	34.96	12,614.36		441056.8656
	Brick work in c.m. - 1:6 above GF	Cu.m.	142.26	12,919.37		1837923.163
X. CEMENT SAND PLASTER						
1	Providing and laying, cement sand plastering on floor, wall, ceiling, skirting, dado, cornices, etc. of good finish, including raking the joints, cleaning and wetting the surface and curing the works all complete, as per drawing, specification and instruction of engineer, all complete.					
	1/2" cement plaster in Interior/external ceiling- 1:4	Sq.m.	1,723.36	371.86		640843.2093
	3/4" cement plaster in Walls interior/external - 1:6	Sq.m.	4,931.41	358.14		1766109.472
	3/4" Slab Boarder Band (1:3 C/M)	Rm	354.73	156.14		55387.37863
	Tile Design over Slab using 1:3 Cement Mortar	Sq.m.	302.07	6,931.96		2093936.704
SUB-TOTAL (B)						54986074.97
C. FINISHING WORK						
I. 1.5" THICK SCREEDING						
1	Providing and laying, 1.5" thick screeding with 1:2:4 concrete (agg. Size 12mm) on proper slope after scraping, cleaning and watering the old surface as per drawing, specification and instruction of engineer, all complete.					
	1.5" floor Screeding works (1:2:4)	Sq.m.	1,785.38	524.49		936420.2069
II. CEMENT PUNNING (1:1)						
1	Providing and laying, 3 mm thick cement sand punning (1:1) on floor, skirting, dado etc. including cleaning and wetting surface, mixing, laying and rubbing with steel trowel to a hard, smooth and shining surface and curing for a quality finish as per drawing, specification instruction of engineer, all complete.					
	3mm thick net cement punning	Sq.m.	1,817.68	240.24		436671.1332



19

III. MARBLE FLOORING							
1	Providing and laying, 16 mm. thick and minimum 600mmx600mm size Godawari Marble in floor, dado, skirting, Staircase Steps, Landing etc. laid with 20mm thick Cement Sand mortar (1:2) in proper slope for draining wash water, joint not exceeding 3 mm. and pointed with White Cement slurry, grinding,						
	Marble flooring and finishing	Sq.m.	392.22	3,764.99		1476698.46	
	Marble nozing on staircase	Rm.	385.05	422.91		162843.5577	
IV. GRANITE CLADDING							
1	Providing and laying, 20mm thick granite with Cement Sand mortar (1:2) in proper joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.						
	16mm thick Granite Cladding and finishing	Sq.m.	23.38	7,445.21		174077.1495	
V. CERAMICS GLAZED TILES							
1	Supplying and fixing of Best Quality Ceramics glazed tiles on wall and floor in (1:1) cement mortar over cement plaster in (1:3) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.						
	Ceramics non-glazed floor tiles (Cm-1:4)	Sq.m.	149.89	2,587.14		387775.2342	
	Ceramic glazed tile for walls(Cm-1:4)	Sq.m.	424.88	2,432.33		1033438.868	
VI. WOODEN DOOR FRAME AND PANNELED SHUTTERS							
1	Supplying and fitting of 'Wooden Door Frames of approved section with 6 nos. of Holdfast for Each Frame, 38mm paneled Shutter of Sall Wood, Fixing of 300mm and 150mm tower bolt, 8" Brass Handle and 12" Brass locking Set and necessary accessories as per drawings, specification and instruction of engineer, all complete.						
	Saal Wood Frames	Cu.m.	0.23	100,047.20		23260.97484	
	Saal Wooden paneled shutters	Sq.m.	4.60	8,661.96		39845.02957	
	Fixing 4mm thick Glasses in Ventilation	Sq.m.	2.86	1,253.66		3587.977782	
VII. ALUMINIUM DOOR/WINDOW							
1	Supplying and fitting of Alluminium Doors /Windows of approved section frame and color with shutters, 5mm glass and necessary accessories as per drawings, specification and instruction of engineer, all complete.						
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102x45x1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	Sq.m.	181.14	7,612.77		1378958.126	
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	Sq.m.	168.00	6,436.81		1081384.836	
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	Sq.m.	26.03	7,612.77		198122.3393	
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	Sq.m.	53.04	69,261.96		3673654.279	
VIII. ALUMINIUM PARTITIONS							



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1	Supply and Fixation of Alluminium partition of approved section size with 5mm clear glass or 9mm Nepal board with all necessary fittings as per drawings, specification and instruction of engineers, all complete.					
	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	Sq.m.	348.63	4,641.94		1618316.013
IX. PAINTING						
1	Providing and applying, inside and outside painting work on wall and ceiling of approved color including necessary primer and a coat of plaster of parish (as per product manual) to give uniform color after rendering surface clean and moist (where necessary) as per specifications, drawings, and instruction of the engineer, all complete.					
	2 coats Washable distemper painting followed by wall putty	Sq.m.	4,785.87	269.63		1290398.103
	2 coats of Weather Coat painting (External) followed by wall putty	Sq.m.	1,792.97	429.93		770858.4465
	Readymade Enamel Painting Works	Sq.m.	17.57	290.34		5101.322996
X. STAINLESS STEEL RAILING WORK						
1	STAINLESS STEEL RAILING WORKS(3-0" Height) Supplying, fitting and fixing of Stainless steel of 202 grade in hand railing (in Staircase, Ramp, parapet) using 50mm dia of 1.5mm thick circular pipe with Designed Balustrade (Round, Squared or Plate Type as per approval of Engineer with necessary fittings & flanges for holding horizontal members & the Hand Rail above) @ 0.90mtr. c/c and stainless 1" dia. Pipe bracing in 4 rows with necessary fittings like fasteners/anchors, flanges, bracket, tee, grinding, buffing, polishing all complete as per drawings, specifications and instructions of site engineer.					
	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	Sq.m.	190.71	3,395.66		647577.9667
SUB-TOTAL (C)						15338990.02
D. Electrical Work						
SUB-TOTAL (D)						3516253.25
E.SANITARY WORK						
Sub-Total (E)						5626005.2
TOTAL (A+B+C+D+E)						79,837,323.44
Physical Contengency @ 5% of Total						3,991,866.17
NET TOTAL						83,829,189.62
VAT (13%)						10,897,794.65
TOTAL WITH VAT AND CONTINGENCIES						94,726,984.27



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NOTES:

1. All dimension are in mm or otherwise as stated.
2. Care should be taken to be read in conjunction with structural, sanitary and electrical drawings.
3. Site engineer to notify the consultant if any discrepancy in dimensions is found in drawings as per site condition.
4. Sill and Lintel dimensions are measured from the slab i/c.
5. Dimensions are excluding the plaster/POP thickness.
6. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
7. Steel Grade - Fe 500

Opening Schedule

Door (D1)	900 x 2100	30
Door (D2)	750 x 2100	20
Door (Md)	1800 x 2100	2
Window (W1)	1200 x 1500	131
ventilation(V)	600 x 600	12

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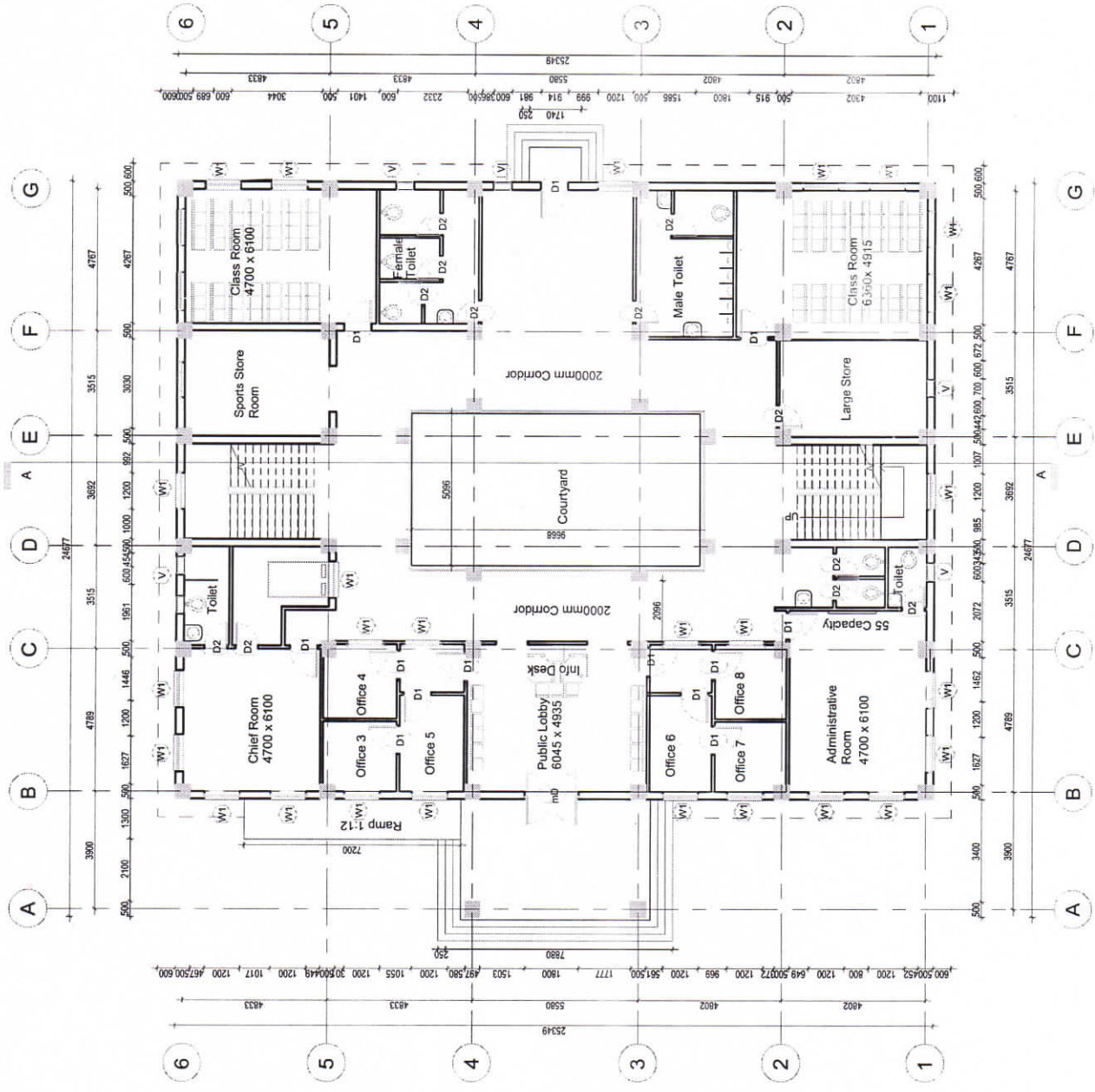
Ministry of Social Development
Kapilvastu Multiple Campus
 Tadhana, Kapilvastu
 Province no. 5, Nepal

SUBMITTED BY

Everest Engineering Consultant
 P.O.Box: 19103, Mahadevatan Marga
 Mid-Baneshwar, Kathmandu.
 Tel: 01-4461449, Fax: 01-4461449
 Email: everest_consultant@yahoo.com

Project Title : Preparation of DPR of Kapilvastu Multiple Campus, Tadhana

Sheet Title: Ground Floor Plan	Sheet No.
Checked By : Er. Anshu Dev Y	Date :
Designed by : Er. Anshu	Dec. 2019
Draft By :	Scale : 1:150
Drawn By :	Er. Umesh



GROUND FLOOR PLAN

Area: 552.20Sqm



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NOTES:

- All dimension are in mm, or otherwise as stated.
- Architectural drawings to be read in conjunction with structural, sanitary and electrical drawings.
- Site engineer to notify the consultant if any discrepancy is observed during construction.
- Drawings remain property of consultant.
- Sill and Linel dimensions are measured from the slab ht.
- Dimensions are excluding the plaster/POP thickness.
- Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
- Steel Grade - Fe 500

SUBMITTED TO
Ministry of Social Development
Kapilvastu Multiple Campus
 Taulihawa, Kapilvastu
 Province no. 3, Nepal

SUBMITTED BY
Everest Engineering Consultant
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 E-mail: everest_consultant@yahoo.com

Project Title: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa	
Sheet Title: First Floor Plan	Sheet No.
Checked by: Er. Anshu Dey	Date: DEC 2019
Designed by: Akash Chandra	Scale: 1:150
Drawn by: Er. Umesh	AR/2



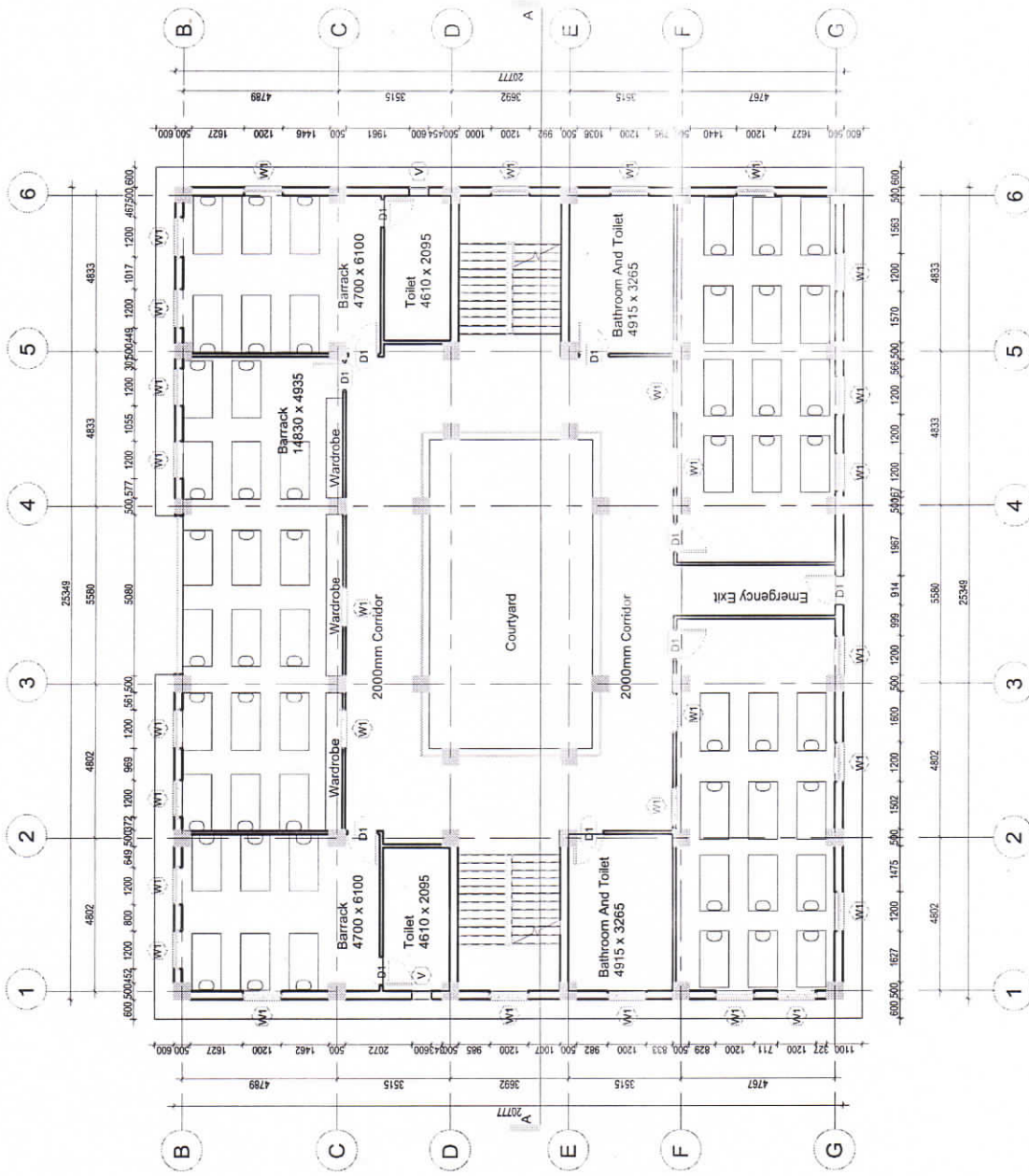
FIRST FLOOR PLAN
 Area: 527.20 Sqm



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NOTES:

1. All dimension are in mm or otherwise as stated.
2. All dimensions are to be taken from the center line of structural drawings.
3. Architectural drawings to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy or error is found in drawings as per site condition.
5. Drawings are to be prepared as per site condition.
6. Sill and Lintel dimensions are measured from the slab Mt.
7. Dimensions are excluding the plaster/POP thickness.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500



SECOND FLOOR PLAN
Area: 527.20sqm

SUBMITTED TO



Ministry of Social Development
Kapilvastu Multiple Campus
Taulihawa, Kapilvastu
Province no. 5, Nepal

SUBMITTED BY



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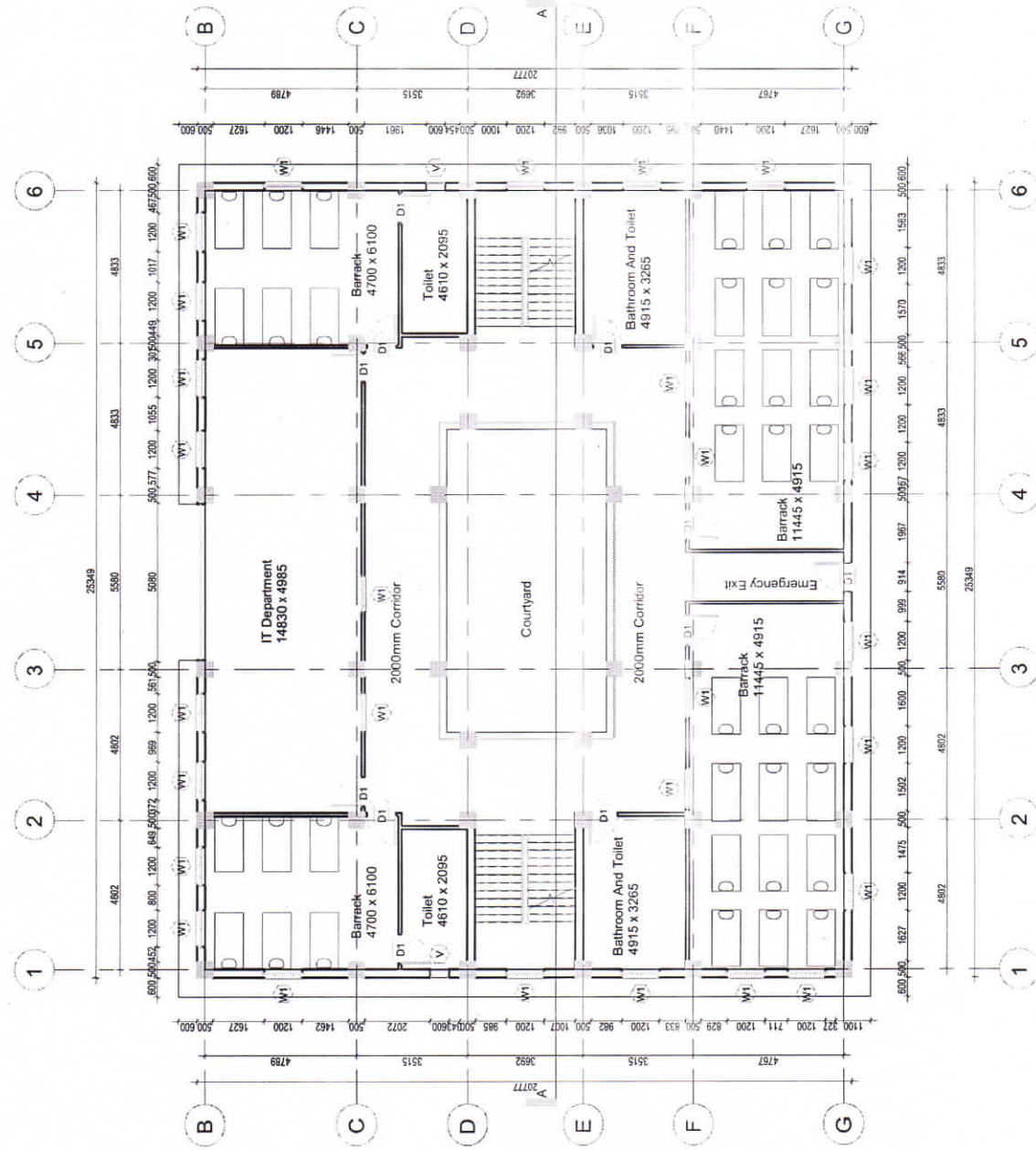
Project Title : Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa	
Sheet Title: Second Floor Plan	Sheet No.
Checked By : E. Manoj Ghosh	Date :
Designed By : Pradyumn Chandra	Dec 2019
Drawn By :	Scale : 1:150
Drawn By :	EP. Umesh



24

NOTES:



1. All dimension are in mm or otherwise as stated.
2. Refer to the previous drawings for details.
3. Architectural drawings to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy is observed during the construction.
5. Drawings remain property of consultant.
6. Sill and Lintel dimensions are measured from the slab M.L.
7. Dimensions are excluding the plaster/POP thickness.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500



THIRD FLOOR PLAN
Area: 527.20SqM

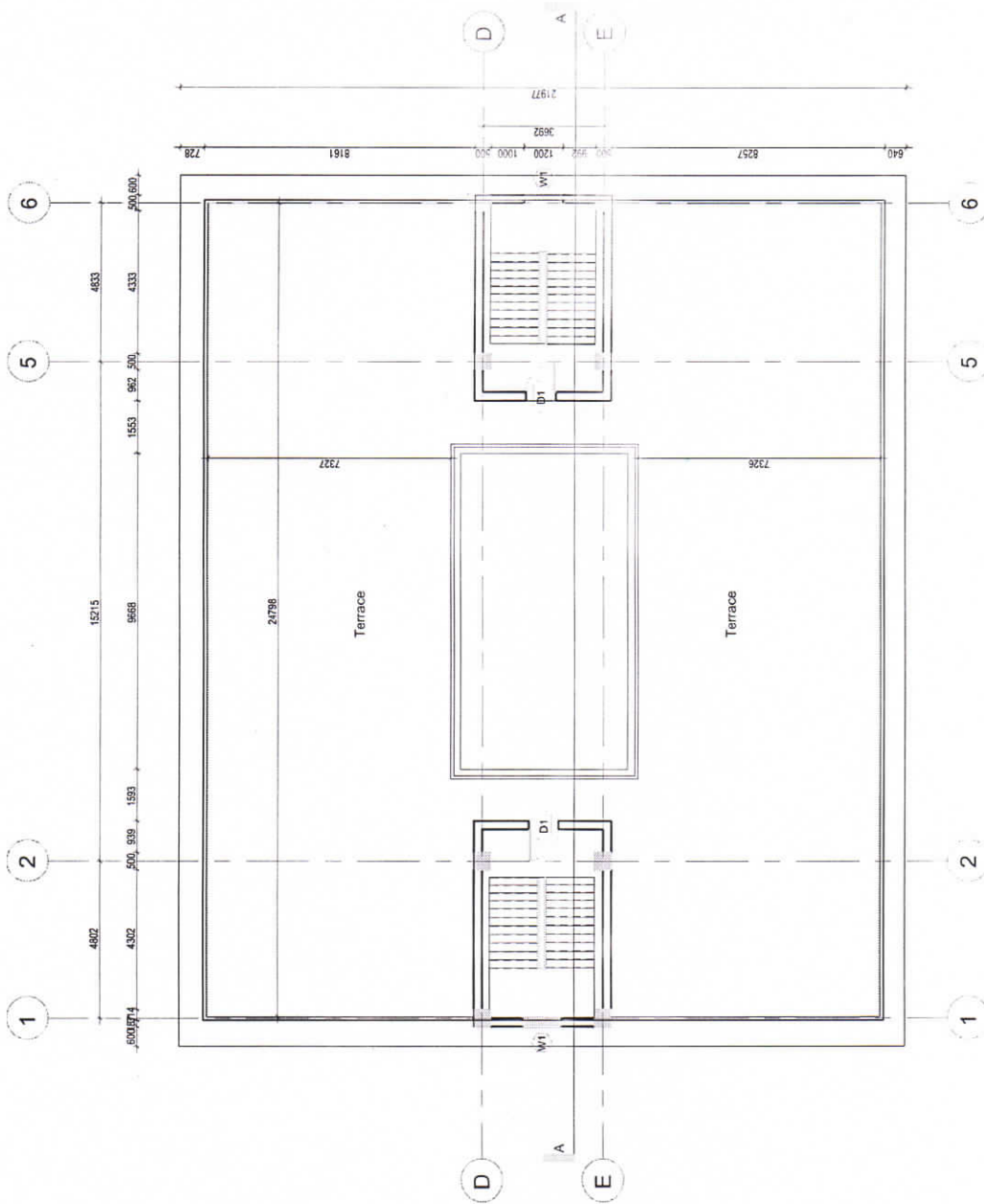


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SUBMITTED TO  Ministry of Social Development Kapilvastu Multiple Campus Taubhawa, Kapilvastu, Province no. 5, Nepal	SUBMITTED BY  Everest Engineering Consultant P.O. Box: 19103, Manadabaham Margu Mid-Baneshwar, Kathmandu Tel: 01-4481443; Fax: 01-4481449 Email: everest_consulting@yahoo.com	Project Title : Preparation of DPR of Kapilvastu Multiple Campus, Taubhawa
		Sheet Title: Third Floor Plan Sheet No. AR/4 Checked By : E. Ujjwal Das Designed By : A. K. Choudhary Date : Dec 2019 Scale : 1:150 Drawn by : E. Ujjwal

NOTE:

1. All dimension are in mm or otherwise as stated.
2. Drawings to be read only in conjunction with the specifications.
3. All dimensions are to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy in dimensions is found in drawings as per site condition.
5. All dimensions are to be read in conjunction with the property of consultant.
6. Sill and Lintel dimensions are to be read from the slab I/L.
7. Dimensions are excluding the plaster/POP thickness.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500



FOURTH FLOOR PLAN

SUBMITTED TO



Ministry of Social Development
Kaptiwa Multiple Campus
 Takkhara, Kaptiwa
 Province no. 5, Nepal

SUBMITTED BY



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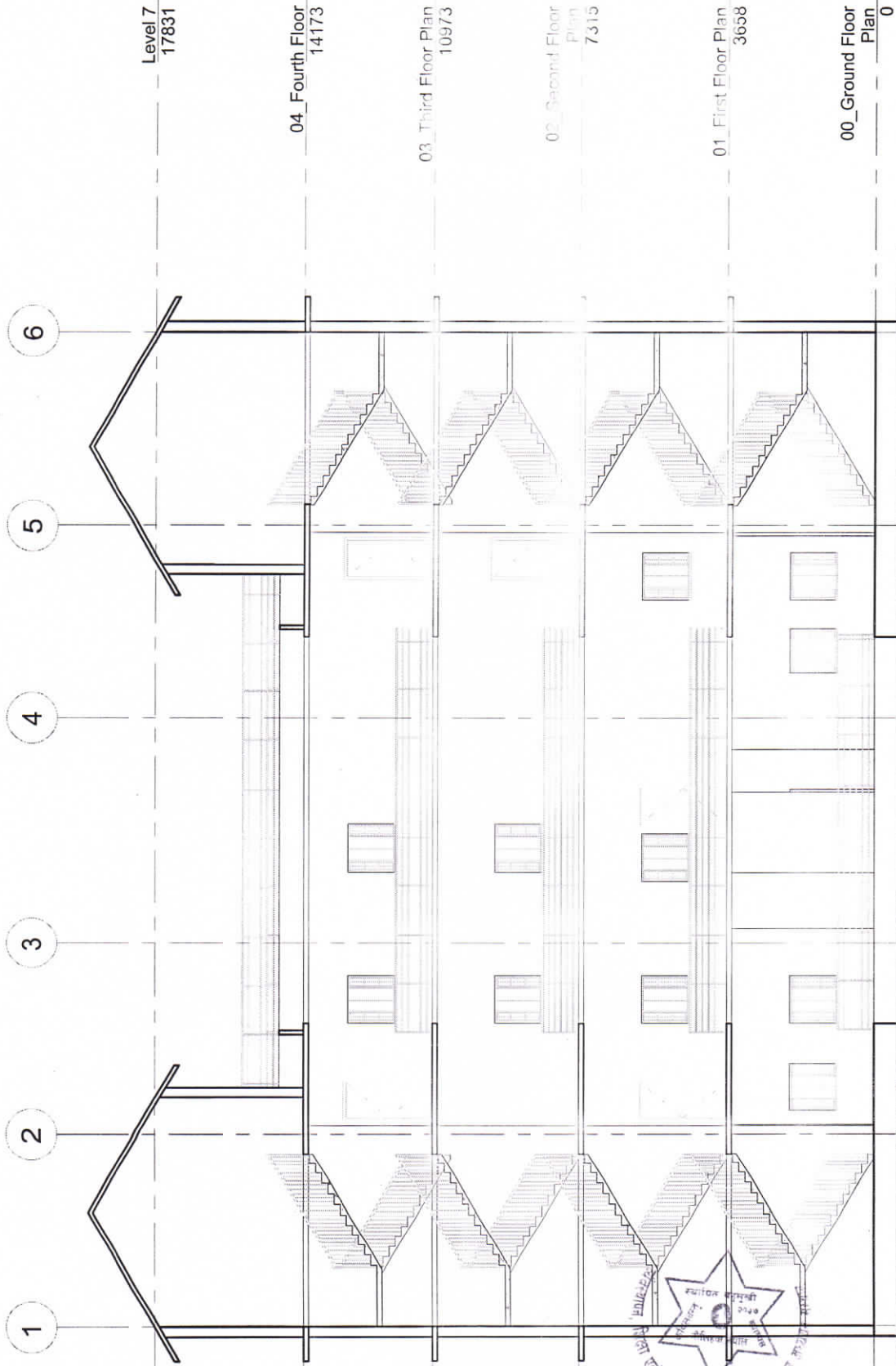
Project Title : Preparation of DPR of Kaptiwa Multiple Campus, Tullabans		Sheet No.
Sheet Title : Fourth Floor Plan		Date :
Checked By : En. Arjun Dev Y.	Designed By : Arjun Chandra	Date : Dec 2019
Drawn By : En. Umesh	Scale : 1:150	AR/5



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NOTES:

1. All dimension are in mm or otherwise as stated.
2. Drawings to be read only.
3. Architectural drawings to be read in conjunction with structural drawings.
4. Site engineers to notify the consultant if any discrepancy in dimensions is found in drawings as per site condition.
5. Drawings remain property of consultant.
6. Sill and Lintel dimensions are measured from the slab top.
7. Dimensions are excluding the plaster/DPC thickness.
8. Slab - Beam (M25), Slab (M20), Flooring (M20).
9. Column M25.
10. Steel Grade - Fe 500



SECTION AT A-A

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SUBMITTED TO



Ministry of Social Development
Kapilvastu Multiple Campus
 Taulihawa, Kapilvastu
 Province no. 5, Nepal

SUBMITTED BY



Everest Engineering Consultant
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 E-mail: everest_consultant@yahoo.com

Project Title : Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa		Sheet No.
Sheet Title : Section	Checked by : E. Anish Dev Y.	AR/6
	Designed by : A. Anjan Chandra	Date : Dec 2019
	Drawn by : E. Anish	Scale : 1:150

- NOTES:
1. All dimension are in mm or otherwise as stated.
 2. Drawings to be read only.
 3. Architectural drawings to be read in conjunction with structural drawings.
 4. Site engineer to notify the consultant if any discrepancy in dimensions is found in drawings as per site condition.
 5. Drawings remain property of consultant.
 6. Sill and Lintel dimensions are measured from the slab W.L.
 7. Concrete Grade - Beam M25, Slab M20, Felling M25, Column M25
 8. Steel Grade - Fe 500



SUBMITTED TO

Ministry of Social Development
Kapilvastu Multiple Campus
 Taulihawa, Kapilvastu
 Province no. 5, Nepal

SUBMITTED BY

Everest Engineering Consultant
 P.O.Box: 19103, Mahaveerham Margya
 Mid-Baneshwar, Kathmandu
 Tel: 01-4481449, Fax: 01-4481449
 E-mail: everest_consultant@yahoo.com

Project Title : Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa		Sheet No.
Sheet Title: Elevation	Checked by : Er. Anshu Dev. X.	AR/7
	Designed by : Manoj Chandrajal	Date : Dec 2019
	Drawn by : Er. Umesh	Scale : 1:150

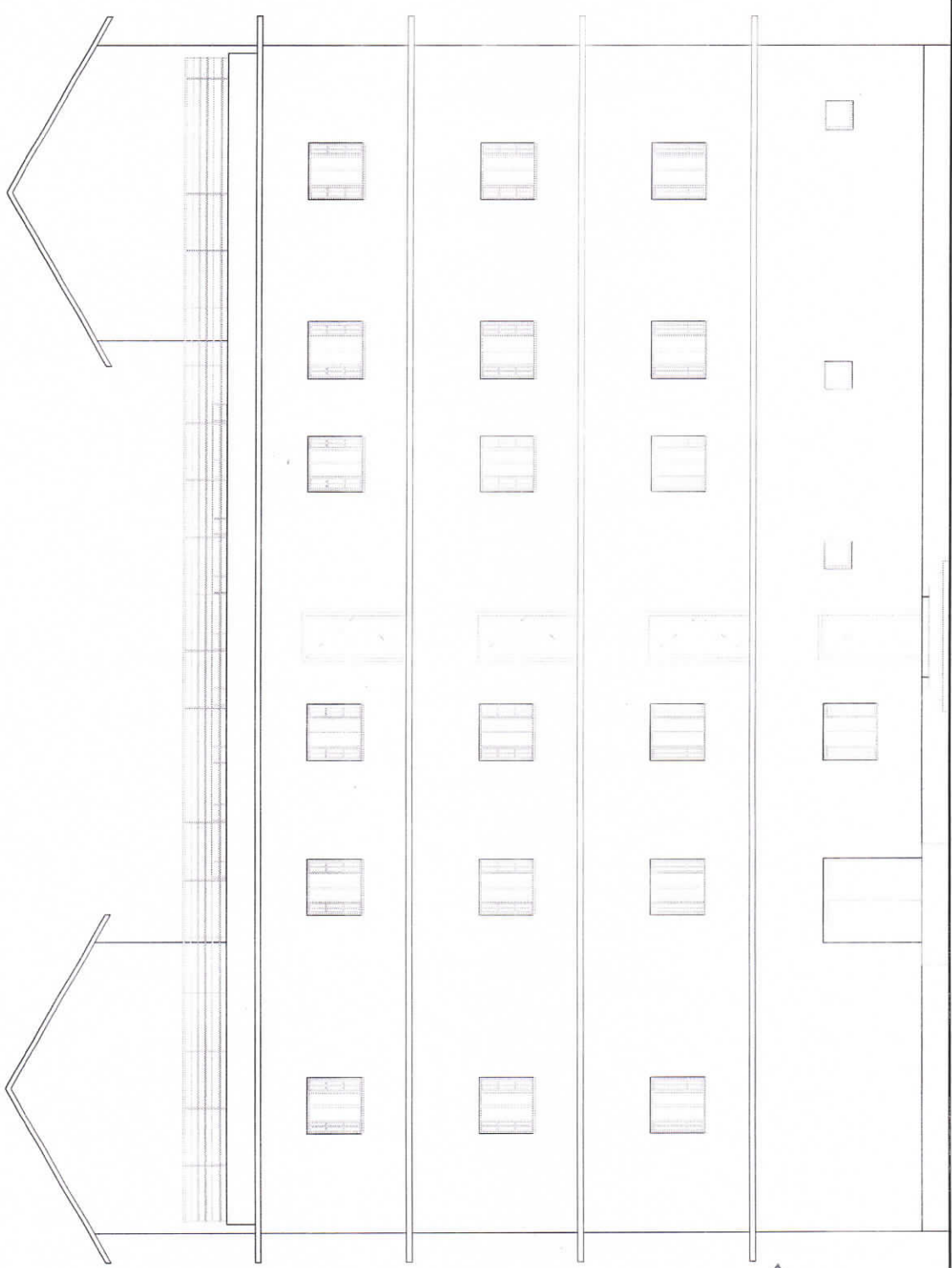
RIGHT SIDE ELEVATION



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NOTES:

1. All dimension are in mm or otherwise as stated.
2. Drawings to be read only in conjunction with the contract documents.
3. All drawings are to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy in dimensions is found in drawings as per site condition.
5. Drawings remain property of consultant.
6. All dimensions are measured from the slab ht. and not from the ground level.
7. Dimensions are as per the approved DPR.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500



SUBMITTED TO

Ministry of Social Development
Kapilvastu Multiple Campus
 Taulihawa, Kapilvastu
 Province no. 5, Nepal



SUBMITTED BY

Everest Engineering Consultant
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Project Title - Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Sheet Title: Elevation	Sheet No. AR/8
Checked by: E. Umesha Dev V.	Date: Dec. 2019
Designed by: J. Anjan Chandra	Scale: 1:150
Drawn by: E. Umesha	

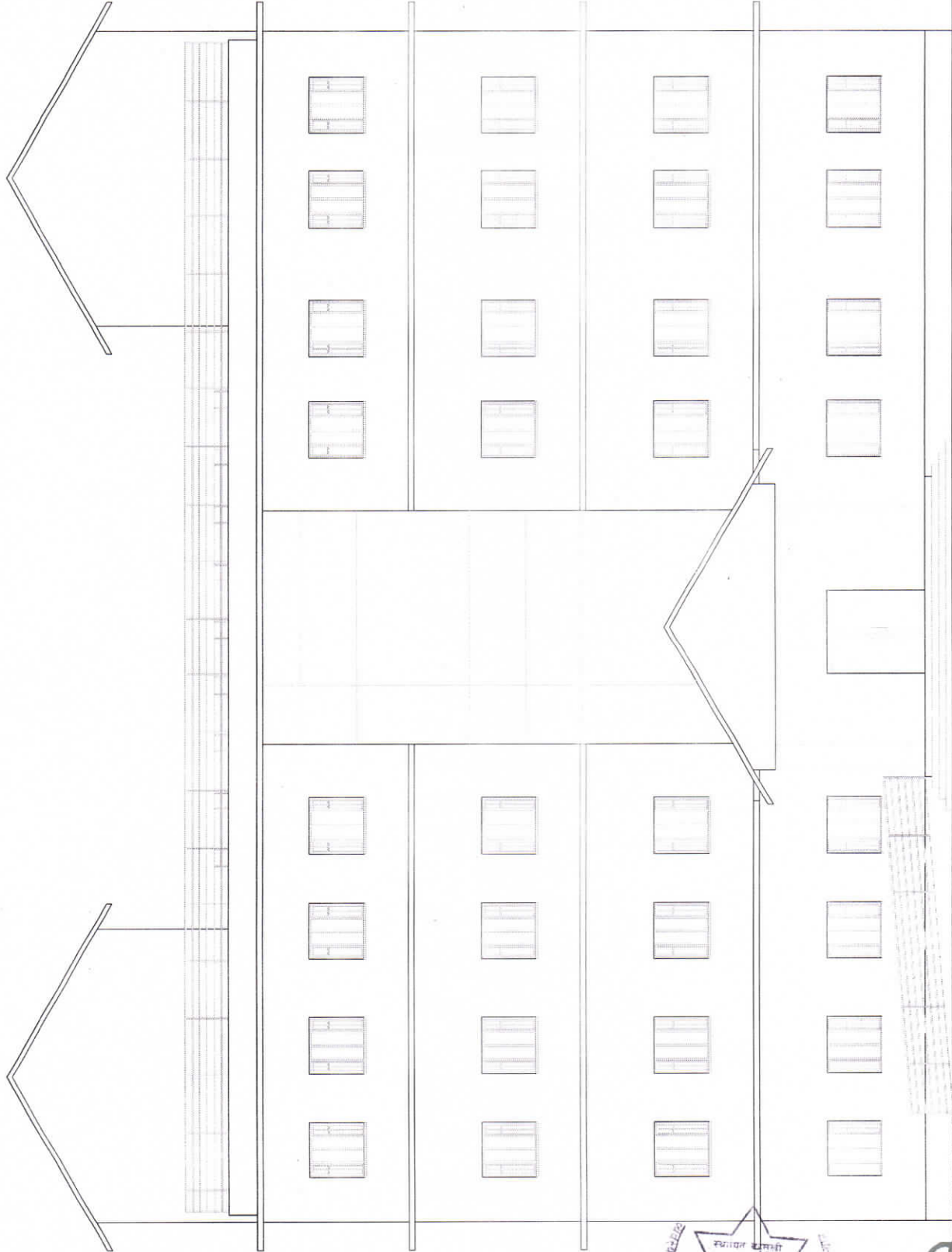
BACK ELEVATION



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NOTES:

1. All dimensions are in mm or otherwise as stated.
2. Drawings to be read in conjunction with the specifications.
3. Architectural drawings to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy is observed on site.
5. Drawings remain property of consultant.
6. Sill and Lintel dimensions are measured from the slab lvl.
7. Dimensions are excluding the plaster/POP thickness.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500



FRONT ELEVATION

SUBMITTED TO

Ministry of Social Development
Kapilvastu Multiple Campus
 Tauhawa, Kapilvastu
 Province no. 5, Nepal



SUBMITTED BY

Everest Engineering Consultant
 P.O.Box: 19100, Mahabanshan Marg
 Kapilvastu, Palpa District
 Tel: 01-4481449, Fax: 01-4481449
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Project Title : Preparation of DPR of Kapilvastu
 Multiple Campus, Tauhawa

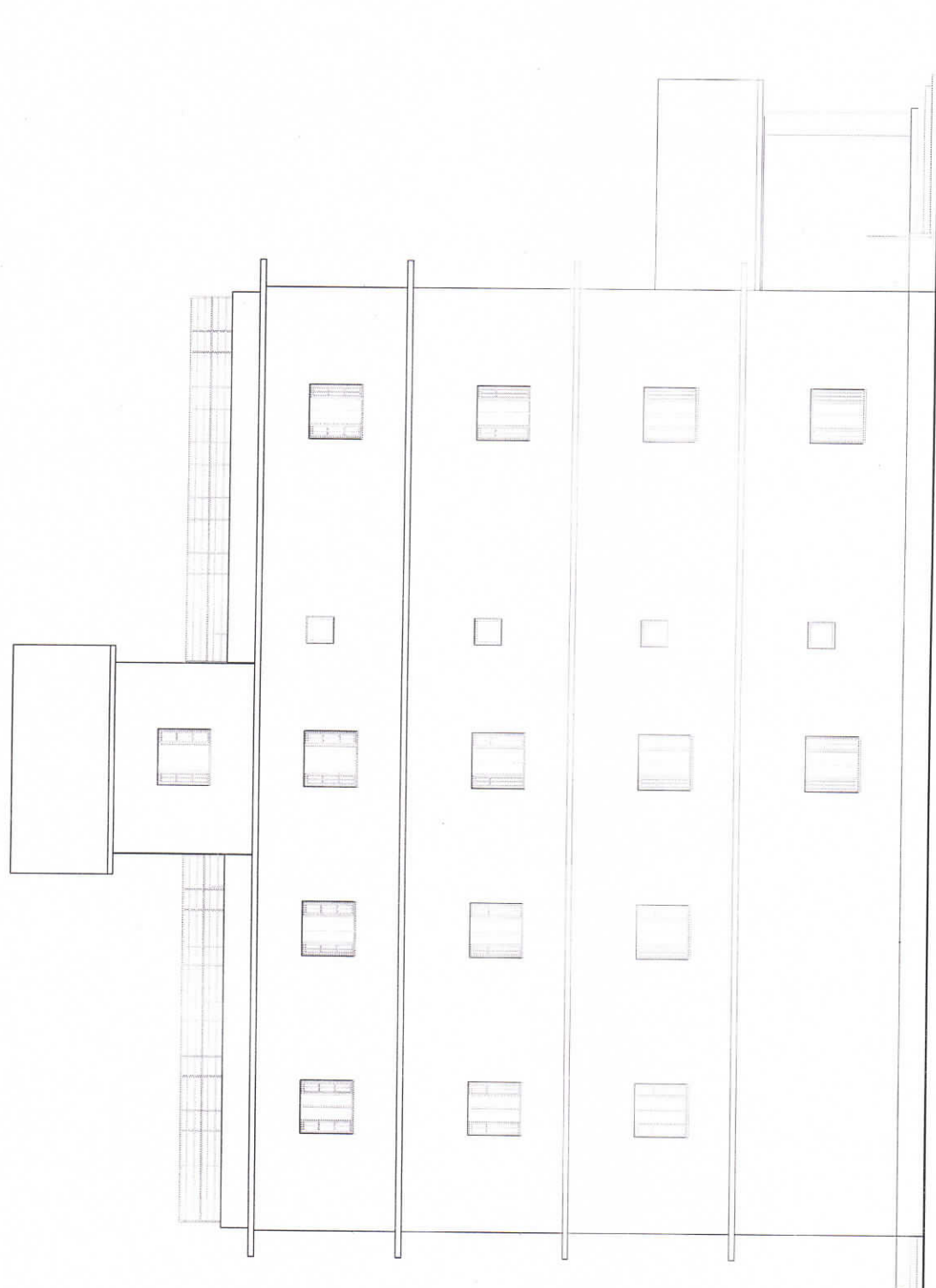
Sheet Title: Elevation	Sheet No.
Checked By : Mr. Anoop Chandra	Date : Dec 2019
Designed By : Mr. Anoop Chandra	Scale : 1:150
Drawn By : E.P. Umesh	AR/9



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NOTES:

1. All dimensions are in mm or otherwise as stated.
2. Drawings to be read only.
3. Architectural drawings to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy in the drawings is observed at the site condition.
5. Drawings remain property of consultant.
6. Sill and Lintel dimensions are measured from the slab top.
7. Dimensions are excluding the plaster/POP thickness.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500



LEFT SIDE ELEVATION

SUBMITTED TO



Ministry of Social Development
Kapiwastu Multiple Campus
 Taulihawa, Kapiwastu
 Province no. 5, Nepal

SUBMITTED BY



Everest Engineering Consultant
 P.O. Box: 19103, Mahabubnagar Marg
 Kathmandu, Nepal
 Tel: 01-4481448, Fax: 01-4481449
 Email: everest_consultant@yahoo.com

Project Title : Preparation of DPR of Kapiwastu Multiple Campus, Taulihawa

Sheet Title : Elevation	Sheet No. : AR/10
Checked by : E. Kishor Devy	Date : Dec 2019
Designed by : Akshay Chandra	Scale : 1:150
Drawn by : B. Umesh	



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NOTES:

1. All dimension are in mm or otherwise as stated.
2. All dimensions are to be taken from the center line of road.
3. Architectural drawings to be read in conjunction with structural, sanitary and electrical drawings.
4. Site engineer to notify the consultant if any discrepancy in dimensions is found in drawings as per site condition.
5. All dimensions are to be taken from the center line of road.
6. Sill and Lintel dimensions are measured from the slab l/c.
7. Dimensions are excluding the plaster/POP thickness.
8. Concrete Grade - Beam M25, Slab M20, Footing M25, Column M25
9. Steel Grade - Fe 500

SUBMITTED TO

Ministry of Social Development
 Kapilwastu Multiple Campus
 Tauliawa, Kailashwari
 Province no. 5, Nepal

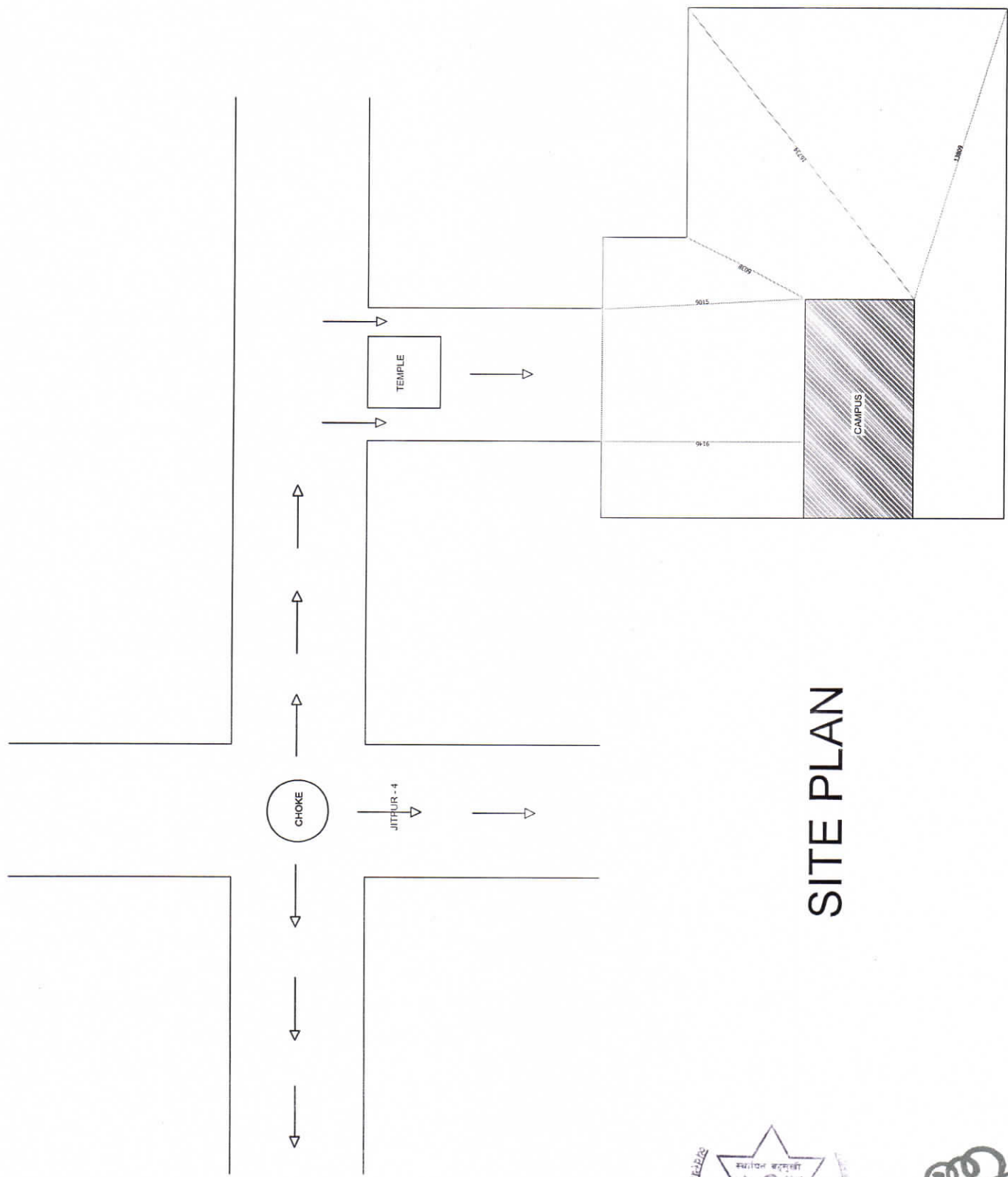


SUBMITTED BY

Everest Engineering Consultant
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Project Title : Preparation of DPR of Kapilwastu Multiple Campus, Tauliawa	
Sheet Title: SITE PLAN	Sheet No.
Checked by : Er. Anshu Dev P.	Date : Dec 2019
Designed by : Anshu Chandra P.	Scale : 1:150
Drawn by : Er. Unish	SP



SITE PLAN



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जननी जन्मभूमिश्च स्वर्गादपि गरीयसी



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Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

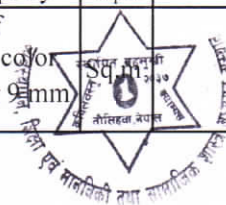
Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

RATES for 2073-74 without VAT				
S.N.	Items	Unit	Contr.	Dept.
Civil Works				
1	Site Clearance (uprooting of grasses, cutting of Soil heaps/removing)	sqm	19.54	16.99
2	E/W in excavation. : Using Machine (BM Soil)	Cu.m	82.31	71.57
3	E/W in excavation. : Manual	Cu.m	488.01	424.36
4	Earth backfilling - compaction work	Cu.m	305.01	265.22
5	Earth filling (Borrowed Soil) - compaction work	cu.m.	7462.45	6489.08
6	Flat Brick Soling (Second Class Brick)	sqm	713.79	620.68
7	P.C.C. - 1:3:6, Crushed aggregate	Cum	7304.01	6351.31
8	P.C.C. - 1:2:4 - crushed aggregate	Cum	8908.99	7746.95
9	PPC for RCC (1:1.5:3) - crushed aggregate	Cum	10401.75	9045.00
10	PPC for RCC (1:1:2) - crushed aggregate	cu.m.	14237.22	12380.18
11	Reinforcement work for R.C.C.	MT	122820.00	106800.00
12	19mm Plywood Post for Columns/Shear Walls/Foundation	Sq.m	518.08	450.50
13	19mm Plywood Form work for slab/Staircase	Sq.m	609.69	530.16
14	Plywood Form work for Beam/Lintel/Sill	Sq.m	787.98	685.19
15	Brick work in c.m. - 1:6 (Below GF)	Cum	12414.46	10795.18
16	Brick work in c.m. - 1:6 Ground Floor	Cum	12614.36	10969.01
17	Brick work in c.m. - 1:6 above GF	Cum	12919.4	11234.23
18	Half Brick Wall (1:4 C/M)	Sq.m	1487.86	1293.79
19	1/2" cement plaster in Interior/external ceilling- 1:4	Sq.m	371.86	323.35
20	1/2" cement plaster in Exterior ceilling- 1:4	Sq.m	371.86	323.35
21	3/4" cement plaster in Walls interior/external - 1:6	Sq.m	358.14	311.42
22	3/4" cement plaster in Walls Exterior (1:6 C/M)	Sq.m	358.14	311.42
23	3/4" Slab Boarder Band (1:3 C/M)	Rm	156.14	135.77
24	Tile Design over Slab using 1:3 Cement Mortar	Sq.m	6931.96	6027.79
25	1.5" floor Screeding works (1:2:4)	sqm	524.49	456.08
26	3mm thick net cement punning	sqm	240.24	208.90
27	Marble flooring and finishing	sqm	3764.99	3273.90
28	Marble nozing on staircase	R.m	422.91	367.75
29	16mm thick Granite Clading and finishing	sqm	7445.21	6474.09
30	Ceramics non-glazed floor tiles (Cm-1:4)	sqm	2587.14	2249.68
31	Ceramic glazed tile for walls(Cm-1:4)	sqm	2432.33	2115.07
32	Ceramic Non Glazed Tile Skirting works (Height =100mm)	Rm	323.99	281.73
33	Saal Wood Frames	Cu.m	100047.20	86997.56
34	Saal Wooden panned shutters	Sq.m	8661.96	7532.14
35	Fixing 4mm thick Glasses in Ventilation	Sq.m	1253.66	1090.14
36	Readymade Enamel Painting Works	Sq.m	290.34	252.47
37	2 coats Washable distemper painting followed by wall putty	sqm	269.63	234.45
38	2 coats of Weather Coat painting (External) followed by wall putty	sqm	429.93	373.85
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102×45×1.5 mm) fitted with 5 mm clear glass or 9mm	Sqm	7612.77	6619.80

Prepared by: side laminated board

Checked by:

Approved by:



40	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	Sq.m	6436.81	5597.23
41	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	Sq.m	7612.77	6619.80
42	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	Sq.m	69261.96	60227.79
42	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	Sq.m	4641.94	4036.47
43	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	Sq.m	3395.66	2952.75

Prepared by:

Checked by:



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Approved by:

Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

TRANSPORTATION OF CONSTRUCTION MATERIALS BY TRUCK

Truck rent per hour(6 mt/ 150 HP) according to heavy equipment Division office		450.00
i) Fuel and lubrication cost		
H.S. Diesel (5.5 lt. * unit rate)	...	539.00
Mobil (0.1 lt * unit rate)	...	
Gear oil (0.03 lt. * unit rate)	...	
Grease (0.015 lt. * unit rate)	...	
Sub total of i		539.00
Grand Total (E)		989.00

TRANSPORTATION COST AT CONSTRUCTION FOR FY 2073/74

Speed of truck , km/hr.(S)	...	40.00
Time per trip by truck = (2*distance/speed + loading & unloading time)		
Loading and unloading time = 0.75 trt time		
For hauling average distance 1 km, hrs		0.80
" " 5 km, hrs		1.00
" " 10 km, hrs		1.25
" " 15 km, hrs		1.50
" " 20 km, hrs		1.75
" " 25 km, hrs		2.00

1. BRICKS

Time (T), hrs	0.75	
Distance average, km	0.00	
Load unloading coefficient, K	FALSE	
Capacity of truck per trip, nos. of bricks	2400.00	
Transportation cost	741.75	
For 1000 nos. of bricks (F26/2400*1000)	309.06	309.06
Load. & unload. cost (K*unskill. labour wage/day*1000/2400)		0.00
Transportation Per unit brick		0.30

2. BRICKS second class

Time (T), hrs	0.75	
Distance average, km	0.00	
Load unloading coefficient, K	FALSE	
Capacity of truck per trip, nos. of bricks	2400.00	
Transportation cost	741.75	
For 1000 nos. of bricks (F26/2400*1000)	309.06	309.06
Load. & unload. cost (K*unskill. labour wage/day*1000/2400)		0.00
Per unit brick		0.30

2. STONE

Time (T), hrs (2*Distance Ave/40+0.75)	1.80	
Distance average , km	21.00	
Loading/unloading labour coefficient, K	1.142	
Capacity of truck per trip, cu.m.	3.50	
Transportation cost (E*T)	1780.20	
For 1cu.m. (E*T/3.5)		508.62
Load. & unload. cost (K*unskill. labour wage/3.5)		168.03



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Transportation Per 1 cu.m. of Stone 676.65

3. CEMENT

Time (T), hrs($2 \times 2/40 + 0.75$)	1.10	
Distance average , km	7.00	
Load unloading coefficient, K	0.498	
Capacity of truck per trip, m.t.	5.00	
Transportation cost (E*T)	1087.90	
For 1m.t. (E*T/capacity)		217.58
Loading & unloading cost (K*unskilled labour wages/capacity)		51.29
Transportation of Cement Per m.t.		268.87



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4. IRON ROD

Time (T), hrs	1.10	
Distance average, km	7.00	
Load unloading coefficient, K	0.498	
Truck capacity per trip, m.t.	5.00	
Transportation cost (E*T)	1087.90	
For 1m.t. (E*T/capacity)		217.58
Loading & unloading cost (K*unskilled labour wages/capacity)		51.29
Transportation of Iron rod Per m.t.		268.87

7. Sand

Time (T), hrs	1.80	
Distance average, km	21.00	
Loading/unloading labour coefficient, K	1.063	
Capacity of truck per trip, cu.m.	5.38	
Transportation cost (E*T)	1780.20	
For 1cu.m. (E*T/capacity)		330.89
Load. & unload. cost (K*unskill. labour wage/capacity)		101.75
Transportation cost of Sand per cu.m		432.64

8. Mud

Time (T), hrs	0.80	
Distance average, km	1.00	
Loading/unloading labour coefficient, K	0.204	
Capacity of truck per trip, cu.m.	5.38	
Transportation cost (E*T)	791.20	
For 1cu.m. (E*T/capacity)		147.06
Load. & unload. cost (K*unskill. labour wage/capacity)		19.52
Transportation cost of soil per cu.m		166.58

8. Crushed Aggregate 10 mm

Time (T), hrs	2.50	
Distance average, km	35.00	
Loading/unloading labour coefficient, K	1.786	
Capacity of truck per trip, cu.m.	5.79	
Transportation cost (E*T)	2472.50	
For 1cu.m. (E*T/capacity)		427.02
Load. & unload. cost (K*unskill. labour wage/capacity)		158.85
Transportation Cost of Aggregate per cu.m		585.87



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Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

RATES for 2075-76

Sn	Description	Unit	District Rate	Transportation	Total Rate	Remarks
A. APPROVED LABOUR RATE						
1	Skilled	m.d.	750.00		750.00	
2	Semiskilled	m.d.	540.00		540.00	
3	Unskilled	m.d.	515.00		515.00	
B. APPR. CONS.MATERIAL RATE						
1	M Brick1	no.	14.48	0.3	14.78	Machine made
2	C Brick1	no.	12.50	0.3	12.80	Chimney made
3	C Brick2	no.	10.90	0.3	11.20	Chimney made
4	agg_10	cum	593.00	585.87	1178.87	Crush Aggregate
5	agg_20	cum	593.00	585.87	1178.87	Crush Aggregate
6	agg_40	cum	593.00	585.87	1178.87	Crush Aggregate
7	Soil	Cum	3982.66	166.58	4149.24	1.43*unskilled
8	Sand	Cum	430.56	432.64	863.20	
9	Cement	m.t.	15220.00	268.87	15488.87	OPC Hetauda Cement
10	White Cement	m.t.	39000.00	268.87	39268.87	
11	rod	m.t.	86000.00	268.87	86268.87	M.s rod avg.(20% 8mm and 80% other)
12	b.wire	Kg	103.50	0.26887	103.77	Binding Wire
13	Iron Prop	no.	1940.00	67.9	2007.90	
C. APPR. WOOD ITEM RATES						
1	Wood	m3	10763.96	376.738565	11140.70	Local Wood
2	Saal Wood	m3	50590.61	1770.671315	52361.28	
3	Ply 19	m2	742.71	25.99485	768.70	19mm Com. Plywood
D. APPR. MARBLE/TILE AND ACESOCERIES RATES						
1	Marble	m2	1291.66	45.2081	1336.87	
2	Granite	m2	4368.00	152.88	4520.88	
3	W. Tiles	m2	699.65	24.48775	724.14	
4	F. Tiles	m2	699.65	24.48775	724.14	
E. APPR. COLORING MATERIALS						
1	Terpentine	Ltr	130.00		130.00	
2	Main polish	Kg	426.40		426.40	
3	Oxalic Acid	Kg	343.20		343.20	
4	Aster	Ltr	157.00		157.00	
5	PoP	Kg	30.00	1.05	31.05	
6	W. Putty	Kg	40.00	1.4	41.40	
7	Distemper	Kg	353.60		353.60	litre 217
8	Apex Coat	Kg	606.00		606.00	Weather Coat Paint
9	Enamel	Ltr.	600.00		600.00	
10	Primer	Ltr.	312.00		312.00	
E. APPR. DOOR/WINDOW ACESORIES						
1	Hinge	No.	65.00		65.00	6" in size
2	Handle	No.	550.00		550.00	8" Brass Handle
3	Lset_300	No.	1540.00		1540.00	300mm (Brass)
4	Tbolt_150	No.	284.00		284.00	Tower Bolt (150) Brass
5	Tbolt_300	No.	568.00		568.00	Tower Bolt (300) Brass
6	Glass_4	Sq.m	828.80		828.80	
7	Listy	Rm	25.00		25.00	
8	Nail	Kg	112.00		112.00	
9	screw	no.	1.20		1.20	
10	Holdfast	no.	21.43		21.43	7 no. per kg
F. ALUMINIUM WORKS FOR DOOR/WINDOW						
1	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102×45×1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	Sq.m	6619.80		6619.80	
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	Sq.m	5597.23		5597.23	
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	Sq.m	6619.80		6619.80	



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Providing and fixing Structural Glazing of aluminum section in natural or color anodized/powder coated color Section size (60x50+13x1.3 mm) fitted with 5 mm color glass. (average panel area 6.00 Sq.ft.)	Sq.m			60227.79	
Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	Sq.m	4036.47		4036.47	
G. MISCELLANEOUS ITEMS					
Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	Rm	2952.75		2952.75	
2" Pipe	Rm	524.93		524.93	
1" Pipe	Rm	262.46		262.46	
Tile Design over Slab with 1: 3 Cement Mortar	Sq.m	6027.79		6027.79	
H.Fuel/Water					
1 Diesel	litre	98.00		98.00	
2 Petrol	litre	109.00		109.00	
3 Water	litre	0.26		0.26	
I. EQUIPMENTS					
1 Truck rent per hour(6 mt/ 150 HP)	hr.	450		450.00	
2 Excavator	hr.	1800		1800.00	(PC 200 or 220)
3 Vibrator	hr.	100		100.00	
4 Mixer	hr.	1000		1000.00	



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Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Haulage Distance for Construction Materials

S.N.	Materials	Place of Availability	Average Distance			Average Speed Km/h			Equivalent BT Distance, Km
			BT	GV	ET	ET	GV	ET	
1	Cement		1	1	1	40	20	10	7
2	Rod		1	1	1	40	20	10	7
3	Soil		1	0	0	40	20	10	1
4	Brick		0	0	0	40	20	10	0
5	Aggregate		5	5	5	40	20	10	35
6	Sand		3	3	3	40	20	10	21
7	Stone		3	3	3	40	20	10	21
8	Wood		3	3	3	40	20	10	21

Distance is according to Market Monitoring

Note: BT: Black top Road
GV: Graveled Road
ET: Earthen Road

Equivalent distance of Black top road for Earthen Road = distance in earthen road/average speed in earthen Road*Average speed in Blacktop Road
Equivalent distance of Black top road for Gravel Road = distance in Gravel road/average speed in Gravel Road*Average speed in Blacktop Road



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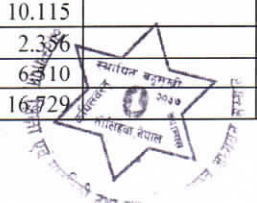
Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

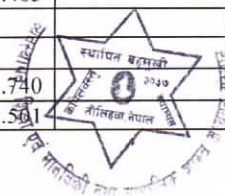
Quantity Estimate of Finishing Works

S.N.	Description	No.	Length	Breadth	Height	Qty.	Unit	Remarks
1	1.5" Thick Screeding works							
	<u>Ground Floor</u>							
		1	Area =	89.458		89.458		
		1	Area =	14.725		14.725		
		1	Area =	17.003		17.003		
		1	Area =	27.387		27.387		
		1	Area =	10.524		10.524		
		1	Area =	22.431		22.431		
		1	Area =	13.180		13.180		
		1	Area =	19.572		19.572		
		1	Area =	12.440		12.440		
		1	Area =	16.736		16.736		
		1	Area =	16.157		16.157		
		1	Area =	19.907		19.907		
		1	Area =	10.785		10.785		
		1	Area =	8.758		8.758		
		1	Area =	4.376		4.376		
		1	Area =	13.159		13.159		
		3	Area =	1.437		4.310		
		1	Area =	7.243		7.243		
		3	Area =	1.437		4.311		
		1	Area =	7.308		7.308		
		2	4.450	0.300		2.670		
		1	Area =	12.953		12.953		
		1	Area =	98.900		98.900		
						454.291	sqm	
	<u>First Floor</u>							
		1	Area =	54.686		54.686		
		1	Area =	31.740		31.740		
		1	Area =	12.501		12.501		
		1	Area =	23.120		23.120		
		1	Area =	10.115		10.115		
		1	Area =	2.356		2.356		
		1	Area =	6.510		6.510		
		1	Area =	38.779		38.779		
		1	Area =	37.938		37.938		
		1	Area =	13.105		13.105		
		1	Area =	47.590		47.590		
		1	Area =	15.483		15.483		
		1	Area =	13.159		13.159		
		3	Area =	1.437		4.310		
		1	Area =	7.243		7.243		
		3	Area =	1.437		4.311		
		1	Area =	14.801		14.801		
						337.745	sqm	
	<u>Second Floor</u>							
		1	Area =	56.408		56.408		
		1	Area =	31.740		31.740		
		1	Area =	12.501		12.501		
		1	Area =	23.120		23.120		
		1	Area =	10.115		10.115		
		1	Area =	2.356		2.356		
		1	Area =	6.510		6.510		
		1	Area =	16.729		16.729		



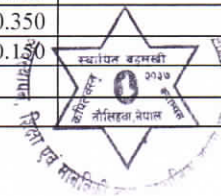
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		1	Area =	15.935		15.935		
		1	Area =	45.042		45.042		
		1	Area =	14.324		14.324		
		1	Area =	23.161		23.161		
		1	Area =	12.757		12.757		
		1	Area =	2.455		2.455		
		1	Area =	13.159		13.159		
		3	Area =	1.437		4.310		
		1	Area =	7.243		7.243		
		3	Area =	1.437		4.311		
		1	Area =	14.801		14.801		
						316.975	sqm	
	<u>Third Floor</u>							
		1	Area =	25.322		25.322		
		1	Area =	87.323		87.323		
		1	Area =	15.789		15.789		
		1	Area =	28.615		28.615		
		1	Area =	26.538		26.538		
		1	Area =	28.560		28.560		
		1	Area =	13.159		13.159		
		3	Area =	1.437		4.310		
		1	Area =	7.243		7.243		
		3	Area =	1.437		4.311		
		1	Area =	14.801		14.801		
		2	Area =	15.192		30.384		
		2	Area =	24.658		49.317		
						335.671	sqm	
	<u>Fourth Floor</u>							
		1	Area =	16.437		16.437		
		1	Area =	28.725		28.725		
		1	Area =	104.496		104.496		
		1	Area =	104.496		104.496		
		1	15.220	4.220		64.228		
						318.383	sqm	
					TOTAL	1,763.064	sqm	
2	3mm Thick Punning							
	<u>Ground Floor</u>							
		1	Area =	17.003		17.003		
		1	Area =	27.387		27.387		
		1	Area =	10.524		10.524		
		1	Area =	22.431		22.431		
		1	Area =	13.180		13.180		
		1	Area =	19.572		19.572		
		1	Area =	12.440		12.440		
		1	Area =	16.736		16.736		
		1	Area =	16.157		16.157		
		1	Area =	19.907		19.907		
		1	Area =	10.785		10.785		
		1	Area =	8.758		8.758		
						194.878	sqm	
	<u>First Floor</u>							
		1	Area =	31.740		31.740		
		1	Area =	12.501		12.501		
		1	Area =	23.120		23.120		
		1	Area =	10.115		10.115		
		1	Area =	38.779		38.779		
		1	Area =	37.938		37.938		
		1	Area =	13.105		13.105		
		1	Area =	47.590		47.590		
		1	Area =	15.483		15.483		
						230.370	sqm	
	<u>Second Floor</u>							
		1	Area =	31.740		31.740		
		1	Area =	12.501		12.501		



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		1	Area =	23.120		23.120		
		1	Area =	10.115		10.115		
		1	Area =	16.729		16.729		
		1	Area =	15.935		15.935		
		1	Area =	45.042		45.042		
		1	Area =	14.324		14.324		
		1	Area =	23.161		23.161		
		1	Area =	12.757		12.757		
						205.424	sqm	
	<u>Third Floor</u>							
		1	Area =	87.323		87.323		
		1	Area =	15.789		15.789		
		1	Area =	28.615		28.615		
		1	Area =	26.538		26.538		
		1	Area =	28.560		28.560		
		2	Area =	15.192		30.384		
		2	Area =	24.658		49.317		
						266.525	sqm	
	<u>Fourth Floor</u>							
		1	Area =	16.437		16.437		
		1	Area =	28.725		28.725		
		1	Area =	104.496		104.496		
		1	Area =	104.496		104.496		
		1	15.220	4.220		64.228		
					TOTAL	1,215.579	sqm	
3	Marble works							
3.1	Marble flooring works							
	<u>Ground Floor</u>							
		1	Area =	89.458		89.458		
		1	Area =	14.725		14.725		
		1	Area =	7.308		7.308		
		2	4.500	0.325		2.925		
		3	4.450	0.200		2.670		
		18	1.724	0.325		10.083		
		20	1.698	0.170		5.773		
		1	Area =	5.567		5.567		
		1	13.147	0.125		1.643		
						140.153	sqm	
	<u>First Floor</u>							
		1	Area =	54.686		54.686		
		18	1.724	0.325		10.083		
		20	1.698	0.170		5.773		
		1	Area =	5.567		5.567		
		1	13.147	0.125		1.643		
						77.753	sqm	
	<u>Second Floor</u>							
		1	Area =	56.408		56.408		
		18	1.724	0.325		10.083		
		20	1.698	0.170		5.773		
		1	Area =	5.567		5.567		
		1	13.147	0.125		1.643		
						79.475	sqm	
	<u>Third Floor</u>							
		1	Area =	25.322		25.322		
		18	1.724	0.325		10.083		
		20	1.698	0.170		5.773		
		1	Area =	5.567		5.567		
		1	13.147	0.125		1.643		
		12	0.950	0.350		3.990		
		2	16.424	0.150		4.927		
						57.307	sqm	
	<u>Fourth Floor</u>							

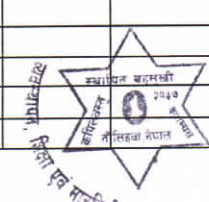


44

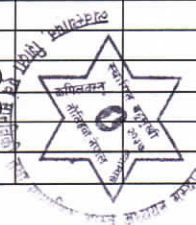
		1	Area =	16.437		16.437		
		16	0.950	0.350		5.320		
		2	24.020	0.150		7.206		
		8	0.950	0.350		2.660		
		1	39.390	0.150		5.909		
						37.532	sqm	
					TOTAL	392.218	sqm	
3.2	Marble Nosing works for Staircase steps							
	Ground Floor							
	Front Steps Riser	3	5.150			15.450		
	Staircase Treads	18	2.049			36.882		
	Landing	1	2.049			2.049		
						54.381	Rm	
	First Floor							
	Staircase Treads	18	2.049			36.882		
	Landing	1	2.049			2.049		
						38.931	Rm	
	Second Floor							
	Staircase Treads	18	2.049			36.882		
	Landing	1	2.049			2.049		
						38.931	Rm	
	Third Floor							
	Staircase Treads	18	2.049			36.882		
	Landing	1	2.049			2.049		
	Marble Slab over Parapet Monuments	12	2.600			31.200		
	Marble Slab over Parapet	2	16.424			32.849		
						102.980	Rm	
	Floor Floor							
	Marble Slab over Parapet Monuments	16	2.600			41.600		
	Marble Slab over Parapet	2	24.020			48.040		
	Marble Slab over Parapet Monuments (top Floor)	8	2.600			20.800		
	Marble Slab over Parapet (Top Floor)	1	39.390			39.390		
						149.830	Rm	
					TOTAL	385.053	Rm	
5	Granite Works							
	Ground Floor							
	Lift Front	1	Area =	3.845		3.845		
	Addition for Jamb	1	5.200		0.230	1.196		
						5.041	Sq.m	
	First Floor							
	Lift Front	1	Area =	3.845		3.845		
	Addition for Jamb	1	5.200		0.230	1.196		
						5.041	Sq.m	
	Second Floor							
	Lift Front	1	Area =	3.845		3.845		
	Addition for Jamb	1	5.200		0.230	1.196		
	Pantry Slab	1	4.800	0.600		2.880		
	Pantry Slab Support	3	0.150		0.750	0.338		
						8.258	Sq.m	
	Third Floor							
	Lift Front	1	Area =	3.845		3.845		
	Addition for Jamb	1	5.200		0.230	1.196		
						5.041	Sq.m	
					SUBTOTAL	23.381	Sq.m	



6	600 x 600 Glazed Ceramic Floor Tile						
	Ground Floor						
	Disabled Toilet	1	Area =	4.376		4.376	
	Male Wash Room	1	Area =	13.159		13.159	
	Male Toilets	3	Area =	1.437		4.310	
	Female Wash Room	1	Area =	7.243		7.243	
	Female Toilets	3	Area =	1.437		4.311	
						33.399	sqm
	First Floor						
	Deputy's Toilet	1	Area =	2.356		2.356	
	Disabled Toilet	1	Area =	4.376		4.376	
	Male Wash Room	1	Area =	13.159		13.159	
	Male Toilets	3	Area =	1.437		4.310	
	Female Wash Room	1	Area =	7.243		7.243	
	Female Toilets	3	Area =	1.437		4.311	
						35.754	sqm
	Second Floor						
	Chairman's Toilet	1	Area =	2.356		2.356	
	Disabled Toilet	1	Area =	4.376		4.376	
	Male Wash Room	1	Area =	13.159		13.159	
	Male Toilets	3	Area =	1.437		4.310	
	Female Wash Room	1	Area =	7.243		7.243	
	Female Toilets	3	Area =	1.437		4.311	
	Chief Admin's Toilet	1	Area =	2.455		2.455	
	Pantry Floor	1	Area =	13.501		13.501	
						51.711	sqm
	Third Floor						
	Male Wash Room	1	Area =	13.159		13.159	
	Male Toilets	3	Area =	1.437		4.310	
	Female Wash Room	1	Area =	7.243		7.243	
	Female Toilets	3	Area =	1.437		4.311	
						29.022	sqm
						149.886	sqm
					TOTAL		
7	Glazed Ceramic Wall tiles						
	Ground Floor						
	Disabled Toilet	1	7.727		1.800	13.909	
	Male Wash Room	1	13.365		1.800	24.057	
	Male Toilets	1	4.330		1.800	7.794	
		1	4.411		1.800	7.939	
		1	4.411		1.800	7.939	
	Female Wash Room	1	8.051		1.800	14.491	
	Female Toilets	1	3.680		1.800	6.624	
		1	4.429		1.800	7.971	
		1	4.418		1.800	7.952	
						98.675	sqm
	First Floor						
	Disabled Toilet	1	10.209		1.800	18.376	
	Male Wash Room	1	13.365		1.800	24.057	
	Male Toilets	1	4.330		1.800	7.794	
		1	4.411		1.800	7.939	
		1	4.411		1.800	7.939	
	Female Wash Room	1	8.051		1.800	14.491	
	Female Toilets	1	3.680		1.800	6.624	
		1	4.429		1.800	7.971	
		1	4.418		1.800	7.952	
	Deputy's Toilet	1	5.890		1.800	10.601	
						113.744	sqm
	Second Floor						
	Disabled Toilet	1	10.209		1.800	18.376	
	Male Wash Room	1	13.365		1.800	24.057	
	Male Toilets	1	4.330		1.800	7.794	
		1	4.411		1.800	7.939	
		1	4.411		1.800	7.939	
	Female Wash Room	1	8.051		1.800	14.491	



	Female Toilets	1	3.680		1.800	6.624		
		1	4.429		1.800	7.971		
		1	4.418		1.800	7.952		
	Chairman's Toilet	1	5.890		1.800	10.601		
	Chief Admin's Toilet	1	6.007		1.800	10.812		
	Pantry	1	4.178		0.750	3.133		
						127.689	sqm	
	Third Floor							
	Male Wash Room	1	13.365		1.800	24.057		
	Male Toilets	1	4.330		1.800	7.794		
		1	4.411		1.800	7.939		
		1	4.411		1.800	7.939		
	Female Wash Room	1	8.051		1.800	14.491		
	Female Toilets	1	3.680		1.800	6.624		
		1	4.429		1.800	7.971		
		1	4.418		1.800	7.952		
						84.767	sqm	
					TOTAL	424.875	sqm	
9	Wood Works							
9.1.1	Wooden Frame for Main Door							
	Ground Floor							
	Door (MD)	1	18.600	0.125	0.100	0.233		
						0.233	Cu.m	
9.1.2	Wooden Pannel for Main Door							
	Door (D1.2)	2	1.000		2.300	4.600		
						4.600	sqm	
10	Enamel Painting Works							
	Wooden Frame for Main Door	1	18.600	0.450		8.370		
	Wooden Pannel for Main Door	2	2.000		2.300	9.200		
						17.570	Sq.m	
11	5 mm Glass Laying Works							
	Main Door (Top Ventilation)	2	1.350		0.500	1.350		
	Main Door (Side Ventilation)	4	0.350		1.080	1.512		
						2.862	sqm	
9	Alluminium Works							
9.1	Aluminium Doors							
9.1.1	Aluminium Half Pannel/Half Glazed Door							
	Ground Floor							
	Door (D1.2)	4	1.200		2.150	10.320		
	Door (D1)	8	1.000		2.150	17.200		
						27.520	sqm	
	First Floor							
	Door (D1.2)	6	1.200		2.150	15.480		
	Door (D1)	6	1.000		2.150	12.900		
						28.380	sqm	
	Second Floor							
	Door (D1.2)	6	1.200		2.150	15.480		
	Door (D1)	8	1.000		2.150	17.200		
	Door (D1.5)	0	1.500		2.250	-		
						32.680	sqm	
	Third Floor							
	Door (D1.2)	3	1.200		2.150	7.740		
	Door (D1)	7	1.000		2.150	15.050		
						22.790	sqm	
	Fourth Floor							
	Door (D1.2)	1	1.200		2.150	2.580		
	Door (D1)	2	1.000		2.150	4.300		
						6.880	sqm	
9.1.1	Aluminium Panned Door							
	Ground Floor							
	Door (D.75)	8	0.750		2.150	12.900		
	Door (D1a)	1	1.000		2.150	2.150		
						15.050	sqm	
	First Floor							



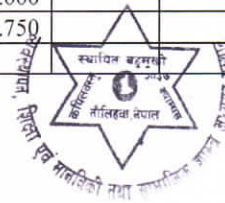
47

	Door (D.75)	10	0.750		2.150	16.125		
	Door (D1a)	1	1.000		2.150	2.150		
						18.275	sqm	
	Second Floor							
	Door (D.75)	10	0.750		2.150	16.125		
	Door (D1a)	1	1.000		2.150	2.150		
						18.275	sqm	
	Third Floor							
	Door (D.75)	7	0.750		2.150	11.288		
						11.288	sqm	
9.2	Aluminium Windows							
9.2.1	Aluminium Sliding Window with net							
	Ground Floor							
	Window (W1.5)	6	1.500		1.400	12.600		
	Window (W1.8)	9	1.800		1.400	22.680		
	Window (W.9)	4	0.900		1.400	5.040		
						40.320	sqm	
	First Floor							
	Window (W1.5)	6	1.500		1.400	12.600		
	Window (W1.8)	11	1.800		1.400	27.720		
	Window (W.9)	6	0.900		1.400	7.560		
						47.880	sqm	
	Second Floor							
	Window (W1.5)	6	1.500		1.400	12.600		
	Window (W1.8)	9	1.800		1.400	22.680		
	Window (W.9)	5	0.900		1.400	6.300		
						41.580	sqm	
	Third Floor							
	Window (W1.5)	7	1.500		1.400	14.700		
	Window (W1.8)	6	1.800		1.400	15.120		
	Window (W.9)	0	0.900		1.400	-		
						29.820	sqm	
	Fourth Floor							
	Window (W1.5)	4	1.500		1.400	8.400		
						8.400	sqm	
					TOTAL	168.000	sqm	
9.2.2	Aluminium Glazed paneled Window							
	Ground Floor							
	Window (W.6)	8	0.600		1.150	5.520		
	Ventilation (V.9)	3	0.900		0.450	1.215		
						6.735	sqm	
	First Floor							
	Window (W.6)	8	0.600		1.150	5.520		
	Ventilation (V.6)	1	0.600		0.450	0.270		
	Ventilation (V.9)	1	0.900		0.450	0.405		
						6.195	sqm	
	Second Floor							



0002

	Window (W.6)	10	0.600		1.150	6.900		
	Ventilation (V.6)	1	0.600		0.450	0.270		
	Ventilation (V.9)	1	0.900		0.450	0.405		
						7.575	sqm	
	Third Floor							
	Window (W.6)	8	0.600		1.150	5.520		
						5.520	sqm	
					TOTAL	26.025	sqm	
9.2.2	Aluminium Glazed Fixed Window							
	Ground Floor							
	Window (W6)	1	1.800		1.700	3.060		
	Window (W3)	1	3.000		-	-		
						3.060	sqm	
	First Floor							
	Window (W6)	1	1.800		3.400	6.120		
	Window (W3)	1	3.000		-	-		
						6.120	sqm	
	Second Floor							
	Window (W6)	1	1.800		3.400	6.120		
	Window (W3)	1	3.000		2.650	7.950		
						14.070	sqm	
	Third Floor							
	Window (W6)	1	1.800		3.400	6.120		
	Window (W3)	1	3.000		2.650	7.950		
						14.070	sqm	
	Fourth Floor							
	Window (W6)	1	1.800		3.275	5.895		
	Window (W3)	1	3.000		3.275	9.825		
						15.720	sqm	
					TOTAL	53.040	sqm	
9.3	Alluminium Partition							
	Ground Floor							
	Grid B2-C2	1	17.735		2.950	52.318		
	Grid C2-D2	1	15.585		2.950	45.976		
	Grid A2-B2 & A3-B3	1	4.030		3.275	13.198		
	Between B3C3 & B4C4	1	4.030		3.275	13.198		
	Grid C3-D3	1	2.550		2.950	7.523		
	Grid D3-D4	1	3.550		2.950	10.473		
	Grid D4-E4	1	3.550		2.950	10.473		
	Grid D5-E5	1	3.550		2.950	10.473		
	Grid D6-E6	1	3.550		2.950	10.473		
	Grid C7-D7	1	2.550		2.950	7.523		
	Grid C7-C8	1	3.050		2.950	8.998		
	Deduction for... ..							
	Door (D1.2)	-5	1.200		2.150	(12.900)		
	Door (D1)	-3	1.000		2.150	(6.450)		
						171.273	Sqm	
	First Floor							
	Grid C1-C2	1	3.050		2.950	8.998		
	Between C1D2 & C2D2	1	3.031		3.275	9.927		
	Grid A3-B3, B3-C3	2	3.550		2.950	20.945		
	Grid C3-D3	1	2.550		2.950	7.523		
	Grid B2-B3	1	3.550		2.950	10.473		
	Between Grid A3A4 & B3B4	1	4.070		3.275	13.329		
	Grid D3-D4, D4-D5, D5-D6	3	3.550		2.950	31.418		
	Between Grid D6-E6 & D7-E7	1	3.850		3.275	12.609		
	Grid C6-D6	1	2.550		2.950	7.523		
	Deduction for... ..							
	Door (D1.2)	-5	1.200		2.150	(12.900)		
	Door (D1)	-3	1.000		2.150	(6.450)		
	Door (D.75)	-2	0.750		2.150	(3.225)		
						100.167	Sqm	



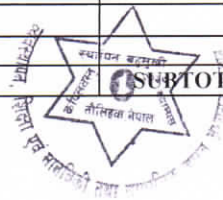
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	Second Floor							
	Grid C2-C3	1	3.050		2.950	8.998		
	Grid C2-D2, C3-D3, C6-D6	3	3.031		2.950	26.824		
	Between Grid B3-C3 & B4-C4	1	3.700		3.275	12.118		
	Grid D3 to D6	3	3.550		2.950	31.418		
	<i>Deduction for... ..</i>							
	Door (D1.2)	-4	1.200		2.150	(10.320)		
	Door (D1)	-3	1.000		2.150	(6.450)		
	Door (D.75)	-1	0.750		2.150	(1.613)		
						60.974	Sqm	
	Third Floor							
	Grid B6-C6, D2-D3	2	3.550		2.950	20.945		
	<i>Deduction for... ..</i>							
	Door (D1.2)	-1	1.200		2.150	(2.580)		
	Door (D1)	-1	1.000		2.150	(2.150)		
						16.215	Sqm	
					TOTAL	348.629	Sqm	
10	Painting							
10.1	Internal distemper paint along with POP							
	Ground Floor							
	Ceiling					356.1394013		
	Wall					829.1697		
	First Floor							
	Ceiling					363.881465		
	Wall					870.506825		
	Second Floor							
	Ceiling					354.445365		
	Wall					945.118325		
	Third Floor							
	Ceiling					277.59821		



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	Wall				626.03985		
	Fourth Floor						
	Ceiling				60.22575		
	Wall				102.74425		
					TOTAL	4785.869	sqm
10.2	External Water Proof painting						
	Ground Floor						
	Ceiling				67.1001		
	Wall				494.36155		
	First Floor						
	Ceiling				103.8474		
	Wall				268.9165		
	Second Floor						
	Ceiling				59.495		
	Wall				245.778		
	Third Floor						
	Ceiling				48.974		
	Wall				237.1785		
	Fourth Floor						
	Ceiling				31.65		
	Wall				235.6732578		
					TOTAL	1792.974	sqm
11	Slope Roofing Tiles Design Plaster						
	Ground Floor						
	Sloped Projection Slab	2	39.650	0.750	59.475		
					59.475	Sq.m	
	First Floor						
	Sloped Projection Slab	2	39.650	0.750	59.475		
	Sloped Roof Slab	2	7.170	3.000	43.020		
					102.495	Sq.m	
	Second Floor						
	Sloped Projection Slab	2	39.650	0.750	59.475		
					59.475	Sq.m	
	Third Floor						
	Sloped Projection Slab	2	32.650	0.750	48.975		
					48.975	Sq.m	
	Fourth Floor						
	Sloped Projection Slab	1	42.200	0.750	31.650		
					31.650	Sq.m	
					TOTAL	302.070	Sq.m
13	Staircase Railing						
	Ground Floor						
	Steps, Landing & Floor	1	7.640		7.640		
					7.640	rm	
	First Floor						
	Steps, Landing & Floor	1	7.640		7.640		
					7.640	rm	
	Second Floor						
	Steps, Landing & Floor	1	7.640		7.640		
					7.640	rm	
	Third Floor						
	Steps, Landing & Floor	1	7.640		7.640		
					7.640	rm	
					30.560	R.M.	
14	Parapet Railing						
	Third Floor						
	Terrace	2	22.440		44.880		
					44.880	rm	
	Fourth Floor						
	Terrace	2	31.456		62.911		
	Terrace Top	1	24.550		24.550		
					87.461	rm	
					SUBTOTAL	132.341	Rm



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15	Ramp Railing							
	Disabled Ramp	1	8.200			8.200		
	Vehicle Ramp	1	19.606			19.606		
						SUBTOTAL	27.806	R.M.
16	20mm thick Slab Boarder Band (1:4 C/M)							
	Ground Floor							
	Slab Boarder Band in Sloped Projection Slab Edge	2	40.85			81.699		
						81.699	Rm	
	First Floor							
	Slab Boarder Band in Sloped Projection Slab Edge	2	40.85			81.699		
	Porch Roof Slab Edge	1	19.63			19.630		
						101.329	Rm	
	Second Floor							
	Slab Boarder Band in Sloped Projection Slab Edge	2	40.85			81.699		
						81.699	sqm	
	Third Floor							
	Slab Boarder Band in Sloped Projection Slab Edge	2	33.85			67.699		
						67.699	Rm	
	Fourth Floor							
	Slab Boarder Band in Sloped Projection Slab Edge	1	22.30			22.300		
						22.300	Rm	
						SUBTOTAL	354.726	R.M.

16	37.50 mm Stone Paving Works over Ramps in 1:4 C/M							
	Ground Floor							
	Disabled Ramp	1	Area =	12.953		12.953		
	Vehicle Ramp	1	Area =	98.900		98.900		
						111.853	Sq.m	
						SUBTOTAL	111.853	Sq.m



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Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

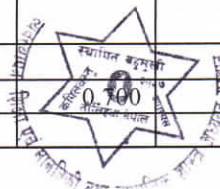
Quantity Estimate of Civil Works

S.N.	Description	No.	Length	Breadth	Height	Qty.	Unit	Remark
1	Site Preparation	1	Area =	650.000		650.000		
					SUBTOTAL	650.000	Sq.m	
2	Earth work in Excavation Ussing Machine							
	Column Raft Foundation at .. Foundation (F1)	1	Area =	656.45	2.675	1,756.004		
					Subtotal	1,756.004	Cu.m	
3	Earth Backfilling Work @ 60% of Excavation							
					Subtotal	1,053.602	Cu.m	
4	Earth Filling Work (Borrowed Soil)							
	Below Grids and Rooms	1	Area =	501.300	0.525	263.183		
					Subtotal	263.183	Cu.m	
5	Flat Brick Soling (Second Class Brick)							
5.1	<i>Upto Plinth Level</i> <u>Column Raft Foundation</u> <u>Rooms and Beams</u>	1	Same as Earthwork Base area			656.450		
	Between all Grids	1	Area =	539.900		539.900		
	Below Back Stair	1	Area =	6.250		6.250		
					Total	1,202.600	Sq.m.	
5.2	<i>Ground Floor</i> Ladies/Jents Toilet	1	Area =	43.880		43.880		
					Total	43.880	Sq.m.	
5.3	<i>First Floor</i> Ladies/Jents Toilet	1	Area =	26.880		26.880		
					Total	26.880	Sq.m.	
5.4	<i>Second Floor</i> Ladies/Jents Toilet	1	Area =	32.047		32.047		
	Chief's Toilet	1	Area =	2.294		2.294		
	Chief Admin Officer's Toilet	1	Area =	2.459		2.459		
					Total	36.800	Sq.m.	
5.5	<i>Third Floor</i> Ladies/Jents Toilet	1	Area =	32.047		32.047		
					Total	32.047	Sq.m.	
					Subtotal	1,342.207	Sq.m.	
6	P.C.C. - 1:3:6, Crushed aggregate							
6.1	<i>Upto Plinth Level</i> <u>Column Foundation</u> <u>Rooms and Beams</u>	1	@soling area *75mm thick			49.234		
	Between all Grids	1	Area =	539.900	0.075	40.493		
	Below Back Stair	1	Area =	6.250	0.075	0.469		
					Total	90.195	Cu.m	

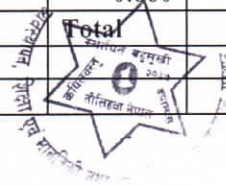
					Subtotal	90.195	Cu.m	
7	P.C.C. - 1:2:4 - crushed aggregate							
7.1	<i>Ground Floor</i>							
	Ladies/Jents Toilet	1	Area =	43.880	0.100	4.388		
						Total	4.388	Cu.m
7.2	<i>First Floor</i>							
	Ladies/Jents Toilet	1	Area =	26.880	0.100	2.688		
						Total	2.688	Cu.m
7.3	<i>Second Floor</i>							
	Ladies/Jents Toilet	1	Area =	32.047	0.100	3.205		
	Chief's Toilet	1	Area =	2.294	0.100	0.229		
	Chief Admin Officer's Toilet	1	Area =	2.459	0.100	0.246		
						Total	3.680	Cu.m
7.4	<i>Third Floor</i>							
	Ladies/Jents Toilet	1	Area =	32.047	0.100	3.205		
						Total	3.205	Cu.m
						Subtotal	13.961	Cu.m
8	PPC for RCC (1:1:2) - crushed aggregate							
	(1:1:2) Crushed Aggregate							
8.1	<u>Column</u>							
8.1.1	<i>Upto Plinth Level</i>							
	Column Raft Foundation	1	Area =	656.450	0.700	459.515		
						Total	459.515	Cu.m
	<i>Column upto plinth level</i>							
	Columns	42	0.5	0.5	2.325	24.413		
						Total	24.413	Cu.m
8.1.2	<i>Ground Floor</i>							
	Columns	42	0.500	0.500	3.533	37.097		
						Total	37.097	Cu.m
8.1.3	<i>First Floor</i>							
	Columns	40	0.500	0.500	3.533	35.330		
						Total	35.330	Cu.m
8.1.4	<i>Second Floor</i>							
	Columns	40	0.500	0.500	3.533	35.330		
						Total	35.330	Cu.m
8.1.5	<i>Third Floor</i>							
	Columns	40	0.500	0.500	3.533	35.330		
						Total	35.330	Cu.m
8.1.5	<i>Fourth Floor</i>							
	Columns	8	0.500	0.500	3.533	7.066		
						Total	7.066	Cu.m
						Subtotal	174.565	Cu.m
8.2	<u>Beams</u>							
8.2.1	<i>Upto Plinth Level</i>							
8.2.1.2	<u>Plinth tie Beam</u>							
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78	0.230	0.350	5.725		
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36	0.230	0.350	7.200		
	Grid D-D, E-E	2	12.69	0.230	0.350	2.043		
	Grid A-A	1	4.93	0.230	0.350	0.397		
	Grid 3-3, 4-4	2	16.08	0.230	0.350	2.590		
	Courtyard Grid	1	29.53	0.230	0.350	2.377		
						Total	20.331	Cu.m

						Subtotal	20.331	Cu.m	
8.2.2	Ground Floor								
8.2.2.1	Main Beam								
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78	0.230	0.325	5.316			
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36	0.230	0.325	6.686			
	Grid D-D, E-E	2	12.69	0.230	0.325	1.897			
	Grid A-A	1	4.93	0.230	0.325	0.369			
	Grid 3-3, 4-4	2	16.08	0.230	0.325	2.405			
					Total	16.672	Cu.m		
8.2.3	First Floor								
8.2.3.1	Main Beam								
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78	0.230	0.325	5.316			
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36	0.230	0.325	6.686			
	Grid D-D, E-E	2	12.69	0.230	0.325	1.897			
	Grid 3-3, 4-4	2	12.68	0.230	0.325	1.896			
					Total	15.795	Cu.m		
8.2.3	Second Floor								
8.2.3.1	Main Beam								
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78	0.230	0.325	5.316			
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36	0.230	0.325	6.686			
	Grid D-D, E-E	2	12.69	0.230	0.325	1.897			
	Grid 3-3, 4-4	2	12.68	0.230	0.325	1.896			
					Total	15.795	Cu.m		
8.2.4	Third Floor								
8.2.4.1	Main Beam								
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78	0.230	0.325	5.316			
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36	0.230	0.325	6.686			
	Grid D-D, E-E	2	12.69	0.230	0.325	1.897			
	Grid 3-3, 4-4	2	12.68	0.230	0.325	1.896			
	Courtyard Beam	1	29.53	0.230	0.325	2.207			
					Total	18.002	Cu.m		
8.2.4	Fourth Floor								
8.2.4.1	Main Beam								
	Grid D-D, E-E	2	8.64	0.300	0.325	1.684			
	Grid 1-1, 2-2, 5-5, 6-6	4	3.21	0.300	0.325	1.251			
					Total	2.935	Cu.m		
					Subtotal	69.199	Cu.m		
8.5	Floor Slab and Staircase								
8.5.1	Ground Floor								
	Floor Slab plus Projection	1	Area =	564.530	0.125	70.566			
					Total	70.566	Cu.m		
	Staircase								
	Carriage 1	1	3.312	1.600	0.170	0.901			
	Carriage 2	1	3.343	1.600	0.170	0.909			
	Landing	1	3.192	1.600	0.170	0.868			
	Steps	22	1.60	0.15	0.250	1.338			
					Total	4.016	Cu.m		
8.5.2	First Floor								
	Floor Slab plus Projection	1	Area =	529.870	0.125	66.234			
					Total	66.234	Cu.m		
	Staircase								
	Carriage 1	1	3.312	1.600	0.170	0.901			
	Carriage 2	1	3.343	1.600	0.170	0.909			

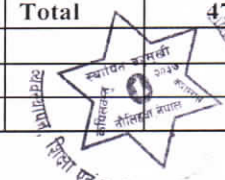
	Landing	1	3.192	1.600	0.170	0.868		
	Steps	22	1.60	0.15	0.250	1.338		
					Total	4.016	Cu.m	
8.5.3	Second Floor							
	<u>Floor Slab plus Projection</u>	1	Area =	529.870	0.125	66.234		
					Total	66.234	Cu.m	
	<u>Staircase</u>							
	<u>Flight 1</u>							
	Carriage 1	1	3.312	1.600	0.170	0.901		
	Carriage 2	1	3.343	1.600	0.170	0.909		
	Landing	1	3.192	1.600	0.170	0.868		
	Steps	22	1.60	0.15	0.250	1.338		
					Total	4.016	Cu.m	
8.5.4	Third Floor							
	<u>Floor Slab</u>	1	Area =	529.870	0.125	66.234		
					Total	66.234	Cu.m	
	<u>Staircase</u>							
	<u>Flight 1</u>							
	Carriage 1	1	3.312	1.600	0.170	0.901		
	Carriage 2	1	3.343	1.600	0.170	0.909		
	Landing	1	3.192	1.600	0.170	0.868		
	Steps	22	1.60	0.15	0.250	1.338		
					Total	4.016	Cu.m	
8.5.5	Fourth Floor							
	<u>Floor Slab</u>	4	4.258	5.038	0.125	10.726		
					Total	10.726	Cu.m	
					Subtotal	296.057	Cu.m	
8.6(b)	Lintel Bands							
8.6.1	<u>Ground Floor</u>	1	80.280	0.230	0.125	2.308		
					Total	2.308	Cu.m	
8.5.2	<u>First Floor</u>	1	80.280	0.230	0.125	2.308		
					Total	2.308	Cu.m	
8.5.3	<u>Second Floor</u>	1	80.280	0.230	0.125	2.308		
					Total	2.308	Cu.m	
8.5.4	<u>Third Floor</u>	1	80.280	0.230	0.125	2.308		
					Total	2.308	Cu.m	
8.5.4	<u>Fourth Floor</u>	1	30.036	0.230	0.125	0.864		
					Total	0.864	Cu.m	
					Subtotal	10.096	Cu.m	
8.6	Sill Bands							
8.6.1	<u>Ground Floor</u>	1	75.460	0.230	0.125	2.169		
					Total	2.169	Cu.m	
8.6.2	<u>First Floor</u>	1	75.460	0.230	0.125	2.169		
					Total	2.169	Cu.m	
8.6.3	<u>Second Floor</u>	1	75.460	0.230	0.125	2.169		
					Total	2.169	Cu.m	
8.6.4	<u>Third Floor</u>	1	75.460	0.230	0.125	2.169		
					Total	2.169	Cu.m	
8.5.4	<u>Fourth Floor</u>	1	30.036	0.230	0.125	0.864		
					Total	0.864	Cu.m	
					Subtotal	8.678	Cu.m	
9	19mm Plywood Post for Column							
9.1	<u>Upto Plinth Level</u>							
	<u>Column Raft Foundation</u>	1	108.054					
	<u>Column upto plinth</u>							



	Column over Footings	42	2.000		2.325	195.300	
					Total	195.300	Sq.m
9.2	Ground Floor						
	Columns	42	2.000		3.533	296.772	
					Total	296.772	Sq.m
9.3	First Floor						
	Columns	40	2.000		3.533	282.640	
					Total	282.640	Sq.m
9.4	Second Floor						
	Columns	40	2.000		3.533	282.640	
					Total	282.640	Sq.m
9.5	Third Floor						
	Columns	40	2.000		3.533	282.640	
					Total	282.640	Sq.m
9.5	Fourth Floor						
	Columns	8	2.000		3.533	56.528	
					Total	56.528	Sq.m
					Subtotal	1,396.520	Sq.m
10	19mm Plywood formwork for Beam						
10.1	Upto Plinth Level						
10.1.1	Plinth tie Beam						
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78		0.930	66.134	
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36		0.930	83.179	
	Grid D-D, E-E	2	12.69		0.930	23.607	
	Grid A-A	1	4.93		0.930	4.588	
	Grid 3-3, 4-4	2	16.08		0.930	29.916	
	Courtyard Grid	1	29.53		0.930	27.461	
					Total	234.885	Sq.m
10.2	Ground Floor						
8.2.2.1	Main Beam						
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78		0.880	62.579	
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36		0.880	78.707	
	Grid D-D, E-E	2	12.69		0.880	22.338	
	Grid A-A	1	4.93		0.880	4.341	
	Grid 3-3, 4-4	2	16.08		0.880	28.308	
					Total	196.273	Sq.m
10.3	First Floor						
8.2.3.1	Main Beam						
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78		0.880	62.579	
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36		0.880	78.707	
	Grid D-D, E-E	2	12.69		0.880	22.338	
	Grid 3-3, 4-4	2	12.68		0.880	22.324	
					Total	185.948	Sq.m
10.4	Second Floor						
8.2.3.1	Main Beam						
	Grid 1-1, 2-2, 5-5, 6-6	4	17.78		0.880	62.579	
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36		0.880	78.707	
	Grid D-D, E-E	2	12.69		0.880	22.338	
	Grid 3-3, 4-4	2	12.68		0.880	22.324	
					Total	185.948	Sq.m
10.5	Third Floor						
8.2.4.1	Main Beam						



	Grid 1-1, 2-2, 5-5, 6-6	4	17.78		0.880	62.579		
	Grid B-B, C-C, D-D, E-E, F-F, G-G	4	22.36		0.880	78.707		
	Grid D-D, E-E	2	12.69		0.880	22.338		
	Grid 3-3, 4-4	2	12.68		0.880	22.324		
	Courtyard Beam	1	29.53		0.880	25.985		
					Total	211.932	Sq.m	
10.5	Fourth Floor							
8.2.4.1	Main Beam							
	Grid D-D, E-E	2	8.64		0.880	15.198		
	Grid 1-1, 2-2, 5-5, 6-6	4	3.21		0.880	11.289		
					Total	26.486	Sq.m	
					Subtotal	1,041.471	Sq.m	
12	Ply wood formwork for Lintel Bands							
12.1	Ground Floor	2	80.280		0.125	20.070		
					Total	20.070	Sq.m	
12.2	First Floor	2	80.280		0.125	20.070		
					Total	20.070	Sq.m	
12.3	Second Floor	2	80.280		0.125	20.070		
					Total	20.070	Sq.m	
12.4	Third Floor	2	80.280		0.125	20.070		
					Total	20.070	Sq.m	
8.5.4	Fourth Floor	2	30.036		0.125	7.509		
					Total	7.509	Sq.m	
					Subtotal	87.789	Sq.m	
13	Sill Bands							
8.6.1	Ground Floor	2	75.460		0.125	18.865		
					Total	18.865	Sq.m	
8.6.2	First Floor	2	75.460		0.125	18.865		
					Total	18.865	Sq.m	
8.6.3	Second Floor	2	75.460		0.125	18.865		
					Total	18.865	Sq.m	
8.6.4	Third Floor	2	75.460		0.125	18.865		
					Total	18.865	Sq.m	
8.5.4	Fourth Floor	2	30.036		0.125			
					Total	-	Sq.m	
					Subtotal	75.460	Sq.m	
14	Plywood formwork for Floor Slab and Staircase							
14.2	Ground Floor							
	Floor Slab	1	Area=	502.740		502.740		
					Total	502.740	Sq.m.	
	Staircase							
	Carriage 1	1	3.312	1.600		5.299		
	Carriage 2	1	3.343	1.600		5.349		
	Landing	1	3.192	1.600		5.107		
	Steps	22	1.60		0.15	5.280		
	Carriage Side Faces	4	Area=	1.851		7.406		
	Landing Slab Edge	2	1.60		0.17	0.544		
					Total	28.985	Sq.m.	
14.3	First Floor							
	Floor Slab	1	Area	471.270		471.270		
					Total	471.270	Sq.m.	
	Staircase							
	Carriage 1	1	3.312	1.600		5.299		
	Carriage 2	1	3.343	1.600		5.349		



900

	Landing	1	3.192	1.600		5.107		
	Steps	22	1.60		0.15	5.280		
	Carriage Side Faces	4	Area=	1.851		7.406		
	Landing Slab Edge	2	1.60		0.17	0.544		
					Total	28.985	Sq.m.	
14.4	<u>Second Floor</u>							
	Floor Slab	1	Area	471.270		471.270		
					Total	471.270	Sq.m.	
	<u>Staircase</u>							
	Carriage 1	1	3.312	1.600		5.299		
	Carriage 2	1	3.343	1.600		5.349		
	Landing	1	3.192	1.600		5.107		
	Steps	22	1.60		0.15	5.280		
	Carriage Side Faces	4	Area=	1.851		7.406		
	Landing Slab Edge	2	1.60		0.17	0.544		
					Total	28.985	Sq.m.	
14.4	<u>Thrid Floor</u>							
	Floor Slab	1	Area	463.940		463.940		
					Total	463.940	Sq.m.	
	<u>Staircase</u>							
	Carriage 1	1	3.312	1.600		5.299		
	Carriage 2	1	3.343	1.600		5.349		
	Landing	1	3.192	1.600		5.107		
	Steps	22	1.60		0.15	5.280		
	Carriage Side Faces	4	Area=	1.851		7.406		
	Landing Slab Edge	2	1.60		0.17	0.544		
					Total	28.985	Sq.m.	
14.5	<u>Fourth Floor</u>							
	<u>Floor Slab</u>	1	Area =	74.970		74.970		
					Total	74.970	Sq.m.	
					Subtotal	2,100.129	Sq.m.	
15	1st Class brick Work (1:6 C/M)							
15.1	Upto Plinth Level							
	<u>Infill Wall at grid ...</u>							
	Grid A-A, E-E	2	17.75	0.350	1.800	22.365		
	Grid B-B, C-C, D-D	3	23.85	0.350	1.800	45.077		
	Grid F-F	1	3.55	0.350	1.800	2.237		
	Grid 1-1, 8-8	2	6.10	0.350	1.800	7.686		
	Grid 2-2, 3-3, 7-7	3	13.20	0.350	1.800	24.948		
	Grid 4-4, 5-5	2	19.10	0.350	1.800	24.066		
	Front Steps	1	4.45	Area=	0.240	1.067		
	Front Ramp	1	0.23	Area=	6.629	1.525		
		1	1.35	0.230	0.230	0.071		
	Flower Carry Wall	1	8.00	1.350	1.080	11.664		
	Car Ramp Front Walls	1	0.23	Area=	12.175	2.800		
	Plinth Band	1	66.05	0.230	0.830	12.609		
	<u>Septic Tank Wall</u>							
	Long Wall	2	6.19	0.230	1.500	4.271		
	Short Wall	2	2.60	0.230	1.500	1.794		
	Soak Pit Wall	1	5.43	0.230	3.000	3.750		
	Soil/Waste manhole cover	16	2.72	0.230	0.450	0.450		
	Septic Tank wall	1	18.08	0.230	1.700	0.450		
					Total	166.829	Cu.m	
15.2	Ground Floor							
	Grid A-A	1	14.20	0.230	2.950	9.635		

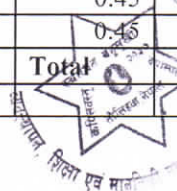
	Grid A4-A5	1	4.45	0.230	3.275	3.352		
	<i>Deduction for Stair Window</i>	-1	1.80	0.230	1.575	(0.652)		
	Grid B1-B2, B7, B8	2	3.05	0.230	2.950	4.139		
	Grid D1-D2, D7-D8	2	3.05	0.230	2.950	4.139		
	Grid A2-B2, D2-E2, A7-B7, D7-E7	4	3.55	0.230	2.950	9.635		
	Grid E-E	1	14.20	0.230	2.950	9.635		ded.. for door
	Lift Wall	1	8.06	0.230	3.275	6.071		
	Deduction for ...							
	Window (W1.8)	-9	1.8	0.230	1.400	(5.216)		
	Window (W1.5)	-6	1.5	0.230	1.400	(2.898)		
	Window (W.9)	-4	0.9	0.230	1.400	(1.159)		
	Window (W.6)	-8	0.6	0.230	1.150	(1.270)		
	Lift Door	-1	0.90	0.230	2.15	(0.445)		
					Total	34.965	Cu.m	
15.2	First Floor							
	Grid A-A	1	14.20	0.230	2.950	9.635		
	Grid A4-A5	1	4.45	0.230	3.275	3.352		
	<i>Deduction for Stair Window</i>	-1	1.80	0.230	3.275	(1.356)		
	Grid B1-B2, B7, B8	2	3.05	0.230	2.950	4.139		
	Grid D1-D2, D7-D8	2	3.05	0.230	2.950	4.139		
	Grid A2-B2, D2-E2, A7-B7, D7-E7	4	3.55	0.230	2.950	9.635		
	Grid E-E	1	14.20	0.230	2.950	9.635		ded.. for door
	Grid F-F	1	3.55	0.230	2.950	2.409		
	Grid E4-F4, E5-F5	2	1.35	0.230	2.950	1.832		
	Lift Wall	1	8.06	0.230	3.275	6.071		
	Deduction for ...							
	Window (W1.8)	-11	1.8	0.230		(4.554)		
	Window (W1.5)	-6	1.5	0.230		(2.070)		
	Window (W.9)	-6	0.9	0.230		(1.242)		
	Window (W.6)	-8	0.6	0.230		(1.104)		
	Lift Door	-1	0.90	0.230	2.15	(0.445)		
					Total	40.075	Cu.m	
15.3	Second Floor							
	Grid A-A	1	14.20	0.230	2.950	9.635		
	Grid A4-A5	1	4.45	0.230	3.275	3.352		
	<i>Deduction for Stair Window</i>	-1	1.80	0.230	3.275	(1.356)		
	Grid B1-B2, B7, B8	2	3.05	0.230	2.950	4.139		
	Grid D1-D2, D7-D8	2	3.05	0.230	2.950	4.139		
	Grid A2-B2, D2-E2, A7-B7, D7-E7	4	3.55	0.230	2.950	9.635		
	Grid E-E	1	14.20	0.230	2.950	9.635		ded.. for door
	Grid E4-E5	1	4.45	0.230	3.275	3.352		
	<i>Deduction for front Window</i>	-1	3.00	0.230	3.275	(2.260)		
	Lift Wall	1	8.06	0.230	2.950	5.469		
	Deduction for ...							
	Window (W1.8)	-9	1.8	0.230		(3.726)		
	Window (W1.5)	-6	1.5	0.230		(2.070)		
	Window (W.9)	-5	0.9	0.230		(1.035)		
	Window (W.6)	-10	0.6	0.230		(1.380)		
	Lift Door	-1	0.90	0.230	2.15	(0.445)		
					Total	37.083	Cu.m	
15.4	Third Floor							
	Grid A-A	1	14.20	0.230	2.950	9.635		
	Grid A4-A5	1	4.45	0.230	3.275	3.352		
	<i>Deduction for Stair Window</i>	-1	1.80	0.230	3.275	(1.356)		

2.950
3.275
3.275

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	Grid 2-2, 7-7	1	9.65	0.230	2.950	6.548		
	Grid D3-E3, D6-E6, D2-D3, D6-D7	4	3.55	0.230	2.950	9.635		
	Grid E-E	1	14.20	0.230	2.950	9.635		ded. for door
	Grid E4-E5	1	4.45	0.230	3.275	3.352		
	<i>Deduction for front Window</i>	-1	3.00	0.230	3.275	(2.260)		
	Lift Wall	1	8.06	0.230	3.275	6.071		
	Parapet Wall Monuments	12	0.90	0.230	1.000	2.484		
	<i>Deduction for ...</i>							
	Window (W1.8)	-6	1.8	0.230		(2.484)		
	Window (W1.5)	-7	1.5	0.230		(2.415)		
	Window (W.9)	0	0.9	0.230		-		
	Window (W.6)	-8	0.6	0.230		(1.104)		
	Lift Door	-1	0.90	0.230	2.15	(0.445)		
					Total	40.647	Cu.m	
15.4	Fourth Floor							
	Grid A-A	1	4.45	0.230	3.275	3.352		
	Grid E-E	1	4.45	0.230	3.275	3.352		
	Grid 4-4, 5-5	2	13.20	0.230	2.950	17.912		
	<i>Deduction for Stair Window</i>	-1	1.80	0.230	2.150	(0.890)		
	<i>Deduction for Front Window</i>	-1	3.00	0.230	3.275	(2.260)		
	Parapet Wall Monuments	16	0.90	0.230	1.000	3.312		
	Top Parapet Wall Monuments	8	0.90	0.230	1.000	1.656		
	Door (D1.2)	-1	1.20	0.115		(0.138)		
	Door (D1)	-2	1.00	0.230		(0.460)		
	Window (W1.5)	-4	1.5	0.230		(1.380)		
					Total	24.456	Cu.m	
					Subtotal	319.598	Cu.m	
16	1st Class brick Work (1:4 C/M), Half Brick thick							
16.1	Ground Floor							
	Grid B2-B4, B5-B7	4	3.55		2.950	41.890		
	Grid C1-C4, C5-C7	1	14.97		2.950	44.162		
	Grid D6-D7	1	3.55		2.950	10.473		
	Grid A4-B4, A5-B5, D3-E3	3	3.55		2.950	31.418		
	Partition wall along Health Section	1	3.85		3.275	12.609		
	Partition Wall along Store/Disable Toilet	1	3.84		3.275	12.560		
	Disable Toilet Front Wall	1	1.51		3.275	4.945		
	Ladies/Gents Toilet Front Wall	1	3.35		2.400	8.040		
	Ladies/Gents Toilet Partition Walls	6	1.35		2.400	19.440		
	Addition for end Partition Walls	1	1.73		0.875	1.509		
		1	1.47		0.875	1.282		
	Void Front Wall	1	1.38		3.275	4.520		
	Toilet Middle Wall	1	2.83		3.275	9.281		
	<i>Deduction for ..</i>							
	Door (D1)	-3	1.00		2.15	(6.450)		
	Door (D1.2)	-2	1.20		2.15	(5.160)		
	Door (D.75)	-8	0.75		2.15	(12.900)		
	Door (D1a)	-1	1.00		2.15	(2.150)		
	Ventilation (V.6)	-1	0.60		0.45	(0.270)		
					Total	175.197	Sq.m	

16.2	First Floor							
	Grid B5-B7	2	3.55		2.950	20.945		
	Grid B2-B4, B5-B8	1	14.95		2.950	44.103		
	Grid D6-D7	1	3.55		2.950	10.473		
	Grid B2-C2, A4-B4, B4-C4, D3-E3, A5-B5, D5, E5	6	3.55		2.950	62.835		
	Grid C7-D7	1	2.55		2.950	7.523		
	Deputy's Partition with Toilet	1	3.89		3.275	12.733		
	Disabled Toilet Front Wall	1	2.86		3.275	9.350		
	Deputy's Toilet Back Wall	1	1.51		3.275	4.945		
	Ladies/Gents Toilet Front Wall	1	3.35		2.400	8.040		
	Ladies/Gents Toilet Partition Walls	6	1.35		2.400	19.440		
	Addition for end Partition Walls	1	1.73		0.875	1.509		
		1	1.47		0.875	1.282		
	Void Front Wall	1	1.38		3.275	4.520		
	Toilet Middle Wall	1	2.83		3.275	9.281		
	Deduction for.. ..							
	Door (D1)	-3	1.00		2.15	(6.450)		
	Door (D1.2)	-2	1.20		2.15	(5.160)		
	Door (D.75)	-8	0.75		2.15	(12.900)		
	Door (D1a)	-1	1.00		2.15	(2.150)		
	Ventilation (V.6)	-1	0.60		0.45	(0.270)		
	Ventilation (V.9)	-1	0.90		0.45	(0.405)		
					Total	189.643	Sq.m	
16.3	Second Floor							
	Grid B3-B4, B5-B7	3	3.55		2.950	31.418		
	Grid C1-C4, C5-C8	1	18.34		2.950	54.088		
	Grid D6-D7	1	3.55		2.950	10.473		
	Grid A3-B3, A4-B4, A5-B5, B3-C3, B2-C2, D3-E3, D4-E4, D5-E5	8	3.55		2.950	83.780		
	Grid C7-D7	1	2.55		2.950	7.523		
	Chief Admin's Toilet	1	3.27		3.275	10.693		
	Disabled Toilet Front Wall	1	2.86		3.275	9.350		
	Deputy's Toilet Back Wall	1	1.51		3.275	4.945		
	Ladies/Gents Toilet Front Wall	1	3.35		2.400	8.040		
	Ladies/Gents Toilet Partition Walls	6	1.35		2.400	19.440		
	Addition for end Partition Walls	1	1.73		0.875	1.509		
		1	1.47		0.875	1.282		
	Void Front Wall	1	1.38		3.275	4.520		
	Toilet Middle Wall	1	2.83		3.275	9.281		
	Deduction for.. ..							
	Door (D1)	-5	1.00		2.15	(10.750)		
	Door (D1.2)	-2	1.20		2.15	(5.160)		
	Door (D.75)	-9	0.75		2.15	(14.513)		
	Door (D1a)	-1	1.00		2.15	(2.150)		
	Ventilation (V.6)	-1	0.60		0.45	(0.270)		
	Ventilation (V.9)	-1	0.90		0.45	(0.405)		
					Total	223.094	Sq.m	
16.4	Third Floor							

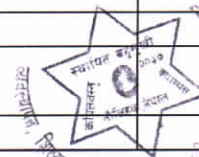


62

	Grid B5-B7	2	3.55		2.950	20.945		
	Grid C4-C6	1	4.80		2.950	14.160		
	Grid A4-E4	1	13.20		2.950	38.940		
	Grid A5-E5	1	9.65		2.950	28.468		
	Grid C6-D6	1	2.55		2.950	7.523		
	Ladies/Gents Toilet Front Wall	1	3.35		2.400	8.040		
	Ladies/Gents Toilet Partition Walls	6	1.35		2.400	19.440		
	Addition for end Partition Walls	1	1.73		0.550	0.949		
		1	1.47		0.550	0.806		
	Void Front Wall	1	1.38		3.275	4.520		
	Toilet Middle Wall	1	2.83		3.275	9.281		
	Parapet Wall	2	16.70		0.450	15.026		
	Deduction for.. ..							
	Door (D1.5)	-1	1.50		2.25	(3.375)		
	Door (D1)	-2	1.00		2.15	(4.300)		
	Door (D.75)	-7	0.75		2.15	(11.288)		
	Door (D1.2)	-2	1.20		2.15	(5.160)		
					Total	143.973	Sq.m	
16.5	Fourth Floor							
	Grid C4-C5	1	3.550		2.950	10.473		
	Deduction for							
	Door (D1.2)	-1	1.20		2.15	(2.580)		
	Parapet	2	24.122		0.450	21.710		
	Top Parapet	1	32.140		0.450	14.463		
					Total	44.065	Sq.m	
					Subtotal	775.972	Sq.m	
17	Interior Plaster Works							
17.1	12.5mm plaster in ceiling/beam							
	Ground Floor							
	Floor Slab	1	Area =	354.745		354.745		
	Deduction for wall top at.. ..							
	Grid A-A	-1	18.65	0.230		(4.290)		
	Grid B1-B2, B7, B8	-2	3.05	0.230		(1.403)		
	Grid D1-D2, D7-D8	-2	3.05	0.230		(1.403)		
	Grid A2-B2, D2-E2, A7-B7, D7-E7	-4	3.55	0.230		(3.266)		
	Grid E-E	-1	14.75	0.230		(3.393)		ded. for door
	Lift Wall	-1	8.06	0.230		(1.854)		
	Grid B-B	-1	14.20	0.115		(1.633)		
	Grid C-C	-1	11.90	0.115		(1.369)		
	Grid D6-D7	-1	3.55	0.115		(0.408)		
	Grid D3-E3-A4-B4, A5-B5	-3	10.65	0.115		(3.674)		
	Store/Disable Partition Wall	-1	3.84	0.115		(0.441)		
	Health/Store Partition Wall	-1	3.89	0.115		(0.447)		
	Disable Toilet Front Wall	-1	1.51	0.115		(0.174)		
	Rest Room							
	Duct Front Wall	-1	1.38	0.115		(0.159)		
	Ladies/Jents Partition Wall	-1	4.64	0.115	0.125	(0.067)		
	Staircase invert							
	Carriage	2	Area=	5.493		10.985		
	Landing	1	Area=	5.601		5.601		
	Steps	19	1.70			5.485		



	Carriage Side Faces	2	Area=	1.651		3.303		
					Total	356.139	Sq.m	
	First Floor							
	Floor Slab	1	Area =	362.755		362.755		
	Deduction for wall top at.. ..							
	Grid A-A	-1	18.65	0.230		(4.290)		
	Grid B1-B2, B7, B8	-2	3.05	0.230		(1.403)		
	Grid D1-D2, D7-D8	-2	3.05	0.230		(1.403)		
	Grid A2-B2, D2-E2, A7-B7, D7-E7	-4	3.55	0.230		(3.266)		
	Grid E-E	-1	14.20	0.230		(3.266)		
	Grid F-F	-1	3.55	0.230		(0.817)		
	Grid E4-F4, E5-F5	-2	1.35	0.230		(0.621)		
	Lift Wall	-1	8.06	0.230		(1.854)		
	Grid B5-B7	-1	7.10	0.115		(0.817)		
	Grid C-C	-1	14.95	0.115		(1.719)		
	Grid D6-D7	-1	3.55	0.115		(0.408)		
	Grid B2-C2, D3-E3, A4-B4, A5-B5, B4-C4, D5-E5	-6	3.55	0.115		(2.450)		
	Grid C7-D7	-1	2.55	0.115		(0.293)		
	Disabled Toilet Front Wall	-1	2.86	0.115		(0.328)		
	Deputy's Chamber's Side Wall	-1	3.89	0.115		(0.447)		
	Deputy's Toilet Back Wall	-1	1.51	0.115		(0.174)		
	<u>Rest Room</u>							
	Ladies/Jents Partition Wall	-1	4.64	0.115		(0.534)		
	Duct Front Wall	-1	1.38	0.115		(0.159)		
	<u>Staircase invert</u>							
	Carriage	2	Area=	5.493		10.985		
	Landing	1	Area=	5.601		5.601		
	Steps	19	1.70		0.17	5.485		
	Carriage Side Faces	2	Area=	1.651		3.303		
					Total	363.881	Sq.m	
	Second Floor							
	Floor Slab	1	Area =	354.952		354.952		
	Deduction for wall top at.. ..							
	Grid A-A	-1	18.65	0.230		(4.290)		
	Grid B1-B2, B7, B8	-2	3.05	0.230		(1.403)		
	Grid D1-D2, D7-D8	-2	3.05	0.230		(1.403)		
	Grid A2-B2, D2-E2, A7-B7, D7-E7	-4	3.55	0.230		(3.266)		
	Grid E-E	-1	18.65	0.230		(4.290)		ded.. for door
	Lift Wall	-1	8.06	0.230		(1.854)		
	Grid B-B	-1	10.65	0.115		(1.225)		
	Grid C-C	-1	14.95	0.115		(1.719)		
	Grid D6-D7	-1	3.55	0.115		(0.408)		
	Account Store Wall	-1	3.89	0.115		(0.447)		
	Grid B2-C2	-1	3.55	0.115		(0.408)		
	Grid 3-3	-1	10.65	0.115		(1.225)		
	Grid 4-4, 5-5	-2	7.10	0.115		(1.633)		
	Grid C7-D7	-1	2.55	0.115		(0.293)		
	Disabled Toilet Front Wall	-1	2.86	0.115		(0.328)		
	Deputy's Chamber's Side Wall	-1	3.89	0.115		(0.447)		
	Deputy's Toilet Back Wall	-1	1.51	0.115		(0.174)		



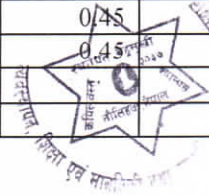
	<u>Rest Room</u>						
	Ladies/Jents Partition Wall	-1	4.64	0.115		(0.534)	
	Duct Front Wall	-1	1.38	0.115		(0.159)	
	Karyakari's Toilet	-1	3.27	0.115		(0.375)	
	<u>Staircase invert</u>						
	Carriage	2	Area=	5.493		10.985	
	Landing	1	Area=	5.601		5.601	
	Steps	19	1.70		0.17	5.485	
	Carriage Side Faces	2	Area=	1.651		3.303	
					Total	354.445	Sq.m
	<u>Third Floor</u>						
	Floor Slab	1	Area =	270.802		270.802	
	Deduction for wall top at.. ..						
	Grid A-A	-1	18.65	0.230		(4.290)	
	Grid 2-2, 7-7	-1	9.65	0.230		(2.220)	
	Grid D3-E3, D6-E6, D2-D3, D6-D7	-4	3.55	0.230		(3.266)	
	Grid E-E	-1	8.55	0.230		(1.967)	
	Lift Wall	-1	8.06	0.230		(1.854)	
	Grid 4-4	-1	13.20	0.115		(1.518)	
	Grid 5-5	-1	9.65	0.115		(1.110)	
	Grid C6-D6	-1	2.55	0.115		(0.293)	
	Grid C-C	-1	4.80	0.115		(0.552)	
	Grid B-B	-1	7.10	0.115		(0.817)	
	<u>Rest Room</u>						
	Ladies/Jents Partition Wall	-1	4.64	0.115		(0.534)	
	Duct Front Wall	-1	1.38	0.115		(0.159)	
	<u>Staircase invert</u>						
	Carriage	2	Area=	5.493		10.985	
	Landing	1	Area=	5.601		5.601	
	Steps	19	1.70		0.17	5.485	
	Carriage Side Faces	2	Area=	1.651		3.303	
					Total	277.598	Sq.m
	<u>Fourth Floor</u>						
	Floor Slab	1	Area =	68.753		68.753	
	Deduction for wall top at.. ..						
	Grid A-A, E-E	-2	4.45	0.230		(2.047)	
	Grid C-C	-1	3.55	0.115		(0.408)	
	Grid 4-4, 5-5	-2	13.20	0.230		(6.072)	
					Total	60.226	Sq.m
					Subtotal	1,412.290	Sq.m
17.2	20mm Plaster (1:6 C/M) at Wall						
	Ground Floor						
	Grid A-A	1	19.07		3.275	62.454	
	Grid B-B	1	16.10		3.275	52.711	
		1	23.21		3.275	76.013	
	Beam Face along B4-B5	2	3.55		0.325	2.308	
	Grid C-C	1	19.82		3.275	64.894	
		1	20.39		3.275	66.777	
	Beam Face along C4-C5	2	3.55		0.325	2.308	
	Beam Face along C7-C8	2	3.05		0.325	1.983	
	Grid D-D	1	12.79		3.275	41.887	
		1	5.56		3.275	18.209	
	Beam Face along D2-D6	8	3.55		0.325	9.230	
	Grid E-E	1	19.88		3.275	65.091	
	Grid 1-1	1	6.88		3.275	22.516	



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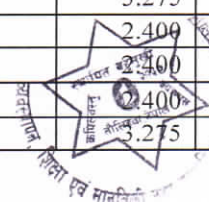
	Grid 2-2	1	0.78		3.275	2.538		
		1	8.66		3.275	28.362		
	Beam Face along B2-D2	2	6.10		0.325	3.965		
	Grid 3-3	1	5.11		3.275	16.735		Including partitions
		1	5.11		3.275	16.735		
	Beam Face along A3-D3	2	9.65		0.325	6.273		
	Grid 4-4	1	5.11		3.275	16.735		
		1	5.34		3.275	17.489		
	Beam Face along B4-E4	2	9.65		0.325	6.273		
	Grid 5-5	1	7.53		3.275	24.657		
		1	6.61		3.275	21.644		
	Beam Face along B5-E5	2	7.69		0.325	4.999		
	Grid 6-6	1	3.07		3.275	10.054		
		1	2.96		3.275	9.678		
	Beam Face along A6-E6	2	10.89		0.325	7.080		
	Grid 7-7	1	8.43		3.275	27.608		
		1	0.89		3.275	2.915		
	Beam Face along B7-D7	2	6.10		0.325	3.965		
	Grid 8-8	1	6.99		3.275	22.892		
	Health Section Partition Wall	2	3.85		3.275	25.218		
	Store Partition Wall	2	4.18		3.275	27.379		
	Lift External Wall	1	4.45		3.275	14.580		
	Male Toilet							
	Front Wall	1	3.31		2.400	7.932		
		1	3.00		2.400	7.200		
	Side Walls	6	1.35		2.400	19.440		
	Toilet Partition Wall	2	4.53		3.275	29.652		
	Ladies Toilet Front Wall	1	2.97		2.400	7.128		
		1	3.00		2.400	7.200		
	Ladies Toilet Partition Wall	4	1.35		2.400	12.960		
	Deduction for ...							
	Door (MD)	-1	3.00		2.95	(8.850)		
	Door (D1)	-6	1.00		2.15	(12.900)		
	Door (D1.2)	-4	1.20		2.15	(10.320)		
	Door (D1a)	-2	1.00		2.15	(4.300)		
	Door (D.75)	-15	0.75		2.15	(24.188)		
	Window (W1.8)	-9	1.80		1.40	(22.680)		
	Window (W1.5)	-6	1.50		1.40	(12.600)		
	Window (W.9)	-4	0.90		1.40	(5.040)		
	Ventilation (V.9)	-6	0.90		0.45	(2.430)		
	Addition for Jamb/Sill							
	Door (MD)	1	8.90	0.230		2.047		
	Door (D1)	3	5.30	0.115		1.829		
	Door (D1.2)	2	5.50	0.115		1.265		
	Door (D1a)	1	5.30	0.115		0.610		
	Door (D.75)	8	5.05	0.115		4.646		
	Window (W1.8)	9	6.40	0.230		13.248		
	Window (W1.5)	6	5.80	0.230		8.004		
	Window (W.9)	4	4.60	0.230		4.232		
	Ventilation (V.9)	3	2.70	0.115		0.932		
					Total	829.170	Sq.m	
	First Floor							
	Grid A-A	1	19.07		3.275	62.454		
	Grid B-B	1	9.00		3.275	29.459		
		1	16.48		3.275	53.972		
	Beam Face along B2-B5	2	10.65		0.325	6.923		

	Grid C-C	1	19.59		3.275	64.141		
		1	20.28		3.275	66.401		
	Beam Face along C4-C5	2	3.55		0.325	2.308		
	Beam Face along C1-C2	2	3.05		0.325	1.983		
	Grid D-D	1	12.68		3.275	41.511		
		1	5.56		3.275	18.209		
	Beam Face along D2-D6	8	3.55		0.325	9.230		
	Grid E-E	1	16.21		3.275	53.088		
		1	0.44		3.275	1.441		
	Beam Face along E4-E5	2	3.55		0.325	2.308		
	Grid F-F	1	3.99		3.275	13.067		
	Grid 1-1	1	6.99		3.275	22.892		
	Grid 2-2	1	4.44		3.275	14.541		
		1	12.33		3.275	40.364		
	Beam Face along C2-D2	2	2.55		0.325	1.658		
	Grid 3-3	1	5.23		3.275	17.112		Including partitions
		1	5.23		3.275	17.112		
	Beam Face along A3-D3	2	9.65		0.325	6.273		
	Grid 4-4	1	8.78		3.275	28.738		
		1	10.92		3.275	35.763		
	Beam Face along C4-E4	2	6.10		0.325	3.965		
	Grid 5-5	1	12.88		3.275	42.182		
		1	10.16		3.275	33.274		
	Beam Face along B5-D5	2	4.14		0.325	2.691		
	Grid 6-6	1	1.34		3.275	4.389		
		1	1.23		3.275	4.012		
	Beam Face along A6-E6	2	10.93		0.325	7.105		
	Grid 7-7	1	11.10		3.275	36.336		
		1	3.33		3.275	10.889		
	Beam Face along B7-C7	2	3.55		0.325	2.308		
	Grid 8-8	1	6.99		3.275	22.892		
	Deputy's Partition Wall	1	3.85		3.275	12.609		
	Disabled Toilet internal Wall	1	7.20		3.275	23.580		
	Deputy's Toilet Internal Wall	1	3.00		3.275	9.835		
	Lift External Wall	1	4.12		3.275	13.477		
	Male Toilet							
	Front Wall	1	3.31		2.400	7.932		
		1	3.00		2.400	7.200		
	Side Walls	6	1.35		2.400	19.440		
	Toilet Partition Wall	2	4.53		3.275	29.652		
	Ladies Toilet Front Wall	1	2.97		2.400	7.128		
		1	3.00		2.400	7.200		
	Ladies Toilet Partition Wall	4	1.35		2.400	12.960		
	Deduction for ...							
	Door (D1)	-6	1.00		2.15	(12.900)		
	Door (D1.2)	-4	1.20		2.15	(10.320)		
	Door (D1a)	-2	1.00		2.15	(4.300)		
	Door (D.75)	-15	0.75		2.15	(24.188)		
	Window (W1.8)	-11	1.80		1.40	(27.720)		
	Window (W1.5)	-6	1.50		1.40	(12.600)		
	Window (W.9)	-6	0.90		1.40	(7.560)		
	Ventilation (V.9)	-2	0.90		0.45	(0.810)		
	Ventilation (V.6)	-2	0.60		0.45	(0.540)		
	Addition for Jamb/Sill							
	Door (D1)	3	5.30	0.115		1.829		



900

	Door (D1.2)	2	5.50	0.115		1.265		
	Door (D1a)	1	5.30	0.115		0.610		
	Door (D.75)	8	5.05	0.115		4.646		
	Window (W1.8)	11	6.40	0.230		16.192		
	Window (W1.5)	6	5.80	0.230		8.004		
	Window (W.9)	6	4.60	0.230		6.348		
	Ventilation (V.9)	1	2.70	0.115		0.311		
	Ventilation (V.6)	1	2.10	0.115		0.242		
					Total	870.507	Sq.m	
	Second Floor							
	Grid A-A	1	18.84		3.275	61.701		
	Grid B-B	1	12.43		3.275	40.708		
		1	19.83		3.275	64.943		
	Beam Face along B2-B5	2	7.10		0.325	4.615		
	Grid C-C	1	19.09		3.275	62.503		
		1	19.78		3.275	64.763		
	Beam Face along C4-C5	2	3.55		0.325	2.308		
	Beam Face along C3-C2	2	3.55		0.325	2.308		
	Grid D-D	1	12.68		3.275	41.511		
		1	5.45		3.275	17.832		
	Beam Face along D2-D6	8	3.55		0.325	9.230		
	Grid E-E	1	19.65		3.275	64.337		
	Grid 1-1	1	6.88		3.275	22.516		
	Grid 2-2	1	4.33		3.275	14.164		
		1	12.33		3.275	40.364		
	Beam Face along C2-D2	2	2.55		0.325	1.658		
	Grid 3-3	1	12.33		3.275	40.364		Including partitions
		1	12.10		3.275	39.611		
	Beam Face along C3-D3	2	2.55		0.325	1.658		
	Grid 4-4	1	8.66		3.275	28.362		
		1	9.12		3.275	29.868		
	Beam Face along B4-D4	2	6.10		0.325	3.965		
	Grid 5-5	1	12.88		3.275	42.182		
		1	10.16		3.275	33.274		
	Beam Face along B5-D5	2	4.14		0.325	2.691		
	Grid 6-6	1	1.34		3.275	4.389		
		1	1.23		3.275	4.012		
	Beam Face along A6-E6	2	10.93		0.325	7.105		
	Grid 7-7	1	11.10		3.275	36.336		
		1	3.33		3.275	10.889		
	Beam Face along B7-C7	2	3.55		0.325	2.308		
	Grid 8-8	1	6.99		3.275	22.892		
	Mayor's Partition Wall	1	3.85		3.275	12.609		
	Disabled Toilet internal Wall	1	7.20		3.275	23.580		
	Deputy's Toilet Internal Wall	1	3.00		3.275	9.835		
	Lift External Wall	1	4.12		3.275	13.477		
	Male Toilet							
	Front Wall	1	3.31		2.400	7.932		
		1	3.00		2.400	7.200		
	Side Walls	6	1.35		2.400	19.440		
	Toilet Partition Wall	2	4.53		3.275	29.652		
	Ladies Toilet Front Wall	1	2.97		2.400	7.128		
		1	3.00		2.400	7.200		
	Ladies Toilet Partition Wall	4	1.35		2.400	12.960		
	Karyakari's Toilet	2	3.27		3.275	21.386		

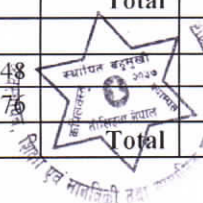


600

Account Store Wall	2	3.89		3.275	25.447		
Deduction for ...							
Door (D1)	-10	1.00		2.15	(21.500)		
Door (D1.2)	-4	1.20		2.15	(10.320)		
Door (D1a)	-2	1.00		2.15	(4.300)		
Door (D.75)	-17	0.75		2.15	(27.413)		
Window (W6)	-1	1.80		2.20	(3.960)		
Window (W3)	-1	3.00		2.20	(6.600)		
Window (W1.8)	-9	1.80		1.40	(22.680)		
Window (W1.5)	-6	1.50		1.40	(12.600)		
Window (W.9)	-5	0.90		1.40	(6.300)		
Ventilation (V.9)	-1	0.90		0.45	(0.405)		
Ventilation (V.6)	-1	0.60		0.45	(0.270)		
Addition for Jamb/Sill							
Door (D1)	5	5.30	0.115		3.048		
Door (D1.2)	2	5.50	0.115		1.265		
Door (D1a)	1	5.30	0.115		0.610		
Door (D.75)	9	5.05	0.115		5.227		
Window (W6)	1	2.20	0.230		0.506		
Window (W3)	1	2.20	0.230		0.506		
Window (W1.8)	9	6.40	0.230		13.248		
Window (W1.5)	6	5.80	0.230		8.004		
Window (W.9)	5	4.60	0.230		5.290		
Ventilation (V.9)	1	2.70	0.115		0.311		
Ventilation (V.6)	1	2.10	0.115		0.242		
				Total	945.118	Sq.m	
Third Floor							
Grid A-A	1	19.07		3.275	62.454		
Grid B-B	1	9.00		3.275	29.459		
	1	9.23		3.275	30.212		
Beam Face along B2-B5	2	10.65		0.325	6.923		
Grid C-C	1	9.23		3.275	30.212		
	1	9.00		3.275	29.459		
Beam Face along C4-C2	2	7.10		0.325	4.615		
Beam Face along C5-C6	2	3.55		0.325	2.308		
Grid D-D	1	9.00		3.275	29.459		
	1	1.11		3.275	3.635		
Beam Face along D2-D6	2	10.65		0.325	6.923		
Grid E-E	1	11.76		3.275	38.514		
Grid 2-2	1	10.99		3.275	35.992		
Grid 3-3	1	0.44		3.275	1.441		Including partitions
	1	4.44		3.275	14.541		
Beam Face along A3-D3	2	9.65		0.325	6.273		
Grid 4-4	1	14.99		3.275	49.092		
	1	15.11		3.275	49.469		
Grid 5-5	1	13.75		3.275	45.015		
	1	13.75		3.275	45.015		
Beam Face along B5-D5	2	4.14		0.325	2.691		
Grid 6-6	1	7.66		3.275	25.087		
	1	3.66		3.275	11.987		
Beam Face along A6-C6	2	7.10		0.325	4.615		
Grid 7-7	1	10.76		3.275	35.239		
Male Toilet							
Front Wall	1	3.31		2.400	7.932		
	1	3.00		2.400	7.200		
Side Walls	6	1.35		2.400	19.440		
Toilet Partition Wall	2	4.53		3.275	29.652		



	Ladies Toilet Front Wall	1	2.97		2.400	7.128		
		1	3.00		2.400	7.200		
	Ladies Toilet Partition Wall	4	1.35		2.400	12.960		
	Deduction for ...							
	Door (D1)	-8	1.00		2.15	(17.200)		
	Door (D1.2)	-4	1.20		2.15	(10.320)		
	Door (D1.5)	-2	1.50		2.25	(6.750)		
	Door (D.75)	-13	0.75		2.15	(20.963)		
	Window (W6)	-1	1.80		2.95	(5.310)		
	Window (W3)	-1	3.00		2.95	(8.850)		
	Window (W1.8)	-6	1.80		1.40	(15.120)		
	Window (W1.5)	-7	1.50		1.40	(14.700)		
	Window (W.9)	0	0.90		1.40	-		
	Addition for Jamb/Sill							
	Door (D1)	4	5.30	0.230		4.876		
	Door (D1)	2	5.30	0.115		1.219		
	Door (D1.2)	2	5.50	0.115		1.265		
	Door (D1.5)	1	6.00	0.115		0.690		
	Door (D.75)	7	5.05	0.115		4.065		
	Window (W6)	1	2.95	0.230		0.679		
	Window (W3)	1	2.95	0.230		0.679		
	Window (W1.8)	9	6.40	0.230		13.248		
	Window (W1.5)	4	5.80	0.230		5.336		
	Window (W.9)	1	4.60	0.230		1.058		
					Total	626.040	Sq.m	
	Fourth Floor							
	Grid A4-E4, A5-E5	2	15.335		3.275	100.444		
	Grid A4-A5, E4-E5	2	3.990		3.275	26.135		
	Grid C4-C5	2	3.990		3.275	26.135		
	Deduction for ..							
	Deduction for ...							
	Door (D1)	-2	1.00		2.15	(4.300)		
	Door (D1.2)	-2	1.20		2.15	(5.160)		
	Door (D1.5)	-2	1.50		2.25	(6.750)		
	Door (D.75)	-13	0.75		2.15	(20.963)		
	Window (W6)	-1	1.80		2.95	(5.310)		
	Window (W3)	-1	3.00		2.95	(8.850)		
	Window (W1.5)	-4	1.50		1.40	(8.400)		
	Addition for Jamb/Sill							
	Door (D1)	2	5.30	0.230		2.438		
	Door (D1.2)	1	5.50	0.115		0.633		
	Window (W6)	1	2.95	0.230		0.679		
	Window (W3)	1	2.95	0.230		0.679		
	Window (W1.5)	4	5.80	0.230		5.336		
					Total	102.744	Sq.m	
					Subtotal	3,373.579	Sq.m	
18	Exterior Plaster Works							
18.1	12.5mm plaster in ceiling							
	Ground Floor							
	Slab Projection (Sloped)	2	Area =	29.748		59.495		
	Slab along grid E4-F5	1	Area =	7.605		7.605		
					Total	67.100	Sq.m	
	First Floor							
	Slab Projection (Sloped)	2	Area =	29.748		59.495		
	Sloped Roof	2	Area =	22.170		44.352		
					Total	103.847	Sq.m	

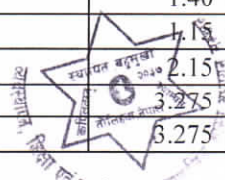


	Second Floor							
	Slab Projection (Sloped)	2	Area =	29.748		59.495		
					Total	59.495	Sq.m	
	Third Floor							
	Slab Projection (Sloped)	2	Area =	24.487		48.974		
					Total	48.974	Sq.m	
	Fourth Floor							
	Slab Projection (Sloped)	1	Area =	31.650		31.650		
					Total	31.650	Sq.m	
					Subtotal	311.067	Sq.m	
17.2	20mm Plaster (1:6 C/M) at Wall							
	Ground Floor							
	Grid A-A wall	1	20.910		4.475	93.572		
	Grid B1-B2, B7-B8, D1-D2, D7-D8	4	3.500		4.475	62.650		
	Grid A1-B2, A7-B7, D2-E2, D7-E7	4	4.000		4.475	71.600		
	Grid 1-1, 8-8	2	7.450		4.475	66.678		
	Grid E-E	1	27.450		4.475	122.839		
	Plinth Band	1	66.050		1.150	75.958		
	Flower Carry Side Wall	1	1.580		1.080	1.706		
	Flower Carry Front Wall	1	8.000		1.080	8.640		
	Disable Ramp Wall face	1	8.000		0.582	4.656		
	Porch face wall (along G-G)	1	20.450		0.300	6.135		
	Front Step Side Face	2	Area =	0.240		0.479		
	Pillar face along Grid G-G	2	1.800		4.600	16.560		
	Pillar face along Grid F-F	2	1.800		4.000	14.400		
	Beam Face along F-F	2	3.550		0.450	3.195		
	Beam Face along 4-4, 5-5	4	1.350		0.450	2.430		
	Deduction for ...							
	Window (W1.8)	-9	1.80		1.40	(22.680)		
	Window (W1.5)	-6	1.50		1.40	(12.600)		
	Window (W.9)	-4	0.90		1.40	(5.040)		
	Window (W.6)	-8	0.60		1.15	(5.520)		
	Door (MD)	-1	3.00		2.95	(8.850)		
	Stair Window	-1	1.80		1.700	(3.060)		
	Addition for slab edge at stair face	1	4.91		0.125	0.614		
					Total	494.362	Sq.m	



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First Floor							
Grid A-A wall	1	20.910		3.275	68.480		
Grid B1-B2, B7-B8, D1-D2, D7-D8	4	3.500		3.275	45.850		
Grid A1-B2, A7-B7, D2-E2, D7-E7	4	4.000		3.275	52.400		
Grid 1-1, 8-8	2	7.450		3.275	48.798		
Grid E-E	1	23.000		3.275	75.325		
Grid E4-F4, E5-F5	2	1.800		3.275	11.790		
Grid F4-F5	1	4.450		3.400	15.130		
Column Face at G-G	2	1.800		3.275	3.275		
Beam Faces along F4-G4, F5-G5	2	4.550		0.950	3.275		
Beam Face along Grid G-G	1	4.550		0.950	3.275		
Deduction for ...							
Window (W1.8)	-11	1.80		1.40	(27.720)		
Window (W1.5)	-6	1.50		1.40	(12.600)		
Window (W.9)	-6	0.90		1.40	(7.560)		
Window (W.6)	-8	0.60		1.15	(5.520)		
Stair Window	-1	1.80		3.275	(5.895)		
Addition for slab edge at stair face	1	4.91		0.125	0.614		
				Total	268.917	Sq.m	
Second Floor							
Grid A-A wall	1	20.910		3.275	68.480		
Grid B1-B2, B7-B8, D1-D2, D7-D8	4	3.500		3.275	45.850		
Grid A1-B2, A7-B7, D2-E2, D7-E7	4	4.000		3.275	52.400		
Grid 1-1, 8-8	2	7.450		3.275	48.798		
Grid E-E	1	27.910		3.275	91.405		
Deduction for ...							
Window (W1.8)	-9	1.80		1.40	(22.680)		
Window (W1.5)	-6	1.50		1.40	(12.600)		
Window (W.9)	-5	0.90		1.40	(6.300)		
Window (W.6)	-10	0.60		1.15	(6.900)		
Stair Window	-1	1.80		3.275	(5.895)		
Front Window	-1	3.00		2.525	(7.575)		
Addition for slab edge at stair face	1	4.91		0.125	0.614		
Addition for slab edge at front Window	1	1.45		0.125	0.181		
				Total	245.778	Sq.m	
Third Floor							
Grid A-A wall	1	20.910		3.275	68.480		
Grid A2-D2, A7-D7	2	11.450		3.275	74.998		
Grid D2-D3, D6-D7	2	4.000		3.275	26.200		
Grid D3-E3, D6-E6	2	4.000		3.275	26.200		
Grid E-E	1	12.910		3.275	42.280		
Deduction for ...							
Window (W1.8)	-6	1.80		1.40	(15.120)		
Window (W1.5)	-7	1.50		1.40	(14.700)		
Window (W.9)	0	0.90		1.40	-		
Window (W.6)	-8	0.60		1.15	(5.520)		
Door (D1)	-4	1.00		2.15	(8.600)		
Stair Window	-1	1.80		3.275	(5.895)		
Front Window	-1	3.00		3.275	(9.825)		



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Addition for slab edge at stair face	1	4.91		0.125	0.614		
Addition for slab edge at front Window	1	1.45		0.125	0.181		
Parapet Monuments	12	Area=	1.940		23.274		
Parapet Walls	4	17.05		0.508	34.612		
				Total	237.179	Sq.m	
Fourth Floor							
Grid A4-A5, E4-E5	2	4.450		3.275	29.148		
Grid A4-E4, A5-E5	2	15.910		3.275	104.211		
Deduction for ...							
Window (W1.5)	-4	1.50		1.40	(8.400)		
Door (D1)	-2	1.00		2.15	(4.300)		
Stair Window	-1	1.80		3.275	(5.895)		
Front Window	-1	3.00		3.275	(9.825)		
Parapet Monuments	16	Area=	1.940		31.032		
Parapet Walls	4	21.57		0.508	43.790		
Parapet Monuments (Top Floor)	8	Area=	1.940		15.516		
Parapet Walls (Top Floor)	2	39.80		0.508	40.397		
				Total	235.673	Sq.m	
				Subtotal	1,481.908	Sq.m	



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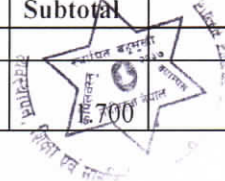
Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Quantity Estimate of Civil Works

S.N.	Description	No.	Length	Breadth	Height	Qty.	Unit	Remark
1	Site Preparation							
	For Septic Tank	1	6.490	3.360		21.806		
	Soak Pit	1		7.069		7.069		
	Soil/Waste Manhole	16	0.770	0.770		9.486		
	Underground Water Tank	1	4.250	5.250		22.313		
					SUBTOTAL	60.674	Sq.m	
2	Earth work in Excavation							
	Ussing Machine							
	Septic Tank Ditch	1	6.490	3.360	1.650	35.981		
	Soak Pit	1		3.447	3.185	10.979		
	Underground Water Tank	1	4.250	5.250	1.950	43.509		
					Total	90.469	Cu.m	
	Manual Excavation							
	Soil/Waste Manhole	16	0.770	0.770	0.725	6.878		
					Total	6.878	Cu.m	
					Subtotal	97.347	Cu.m	
3	Flat Brick Soling Works							
	<u>Septic Tank Ditch Base</u>	1	6.490	3.360		21.806		
	Soak Pit	1		3.447		3.447		
	Soil/Waste Manhole	16	0.770	0.770		9.486		
	Underground Water Tank	1	4.250	5.250		22.313		
					Total	57.052	Sq.m.	
4	P.C.C. - 1:3:6, Crushed aggregate							
	<u>Septic Tank Ditch Base</u>	1	6.290	3.060	0.075	1.444		
	Soil/Waste Manhole	16	0.770	0.770	0.075	0.711		
	Underground Water Tank	1	4.250	5.250	0.075	1.673		
					Total	3.828	Cu.m	
					Subtotal	3.828	Cu.m	
5	P.C.C. - 1:2:4 - crushed aggregate							
	<u>Soak Pit Base</u>	1	5.435	0.365	0.125	0.248		
					Total	0.248	Cu.m	
6	PPC for RCC (1:1:2) - crushed aggregate							
7	(1:1:2) Crushed Aggregate							
7.1	<u>Column</u>							
	Underground Water Tank							
	Base	1	4.500	3.500	0.125	1.969		
					Total	1.969	Cu.m	
					Subtotal	1.969	Cu.m	
7.2	<u>Shear Wall</u>							
	Underground water tank Share wall	1	16.00	0.125		3.400		



					Total	3.400	Cu.m	
8	PCC for RCC 1:1.5:3 Works							
8.1	Septic Tank							
	Septic Tank Slab	1	6.19	3.060	0.120	2.273		
	Baffal Wall	2	0.87	0.700	0.075	0.091		
	Soil/Waste Manhole	16	0.670	0.670	0.100	0.718		
	Underground Water tank cover slab	1	5.250	4.250	0.125	2.789		
					Total	5.871	cu.m	
8.2	Plywood formwork for Shear Wall							
	Septic Tank baffal wall	4	0.87		0.700	2.436		
	Water Tank shear wall	1	16.00		1.700	27.200		
					Total	29.636	Sq.m	
14	Plywood formwork for slab cover							
	Septic Tank Cover	1	6.430	3.300		21.219		
	Soil/Waste manhole cover	16	0.870	0.870		12.110		
	Water tank cover Slab	1	5.500	4.500		24.750		
					Total	58.079	Sq.m.	
15	1st Class brick Work (1:6 C/M)							
	Septic Tank Wall							
	Long Wall	2	6.19	0.230	1.500	4.271		
	Short Wall	2	2.60	0.230	1.500	1.794		
	Soak Pit Wall	1	5.43	0.230	3.000	3.750		
	Soil/Waste manhole cover	16	2.72	0.230	0.450	0.450		
	Septic Tank wall	1	18.08	0.230	1.700	0.450		
					Total	10.715	Cu.m	
17	Interior Plaster Works							
17.2	20mm Plaster (1:6 C/M) at Wall							
	Septic Tank long Wall	2	4.22		1.500	12.660		
	Septic Tank Short Wall	6	2.00		1.500	18.000		
	Water Tank Long Wall	2	5.25		1.700	17.850		
	Water Tank Short Wall	2	4.25		1.700	14.450		
	Soil/Waste Manhole	16	1.80		0.450	12.960		
					Total	75.920	Sq.m	
17	Floor Screeding Works							
	Water Tank	1	5.25		4.250	22.313		
					Total	22.313	Sq.m	
18	Net Cement Punning Works							
	Water Tank Floor	1	5.25		4.250	22.313		
	Water Tank Wall	1	19.00		1.700	32.300		
					Total	54.613	Sq.m	



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Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Summary of Quantity Estimate of Municipality Building

S.No.	Item	Upto Plinth				Super Structure				Total Quantity	Unit
		Septic/Soak/ water tank	Building	Ground	First	Second	Third	Fourth			
1	Site Clearance (uprooting of grasses, cutting of So	60.674	650.000							710.674	sqm
2	E/W in Excavation										
2.1	E/W in excavation : Using Machine (BM Soil)		1,756.004							1,756.004	Cu.m
2.2	E/W in excavation : Manual	97.347								97.347	Cu.m
3	Earth backfilling - compaction work		1,053.602							1,053.602	Cu.m
4	Earth filling (Borrowed Soil) - compaction work		263.183							263.183	Cu.m
4	Flat Brick Soling (Second Class Brick)	57.052	1,202.600	43.880	26.880	36.800	32.047			1,399.259	sqm
6	P.C.C										
6.1	P.C.C - 1:3:6, Crushed aggregate	3.828	90.195	4.388	2.688	3.680	3.205			94.023	Cum
6.2	P.C.C - 1:2:4 - crushed aggregate	0.248								14.209	Cum
7	PCC for RCC										
7.1	PPC for RCC (1:1:2) - crushed aggregate	5.369	479.846	128.351	121.375	121.375	123.582	20.726		1,000.624	Cu.m
7.1.1	Columns (With footing)		459.515	37.097	35.330	35.330	35.330	7.066		609.668	
7.1.2	Main Beam		20.331	16.672	15.795	15.795	18.002	2.935		89.530	
7.1.3	Secondary Beam										
7.1.4	Share Walls	3.400								3.400	
7.1.5	Slab	1.969		70.566	66.234	66.234	66.234	10.726		281.962	
7.1.6	Staircase			4.016	4.016	4.016	4.016			16.064	
7.2	PPC for RCC (1:1.5:3) - crushed aggregate	5.871	-	4.478	4.478	4.478	4.478	1.727		25.508	Cum
7.2.1	Lintel			2.308	2.308	2.308	2.308	0.864		10.096	
7.2.2	Sill Band			2.169	2.169	2.169	2.169	0.864		9.541	
8	Reinforcement work for R.C.C.	2.192	93.570	22.793	21.596	21.596	21.975	3.853		187.576	MT
9	Formwork										
9.1	19mm Plywood Post for Columns/Shear Walls/Foundation	29.636	195.300	296.772	282.640	282.640	282.640	-		1,369.628	Sq.m
	Columns/Foundation		195.300	296.772	282.640	282.640	282.640			1,339.992	
	Share Walls	29.636								29.636	
9.2	Plywood Form work for Beams/Lintel/Sill for Beams		234.885	235.208	224.883	224.883	250.867	33.995		1,204.720	Sq.m
	for Lintel bands		234.885	196.273	185.948	185.948	211.932	26.486		1,041.471	
	for sill bands			20.070	20.070	20.070	20.070	7.509		87.789	
				18.865	18.865	18.865	18.865	-		75.460	
9.3	19mm Plywood Form work for slab/Staircase Slab			531.725	500.255	500.255	492.925	74.970		2,100.129	Sq.m
	Staircase			502.740	471.270	471.270	463.940	74.970		2,042.269	
				28.985	28.985	28.985	28.985			115.939	
10	Brick Work										
10.1	Brick work in c.m. - 1:6 (Below GF)		166.829							177.544	Cum
10.2	Brick work in c.m. - 1:6 Ground Floor			34.965						34.965	Cum



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10.3	Brick work in c.m. - 1:6 above GF						40.075	37.083	40.647	24.456	142.261	Cum
10.4	Half brick Wall (1:4 C/M)				175.197		189.643	223.094	143.973	44.065	775.972	Sq.m
11	Plaster										-	
	Plaster Works										-	
11.1	1/2" cement plaster in Interior/external ceiling- 1:4											
	Interior Ceiling				423.240		467.729	413.940	326.572	91.876	1,723.357	Sq.m
	Exterior Ceiling				356.139		363.881	354.445	277.598	60.226	1,412.290	
	3/4" cement plaster in Walls interior/external - 1:6				75.920		103.847	59.495	48.974	31.650	311.067	
	Interior Wall				1,323.531		1,139.423	1,190.896	863.218	338.418	4,931.407	Sq.m
	Exterior Wall				829.170		870.507	945.118	626.040	102.744	3,449.499	
	3/4" Slab Boarder Band (1:3 C/M)				81.699		101.329	81.699	67.699	22.300	354.726	Rm
	Tile Design over Slab using 1:3 Cement Mortar				59.475		102.495	59.475	48.975	31.650	302.070	Sq.m
12	Flooring and Skirting Work										-	
12.1	1.5" floor Screedling works (1:2:4)											
12.2	3mm thick net cement punning				454.291		337.745	316.975	335.671	318.383	1,785.376	sqm
12.3	Marble flooring and finishing				454.291		337.745	316.975	335.671	318.383	1,817.676	sqm
12.4	Marble nosing on staircase				140.153		77.753	79.475	57.307	37.532	392.218	sqm
12.5	10mm thick Granite Clading and finishing				54.381		38.931	38.931	102.980	149.830	385.053	Rm
12.6	Ceramics non-glazed floor tiles (Cm-1:4)				5.041		5.041	8.258	5.041		23.381	sqm
12.7	Ceramic glazed tile for walls(Cm-1:4) (Height = 100mm)				33.399		35.754	51.711	29.022		149.886	sqm
12.8	Ceramic Non Glazed Tile Skirting works (Height = 100mm)				98.675		113.744	127.689	84.767		424.875	sqm
	Wood Works										-	Rm
	Slab Wood Frames				0.233						-	
	Slab Wooden paneled shutters				4.600						0.233	Cum
	Fixing 4mm thick Glasses in Ventilation				2.862						4.600	Sq.m
											2.862	Sq.m



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13	Alluminium Works												-	
13.1	Alluminium Doors												-	
	Providing and fixing Single Panel Casement (Hinged) Door of aluminium section in natural or color anodized/powder coated color Section size (102x45x1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board		42.570	46.655	50.955	34.078	6.880	181.138			Sq.m			
13.2	Alluminium Windows													
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)		40.320	47.880	41.580	29.820	8.400	168.000			Sq.m			
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.		6.735	6.195	7.575	5.520		26.025			Sq.m			
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.		3.060	6.120	14.070	14.070	15.720	53.040			Sq.m			
13.3	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete		171.273	100.167	60.974	16.215		348.629			Sq.m			
14	Painting Works													
14.1	2 coats Washable distemper painting followed by wall putty		1,185.309	1,234.388	1,299.564	903.638	162.970	4,785.869			sqm			
	Internal Ceiling		356.139	363.881	354.445	277.598	60.226	1,412.290						
	Internal Wall		829.170	870.507	945.118	626.040	102.744	3,373.579						
14.2	2 coats of Weather Coat painting (External) followed by wall putty		561.462	372.764	305.273	286.153	267.323	1,792.974			sqm			
	External Ceiling		67.100	103.847	59.495	48.974	31.650	311.067						
	External Wall		494.362	268.917	245.778	237.179	235.673	1,481.908						
	Readymade Enamel Painting Works		17.570					17.570			Sq.m			
16	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete		35.446	7.640	7.640	52.520	87.461	190.707			Sq.m			
16.1	Staircase Railing		7.640	7.640	7.640	7.640	7.640	30.560						
16.2	Parapet Railing					44.880	87.461	132.341						
16.3	Ramp Railing		27.806					27.806						



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Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Cost Estimate of Finishing Works

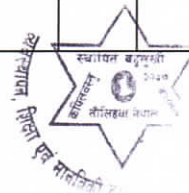
S.N.	Description	Quantity	Unit	Rate	Amount
GROUND FLOOR					
1	<u>1.5" THICK SCREEDING</u> Providing and laying, 1.5" thick screeding with 1:2:4 concrete (agg. Size 12mm) on proper slope after scraping, cleaning and watering the old surface as per drawing, specification and instruction of engineer, all complete.				
	1.5" floor Screeding works (1:2:4)	476.60	sqm	524.49	249,975.79
2	<u>CEMENT PUNNING (1:1)</u> Providing and laying, 3 mm thick cement sand punning (1:1) on floor, skirting , dado etc. including cleaning and wetting surface, mixing, laying and rubbing with steel trowel to a hard, smooth and shining surface and curing for a quality finish as per drawing, specification instruction of engineer, all complete.				
	3mm thick net cement punning	508.90	sqm	240.24	122,256.82
3	<u>MARBLE FLOORING</u> Providing and laying, 16 mm. thick and minimum 600mmx600mm size Godawari Marble in floor, dado, skirting, Staircase Steps, Landing etc. laid with 20mm thick Cement Sand mortar (1:2) in proper slope for draining wash water, joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing to smooth glazed surface and waxed finish in floor, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.				
	Marble flooring and finishing	140.15	sqm	3,764.99	527,673.99
	Marble nozing on staircase	54.38	Rm	422.91	22,998.40
4	<u>GRANITE CLADDING</u> Providing and laying, 20mm thick granite with Cement Sand mortar (1:2) in proper joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing , of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.				
	16mm thick Granite Clading and finishing	5.04	sqm	7,445.21	37,530.55
5	<u>CERAMICS GLAZED TILE</u> Supplying and fixing of Best Quality Ceramics glazed tiles on wall and floor in (1:1) cement mortar over cement plaster in (1:3) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.				
	Ceramics non-glazed floor tiles (Cm-1:4)	33.40	sqm	2,587.14	86,406.70
	Ceramic glazed tile for walls(Cm-1:4)	98.68	sqm	2,432.33	240,011.30
6	<u>WOODEN DOOR FRAME AND PANNELED SHUTTERS</u> Supplying and fitting of 'Wooden Door Frames of approved section with 6 nos. of Holdfast for Each Frame, 38mm paneled Shutter of Sall Wood, Fixing of 300mm and 150mm tower bolt, 8" Brass Handle and 12" Brass locking Set and necessary accessories as per drawings, specification and instruction of engineer, all complete.				
	Saal Wood Frames	0.23	Cu.m	100,047.20	23,260.97
	Saal Wooden paneled shutters	4.60	Sq.m	8,661.96	39,845.03
	Fixing 4mm thick Glasses in Ventilation	2.86	Sq.m	1,253.66	3,587.98



79

7	Alluminium DOORS/WINDOWS Supplying and fitting of Alluminium Doors /Windows of approved section frame and color with shutters, 5mm glass and necessary accessories as per drawings, specification and instruction of engineer, all complete.				
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102×45×1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	42.57	Sq.m	7,612.77	324,075.62
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	40.32	Sq.m	6,436.81	259,532.36
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	6.74	Sq.m	7,612.77	51,272.01
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	3.06	Sq.m	69,261.96	211,941.59
8	ALLUMINIUM PARTITIONS Supply and Fixation of Alluminium partition of approved section size with 5mm clear glass or 9mm Nepal board with all necessary fittings as per drawings, specification and instruction of engineers, all complete.				
	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	171.27	Sq.m	4,641.94	795,038.68
9	PAINTING Providing and applying, inside and outside painting work on wall and ceiling of approved color including necessary primer and a coat of plaster of parish (as per product manual) to give uniform color after rendering surface clean and moist (where necessary) as per specifications, drawings, and instruction of the engineer, all complete.				
	2 coats Washable distemper painting followed by wall putty	1,185.31	sqm	269.63	319,590.98
	2 coats of Weather Coat painting (External) followed by wall putty	561.46	sqm	429.93	241,390.77
	Readymade Enamel Painting Works	17.57	Sq.m	290.34	5,101.32
10	STAINLESS STEEL RAILING WORKS STAINLESS STEEL RAILING WORKS(3-0" Height) Supplying,fitting and fixing of Stainless steel of 202 grade in hand railing (in Staircase, Ramp, parapet) using 50mm dia of 1.5mm thick circular pipe with Designed Balustrade (Round, Squared or Plate Type as per approval of Engineer with necessary fittings & flanges for holding horizontal members & the Hand Rail above) @ 0.90mtr. c/c and stainless 1" dia. Pipe bracing in 4 rows with necessary fittings like fasteners/anchors, flanges, bracket, tee, grinding, buffing, polishing all complete as per drawings, specifications and instructions of site engineer.				
	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	35.45	Sq.m	3,395.66	120,362.65
Total Amount of Ground Floor of Finishing Work					3,681,853.53

FIRST FLOOR				
1	<u>1.5" THICK SCREEDING</u> Providing and laying, 1.5" thick screeding with 1:2:4 concrete (agg. Size 12mm) on proper slope after scraping, cleaning and watering the old surface as per drawing, specification and instruction of engineer, all complete.			
	1.5" floor Screeding works (1:2:4)	337.74	sqm	524.49
				177,145.26
2	<u>CEMENT PUNNING (1:1)</u> Providing and laying, 3 mm thick cement sand punning (1:1) on floor, skirting , dado etc. including cleaning and wetting surface, mixing, laying and rubbing with steel trowel to a hard, smooth and shining surface and curing for a quality finish as per drawing, specification instruction of engineer, all complete.			
	3mm thick net cement punning	337.74	sqm	240.24
				81,138.40
3	<u>MARBLE FLOORING</u> Providing and laying, 16 mm. thick and minimum 600mmx600mm size Godawari Marble in floor, dado, skirting, Staircase Steps, Landing etc. laid with 20mm thick Cement Sand mortar (1:2) in proper slope for draining wash water, joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing to smooth glazed surface and waxed finish in floor, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.			
	Marble flooring and finishing	77.75	sqm	3,764.99
	Marble nozing on staircase	38.93	Rm	422.91
				292,738.00
				16,464.41
4	<u>GRANITE CLADDING</u> Providing and laying, 20mm thick granite with Cement Sand mortar (1:2) in proper joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing , of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.			
	16mm thick Granite Clading and finishing	5.04	sqm	7,445.21
				37,530.55
5	<u>CERAMICS GLAZED TILE</u> Supplying and fixing of Best Quality Ceramics glazed tiles on wall and floor in (1:1) cement mortar over cement plaster in (1:3) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.			
	Ceramics non-glazed floor tiles (Cm-1:4)	35.75	sqm	2,587.14
	Ceramic glazed tile for walls(Cm-1:4)	113.74	sqm	2,432.33
				92,501.23
				276,664.30
6	<u>TILE SKIRTING WORKS</u> Supplying and fixing of Ceramic glazed tiles on wall with 5" height for skirting in (1:1) cement mortar over cement plaster in (1:4) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.			
	Ceramic Non Glazed Tile Skirting works (Height =100mm)	-	Rm	323.99
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7	<u>Alluminium DOORS/WINDOWS</u> Supplying and fitting of Alluminium Doors /Windows of approved section frame and color with shutters, 5mm glass and necessary accessories as per drawings, specification and instruction of engineer, all complete.			
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102x45x1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	46.66	Sq.m	7,612.77
				355,173.78
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	47.88	Sq.m	6,436.81
				308,194.68



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	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	6.20	Sq.m	7,612.77	47,161.11
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	6.12	Sq.m	69,261.96	423,883.19
8	<u>ALLUMINIUM PARTITIONS</u> Supply and Fixation of Alluminium partition of approved section size with 5mm clear glass or 9mm Nepal board with all necessary fittings as per drawings, specification and instruction of engineers, all complete.				
	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	100.17	Sq.m	4,641.94	464,969.14
9	<u>PAINTING</u> Providing and applying, inside and outside painting work on wall and ceiling of approved color including necessary primer and a coat of plaster of parish (as per product manual) to give uniform color after rendering surface clean and moist (where necessary) as per specifications, drawings, and instruction of the engineer, all complete.				
	2 coats Washable distemper painting followed by wall putty	1,234.39	sqm	269.63	332,824.04
	2 coats of Weather Coat painting (External) followed by wall putty	372.76	sqm	429.93	160,263.42
10	<u>STAINLESS STEEL RAILING WORKS</u> STAINLESS STEEL RAILING WORKS(3-0" Height) Supplying,fitting and fixing of Stainless steel of 202 grade in hand railing (in Staircase, Ramp, parapet) using 50mm dia of 1.5mm thick circular pipe with Designed Balustrade (Round, Squared or Plate Type as per approval of Engineer with necessary fittings & flanges for holding horizontal members & the Hand Rail above) @ 0.90mtr. c/c and stainless 1" dia. Pipe bracing in 4 rows with necessary fittings like fasteners/anchors, flanges, bracket, tee, grinding, buffing, polishing all complete as per drawings, specifications and instructions of site engineer.				
	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	7.64	Sq.m	3,395.66	25,942.86
Total Amount of First Floor of Finishing Work					3,092,594.37

SECOND FLOOR

1	<u>1.5" THICK SCREEDING</u> Providing and laying, 1.5" thick screeding with 1:2:4 concrete (agg. Size 12mm) on proper slope after scraping, cleaning and watering the old surface as per drawing, specification and instruction of engineer, all complete.				
	1.5" floor Screeding works (1:2:4)	316.98	sqm	524.49	166,251.87
2	<u>CEMENT PUNNING (1:1)</u> Providing and laying, 3 mm thick cement sand punning (1:1) on floor, skirting , dado etc. including cleaning and wetting surface, mixing, laying and rubbing with steel trowel to a hard, smooth and shining surface and curing for a quality finish as per drawing, specification instruction of engineer, all complete.				
	3mm thick net cement punning	316.98	sqm	240.24	76,148.87
3	<u>MARBLE FLOORING</u>				



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	Providing and laying, 16 mm. thick and minimum 600mmx600mm size Godawari Marble in floor, dado, skirting, Staircase Steps, Landing etc. laid with 20mm thick Cement Sand mortar (1:2) in proper slope for draining wash water, joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing to smooth glazed surface and waxed finish in floor, of the approved colour and quality, as per drawing, specification and instruction of engineer. all complete.				
	Marble flooring and finishing	79.47	sqm	3,764.99	299,221.70
	Marble nozing on staircase	38.93	Rm	422.91	16,464.41
4	<u>GRANITE CLADDING</u> Providing and laying, 20mm thick granite with Cement Sand mortar (1:2) in proper joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.				
	16mm thick Granite Clading and finishing	8.26	sqm	7,445.21	61,485.50
5	<u>CERAMICS GLAZED TILE</u> Supplying and fixing of Best Quality Ceramics glazed tiles on wall and floor in (1:1) cement mortar over cement plaster in (1:3) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.				
	Ceramics non-glazed floor tiles (Cm-1:4)	51.71	sqm	2,587.14	133,782.72
	Ceramic glazed tile for walls(Cm-1:4)	127.69	sqm	2,432.33	310,582.78
6	<u>TILE SKIRTING WORKS</u> Supplying and fixing of Ceramic glazed tiles on wall with 5" height for skirting in (1:1) cement mortar over cement plaster in (1:4) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.				
	Ceramic Non Glazed Tile Skirting works (Height =100mm)	-	Rm	323.99	-
7	<u>Alluminium DOORS/WINDOWS</u> Supplying and fitting of Alluminium Doors /Windows of approved section frame and color with shutters, 5mm glass and necessary accessories as per drawings, specification and instruction of engineer, all complete.				
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102×45×1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	50.96	Sq.m	7,612.77	387,908.70
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	41.58	Sq.m	6,436.81	267,642.75
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	7.58	Sq.m	7,612.77	57,666.73
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	14.07	Sq.m	69,261.96	974,515.76
8	<u>ALLUMINIUM PARTITIONS</u> Supply and Fixation of Alluminium partition of approved section size with 5mm clear glass or 9mm Nepal board with all necessary fittings as per drawings, specification and instruction of engineers, all complete.				
	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	60.97	Sq.m	4,641.94	283,039.16
9	<u>PAINTING</u>				

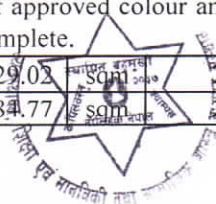


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	Providing and applying, inside and outside painting work on wall and ceiling of approved color including necessary primer and a coat of plaster of parish (as per product manual) to give uniform color after rendering surface clean and moist (where necessary) as per specifications, drawings, and instruction of the engineer, all complete.				
	2 coats Washable distemper painting followed by wall putty	1,299.56	sqm	269.63	350,397.07
	2 coats of Weather Coat painting (External) followed by wall putty	305.27	sqm	429.93	131,246.87
10	<u>STAINLESS STEEL RAILING WORKS</u> STAINLESS STEEL RAILING WORKS(3-0" Height) Supplying,fitting and fixing of Stainless steel of 202 grade in hand railing (in Staircase, Ramp, parapet) using 50mm dia of 1.5mm thick circular pipe with Designed Balustrade (Round, Squared or Plate Type as per approval of Engineer with necessary fittings & flanges for holding horizontal members & the Hand Rail above) @ 0.90mtr. c/c and stainless 1" dia. Pipe bracing in 4 rows with necessary fittings like fasteners/anchors, flanges, bracket, tee, grinding, buffing, polishing all complete as per drawings, specifications and instructions of site engineer.				
	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	7.64	Sq.m	3,395.66	25,942.86
Total Amount of Second Floor of Finishing Work					3,542,297.75

THIRD FLOOR

1	<u>1.5" THICK SCREEDING</u> Providing and laying, 1.5" thick screeding with 1:2:4 concrete (agg. Size 12mm) on proper slope after scraping, cleaning and watering the old surface as per drawing, specification and instruction of engineer, all complete.				
	1.5" floor Screeding works (1:2:4)	335.67	sqm	524.49	176,057.39
2	<u>CEMENT PUNNING (1:1)</u> Providing and laying, 3 mm thick cement sand punning (1:1) on floor, skirting, dado etc. including cleaning and wetting surface, mixing, laying and rubbing with steel trowel to a hard, smooth and shining surface and curing for a quality finish as per drawing, specification instruction of engineer, all complete.				
	3mm thick net cement punning	335.67	sqm	240.24	80,640.13
3	<u>MARBLE FLOORING</u> Providing and laying, 16 mm. thick and minimum 600mmx600mm size Godawari Marble in floor, dado, skirting, Staircase Steps, Landing etc. laid with 20mm thick Cement Sand mortar (1:2) in proper slope for draining wash water, joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing to smooth glazed surface and waxed finish in floor, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.				
	Marble flooring and finishing	57.31	sqm	3,764.99	215,758.90
	Marble nozing on staircase	102.98	Rm	422.91	43,551.36
4	<u>GRANITE CLADDING</u> Providing and laying, 20mm thick granite with Cement Sand mortar (1:2) in proper joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.				
	16mm thick Granite Cladding and finishing	5.04	sqm	7,445.21	37,530.55
5	<u>CERAMICS GLAZED TILE</u> Supplying and fixing of Best Quality Ceramics glazed tiles on wall and floor in (1:1) cement mortar over cement plaster in (1:3) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.				
	Ceramics non-glazed floor tiles (Cm-1:4)	29.02	sqm	2,587.14	75,084.58
	Ceramic glazed tile for walls(Cm-1:4)	84.77	sqm	2,432.33	206,180.49



6	TILE SKIRTING WORKS Supplying and fixing of Ceramic glazed tiles on wall with 5" height for skirting in (1:1) cement mortar over cement plaster in (1:4) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.				
	Ceramic Non Glazed Tile Skirting works (Height =100mm)	-	Rm	323.99	-
7	Alluminium DOORS/WINDOWS Supplying and fitting of Alluminium Doors /Windows of approved section frame and color with shutters, 5mm glass and necessary accessories as per drawings, specification and instruction of engineer, all complete.				
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102×45×1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	34.08	Sq.m	7,612.77	259,424.17
	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	29.82	Sq.m	6,436.81	191,945.81
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	5.52	Sq.m	7,612.77	42,022.49
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	14.07	Sq.m	69,261.96	974,515.76
8	ALLUMINIUM PARTITIONS Supply and Fixation of Alluminium partition of approved section size with 5mm clear glass or 9mm Nepal board with all necessary fittings as per drawings, specification and instruction of engineers, all complete.				
	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	16.22	Sq.m	4,641.94	75,269.03
9	PAINTING Providing and applying, inside and outside painting work on wall and ceiling of approved color including necessary primer and a coat of plaster of parish (as per product manual) to give uniform color after rendering surface clean and moist (where necessary) as per specifications, drawings, and instruction of the engineer, all complete.				
	2 coats Washable distemper painting followed by wall putty	903.64	sqm	269.63	243,644.95
	2 coats of Weather Coat painting (External) followed by wall putty	286.15	sqm	429.93	123,026.34
10	STAINLESS STEEL RAILING WORKS STAINLESS STEEL RAILING WORKS(3-0" Height) Supplying,fitting and fixing of Stainless steel of 202 grade in hand railing (in Staircase, Ramp, parapet) using 50mm dia of 1.5mm thick circular pipe with Designed Balustrade (Round, Squared or Plate Type as per approval of Engineer with necessary fittings & flanges for holding horizontal members & the Hand Rail above) @ 0.90mtr. c/c and stainless 1" dia. Pipe bracing in 4 rows with necessary fittings like fasteners/anchors, flanges, bracket, tee, grinding, buffing, polishing all complete as per drawings, specifications and instructions of site engineer.				



Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	52.52	Sq.m	3,395.66	178,340.19
Total Amount of Third Floor of Finishing Work				2,922,992.14

FOURTH FLOOR				
1	<u>1.5" THICK SCREEDING</u> Providing and laying, 1.5" thick screeding with 1:2:4 concrete (agg. Size 12mm) on proper slope after scraping, cleaning and watering the old surface as per drawing, specification and instruction of engineer, all complete.			
	1.5" floor Screeding works (1:2:4)	318.38	sqm	524.49
2	<u>CEMENT PUNNING (1:1)</u> Providing and laying, 3 mm thick cement sand punning (1:1) on floor, skirting , dado etc. including cleaning and wetting surface, mixing, laying and rubbing with steel trowel to a hard, smooth and shining surface and curing for a quality finish as per drawing, specification instruction of engineer, all complete.			
	3mm thick net cement punning	318.38	sqm	240.24
3	<u>MARBLE FLOORING</u> Providing and laying, 16 mm. thick and minimum 600mmx600mm size Godawari Marble in floor, dado, skirting, Staircase Steps, Landing etc. laid with 20mm thick Cement Sand mortar (1:2) in proper slope for draining wash water, joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing to smooth glazed surface and waxed finish in floor, of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.			
	Marble flooring and finishing	37.53	sqm	3,764.99
	Marble nozing on staircase	149.83	Rm	422.91
4	<u>GRANITE CLADDING</u> Providing and laying, 20mm thick granite with Cement Sand mortar (1:2) in proper joint not exceeding 3 mm. and pointed with White Cement slurry, grinding, polishing , of the approved colour and quality, as per drawing, specification and instruction of engineer, all complete.			
	16mm thick Granite Clading and finishing	-	sqm	7,445.21
5	<u>CERAMICS GLAZED TILE</u> Supplying and fixing of Best Quality Ceramics glazed tiles on wall and floor in (1:1) cement mortar over cement plaster in (1:3) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.			
	Ceramics non-glazed floor tiles (Cm-1:4)	-	sqm	2,587.14
	Ceramic glazed tile for walls(Cm-1:4)	-	sqm	2,432.33
6	<u>TILE SKIRTING WORKS</u> Supplying and fixing of Ceramic glazed tiles on wall with 5" height for skirting in (1:1) cement mortar over cement plaster in (1:4) in perfect line and level of approved colour and quality as per drawing, specification and instruction of engineer, all complete.			
	Ceramic Non Glazed Tile Skirting works (Height =100mm)	-	Rm	323.99
7	<u>Alluminium DOORS/WINDOWS</u> Supplying and fitting of Alluminium Doors /Windows of approved section frame and color with shutters, 5mm glass and necessary accessories as per drawings, specification and instruction of engineer, all complete.			
	Providing and fixing Single Panel Casement (Hinged) Door of aluminum section in natural or color anodized/powder coated color Section size (102×45×1.5 mm) fitted with 5 mm clear glass or 9 mm both side laminated board	6.88	Sq.m	7,612.77



	Aluminium Sliding Window with or without fixed ventilation with naturally anodized aluminium (Section 101.6mm*44mm*1.5mm) with 5mm th. Clear glass and steel net including materials and labour and fixing and fitting all complete (Size >20 Sq.ft.)	8.40	Sq.m	6,436.81	54,069.24
	Supply and fixing of Casement Single panel aluminium Windows. Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	-	Sq.m	7,612.77	-
	Supply and fixing of aluminium Fixed Glazed Windows with Section size (54*33*1.5)mm, (101*45*1.5)mm and 5mm glass.	15.72	Sq.m	69,261.96	1,088,797.99
8	<u>ALLUMINIUM PARTITIONS</u> Supply and Fixation of Alluminium partition of approved section size with 5mm clear glass or 9mm Nepal board with all necessary fittings as per drawings, specification and instruction of engineers, all complete.				
	Aluminium Partition with naturally anodized aluminium (Section 63*38*1.5 mm) with 5 mm th. Clear glass including materials and labour and fixing and fitting all complete	-	Sq.m	4,641.94	-
9	<u>PAINTING</u> Providing and applying, inside and outside painting work on wall and ceiling of approved color including necessary primer and a coat of plaster of parish (as per product manual) to give uniform color after rendering surface clean and moist (where necessary) as per specifications, drawings, and instruction of the engineer, all complete.				
	2 coats Washable distemper painting followed by wall putty	162.97	sqm	269.63	43,941.06
	2 coats of Weather Coat painting (External) followed by wall putty	267.32	sqm	429.93	114,931.03
10	<u>STAINLESS STEEL RAILING WORKS</u> STAINLESS STEEL RAILING WORKS(3-0" Height) Supplying,fitting and fixing of Stainless steel of 202 grade in hand railing (in Staircase, Ramp, parapet) using 50mm dia of 1.5mm thick circular pipe with Designed Balustrade (Round, Squared or Plate Type as per approval of Engineer with necessary fittings & flanges for holding horizontal members & the Hand Rail above) @ 0.90mtr. c/c and stainless 1" dia. Pipe bracing in 4 rows with necessary fittings like fasteners/anchors, flanges, bracket, tee, grinding, buffing, polishing all complete as per drawings, specifications and instructions of site engineer.				
	Stainless Steel Railing with 2" dia. Top, 1" dia. Middle and bottom pipe in 3 rows total, 2" dia. Posts at 1m c/c finish clear height including the cost of materials and labour and fixing and fitting all complete	87.46	Sq.m	3,395.66	296,989.40
Total Amount of Fourth Floor of Finishing Work					2,099,252.23



Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Cost Estimate of Civil Works

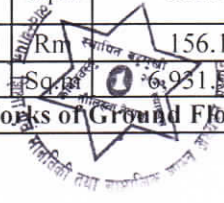
S.N.	Description	Quantity	Unit	Rate	Amount
SITE CLEARANCE					
	Preparation of site including excavation of soil for levelling ground , removing loose earth, soil and brick- bats etc. as per drawing, specification and instruction of the engineer, all complete.				
	Site Clearance (uprooting of grasses, cutting of Soil heaps/removing of surplus Soil and leveling of Ground for preparation of Construction Site)	710.67	sqm	19.54	13,889.59
Total Amount for site preparation					13,889.59
UPTO PLINTH LEVEL					
1	EARTH WORK IN EXCAVATION				
	Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including lift up to 2.5m timbering, dewatering by manual or mechanical means etc. as per specifications with all contractor's own machinery and equipments, providing crossing of track, shoring, strutting, timbering and buttressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises up to a lead of 30m, etc. all complete as per drawings, specifications and instructions of the Engineer.				
1.1	E/W in excavation. : Using Machine (BM Soil)	1,756.00	Cu.m	82.31	144,542.50
1.2	E/W in excavation. : Manual	97.35	Cu.m	488.01	47,506.55
2	EARTH BACKFILLING				
	Earth work in filling in foundation, floor etc. shall be done with good excavated soil in the floor with proper ramming in 20cm layers ,after sprinkling water and consolidating to 15 cm layer including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc. , as per drawing, specification and instruction of engineer, all complete				
	Earth backfilling - compaction work	1,053.60	Cu.m	305.01	321,357.91
	Earth filling (Borrowed Soil) - compaction work	263.18	cu.m.	7,462.45	1,963,985.65
3	BRICK SOLING				
	Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and				
	Flat Brick Soling (Second Class Brick)	1,259.65	sqm	713.79	899,127.66
4	PLAIN CEMENT CONCRETE WORK				
	Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.				
	P.C.C. - 1:3:6, Crushed aggregate	94.02	Cum	7,304.01	686,748.80
	P.C.C. - 1:2:4 - crushed aggregate	0.25	Cum	8,908.99	2,209.16
5	P.C.C. FOR R.C.C				



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	Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength without impairing strength and durability as per direction of Engineer for the following grades of the structural concrete: (Mix design is essential)				
	PPC for RCC (1:1.5:3) - crushed aggregate	5.87	Cum	10,401.75	61,069.69
	PPC for RCC (1:1:2) - crushed aggregate	485.22	cu.m.	14,237.22	6,908,113.89
6	STEEL REINFORCEMENT				
	Providing and laying, steel reinforcement bar including straightening, cleaning, cutting, bending, binding with 20 SWG annealed tying wire and fixing in positions as per drawing, specifications and instructions of the engineer, all complete.				
	Reinforcement work for R.C.C.	95.76	MT	122,820.00	11,761,468.69
7	FORMWORK				
	Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.				
	19mm Plywood Post for Columns/Shear Walls/Foundation	224.94	Sq.m	518.08	116,535.44
	19mm Plywood Form work for slab/Staircase	-	Sq.m	609.69	-
	Plywood Form work for Beam/Lintel/Sill	234.89	Sq.m	787.98	185,084.06
8	BRICK WORK IN FOUNDATION				
	Providing and laying, brickwork in foundation with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per drawings, specification and instruction of engineer, all complete.				
	Brick work in c.m. - 1:6 (Below GF)	177.54	Cum	12,414.46	2,204,118.72
Total Amount of Civil Works upto Plinth Level					25,301,868.73
GROUND FLOOR					
1	BRICK SOLING				
	Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and instruction of engineer, all complete.				
	Flat Brick Soling (Second Class Brick)	43.88	sqm	713.79	31,321.12
2	PLAIN CEMENT CONCRETE WORK				
	Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.				
	P.C.C. - 1:3:6, Crushed aggregate		Cum	7,304.01	-
	P.C.C. - 1:2:4 - crushed aggregate	4,639.99	Cum	8,908.99	39,092.66

3	<p><u>P.C.C. FOR R.C.C</u> Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength without imparing strength and durability as per direction of Engineer for the following grades of the structural concrete: (Mix design is essential)</p>																				
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5	<p><u>FORMWORK</u> Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.</p>																				
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6	<p><u>BRICK WORK IN GROUND FLOOR</u> Providing and laying, brickwork in Superstructure with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per drawings, specification and instruction of engineer, all complete.</p>																				
	<table border="1"> <tr> <td>Brick work in c.m. - 1:6 Ground Floor</td> <td>34.96</td> <td>Cum</td> <td>12,614.36</td> <td>441,056.87</td> </tr> <tr> <td>Half Brick Wall (1:4 C/M)</td> <td>175.20</td> <td>Sq.m</td> <td>1,487.86</td> <td>260,669.50</td> </tr> </table>	Brick work in c.m. - 1:6 Ground Floor	34.96	Cum	12,614.36	441,056.87	Half Brick Wall (1:4 C/M)	175.20	Sq.m	1,487.86	260,669.50										
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7	<p><u>CEMENT SAND PLASTER</u> Providing and laying, cement sand plastering on floor, wall, ceiling, skirting, dado, cornices, etc. of good finish, including raking the joints, cleaning and wetting the surface and curing the works all complete, as per drawing, specification and instruction of</p>																				
	<p>Plaster Works</p> <table border="1"> <tr> <td>1/2" cement plaster in Interior/external ceilling- 1:4</td> <td>423.24</td> <td>Sq.m</td> <td>371.86</td> <td>157,384.81</td> </tr> <tr> <td>3/4" cement plaster in Walls interior/external - 1:6</td> <td>1,399.45</td> <td>Sq.m</td> <td>358.14</td> <td>501,192.51</td> </tr> <tr> <td>3/4" Slab Boarder Band (1:3 C/M)</td> <td>81.70</td> <td>Rm</td> <td>156.14</td> <td>12,756.60</td> </tr> <tr> <td>Tile Design over Slab using 1:3 Cement Mortar</td> <td>59.48</td> <td>Sq.m</td> <td>931.96</td> <td>412,278.23</td> </tr> </table>	1/2" cement plaster in Interior/external ceilling- 1:4	423.24	Sq.m	371.86	157,384.81	3/4" cement plaster in Walls interior/external - 1:6	1,399.45	Sq.m	358.14	501,192.51	3/4" Slab Boarder Band (1:3 C/M)	81.70	Rm	156.14	12,756.60	Tile Design over Slab using 1:3 Cement Mortar	59.48	Sq.m	931.96	412,278.23
1/2" cement plaster in Interior/external ceilling- 1:4	423.24	Sq.m	371.86	157,384.81																	
3/4" cement plaster in Walls interior/external - 1:6	1,399.45	Sq.m	358.14	501,192.51																	
3/4" Slab Boarder Band (1:3 C/M)	81.70	Rm	156.14	12,756.60																	
Tile Design over Slab using 1:3 Cement Mortar	59.48	Sq.m	931.96	412,278.23																	
Total Amount of Civil Works of Ground Floor				7,192,436.73																	



FIRST FLOOR				
1	<u>BRICK SOLING</u> Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and instruction of engineer, all complete.			
	Flat Brick Soling (Second Class Brick)	26.88	sqm	713.79
2	<u>PLAIN CEMENT CONCRETE WORK</u> Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.			
	P.C.C. - 1:3:6, Crushed aggregate	-	Cum	7,304.01
	P.C.C. - 1:2:4 - crushed aggregate	2.69	Cum	8,908.99
3	<u>P.C.C. FOR R.C.C</u> Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength without imparing strength and durability as per direction of Engineer for the following grades of the structural concrete: (Mix design is essential)			
	PPC for RCC (1:1.5:3) - crushed aggregate	4.48	Cum	10,401.75
	PPC for RCC (1:1:2) - crushed aggregate	121.37	cu.m.	14,237.22
4	<u>STEEL REINFORCEMENT</u> Providing and laying, steel reinforcement bar including straightening, cleaning, cutting, bending, binding with 20 SWG annealed tying wire and fixing in positions as per drawing, specifications and instructions of the engineer, all complete.			
	Reinforcement work for R.C.C.	21.60	MT	122,820.00
5	<u>FORMWORK</u> Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.			
	19mm Plywood Post for Columns/Shear Walls/Foundation	282.64	Sq.m	518.08
	19mm Plywood Form work for slab/Staircase	500.25	Sq.m	609.69
	Plywood Form work for Beam/Lintel/Sill	224.88	Sq.m	787.98
6	<u>BRICK WORK IN FIRST FLOOR</u> Providing and laying, brickwork in Superstructure with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per drawings, specification and instruction of engineer, all complete.			
	Brick work in c.m. - 1:6 above GF	40.07	Cum	12,919.37

	Half Brick Wall (1:4 C/M)	189.64	Sq.m	1,487.86	282,163.09
7	CEMENT SAND PLASTER Providing and laying, cement sand plastering on floor, wall, ceiling, skirting, dado, cornices, etc. of good finish, including raking the joints, cleaning and wetting the surface and curing the works all complete, as per drawing, specification and instruction of engineer, all complete.				
	Plaster Works				
	1/2" cement plaster in Interior/external ceiling- 1:4	467.73	Sq.m	371.86	173,928.51
	3/4" cement plaster in Walls interior/external - 1:6	1,139.42	Sq.m	358.14	408,067.40
	3/4" Slab Boarder Band (1:3 C/M)	101.33	Rm	156.14	15,821.59
	Tile Design over Slab using 1:3 Cement Mortar	102.50	Sq.m	6,931.96	710,491.09
	Total Amount of Civil Works of Ground Floor				7,207,039.76
SECOND FLOOR					
1	BRICK SOLING Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and instruction of engineer, all complete.				
	Flat Brick Soling (Second Class Brick)	36.80	sqm	713.79	26,267.48
2	PLAIN CEMENT CONCRETE WORK Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.				
	P.C.C. - 1:3:6, Crushed aggregate	-	Cum	7,304.01	-
	P.C.C. - 1:2:4 - crushed aggregate	3.68	Cum	8,908.99	32,785.10
3	P.C.C. FOR R.C.C Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength without imparing strength and durability as per direction of Engineer for the following grades of the structural concrete: (Mix design is essential)				
	PPC for RCC (1:1.5:3) - crushed aggregate	4.48	Cum	10,401.75	46,574.12
	PPC for RCC (1:1:2) - crushed aggregate	121.37	cu.m.	14,237.22	1,728,037.89
4	STEEL REINFORCEMENT Providing and laying, steel reinforcement bar including straightening, cleaning, cutting, bending, binding with 20 SWG annealed tying wire and fixing in positions as per drawing, specifications and instructions of the engineer, all complete.				
	Reinforcement work for R.C.C.	21.60	MT	122,820.00	2,652,450.64



900

5	FORMWORK Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.				
	19mm Plywood Post for Columns/Shear Walls/Foundation	282.64	Sq.m	518.08	146,430.89
	19mm Plywood Form work for slab/Staircase	500.25	Sq.m	609.69	304,998.79
	Plywood Form work for Beam/Lintel/Sill	224.88	Sq.m	787.98	177,201.99
6	BRICK WORK IN SECOND FLOOR Providing and laying, brickwork in Superstructure with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per drawings, specification and instruction of engineer, all complete.				
	Brick work in c.m. - 1:6 above GF	37.08	Cum	12,919.37	479,086.27
	Half Brick Wall (1:4 C/M)	223.09	Sq.m	1,487.86	331,932.75
7	CEMENT SAND PLASTER Providing and laying, cement sand plastering on floor, wall, ceiling, skirting, dado, cornices, etc. of good finish, including raking the joints, cleaning and wetting the surface and curing the works all complete, as per drawing, specification and instruction of				
	Plaster Works				
	1/2" cement plaster in Interior/external ceilling- 1:4	413.94	Sq.m	371.86	153,926.85
	3/4" cement plaster in Walls interior/external - 1:6	1,190.90	Sq.m	358.14	426,501.68
	3/4" Slab Boarder Band (1:3 C/M)	81.70	Rm	156.14	12,756.60
	Tile Design over Slab using 1:3 Cement Mortar	59.48	Sq.m	6,931.96	412,278.23
Total Amount of Civil Works of Second Floor					6,931,229.28
THIRD FLOOR					
1	BRICK SOLING Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and				
	Flat Brick Soling (Second Class Brick)	32.05	sqm	713.79	22,874.84
2	PLAIN CEMENT CONCRETE WORK Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.				
	P.C.C. - 1:3:6, Crushed aggregate	-	Cum	7,304.01	-
	P.C.C. - 1:2:4 - crushed aggregate	3.20	Cum	8,908.99	28,550.65
3	P.C.C. FOR R.C.C				



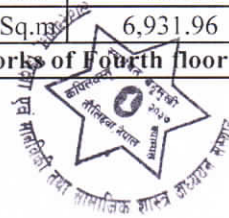
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	Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength				
	PPC for RCC (1:1.5:3) - crushed aggregate	4.48	Cum	10,401.75	46,574.12
	PPC for RCC (1:1:2) - crushed aggregate	123.58	cu.m.	14,237.22	1,759,462.53
4	<u>STEEL REINFORCEMENT</u> Providing and laying, steel reinforcement bar including straightening, cleaning, cutting, bending, binding with 20 SWG annealed tying wire and fixing in positions as per drawing, specifications and instructions of the engineer, all complete.				
	Reinforcement work for R.C.C.	21.98	MT	122,820.00	2,698,969.78
5	<u>FORMWORK</u> Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.				
	19mm Plywood Post for Columns/Shear Walls/Foundation	282.64	Sq.m	518.08	146,430.89
	19mm Plywood Form work for slab/Staircase	492.92	Sq.m	609.69	300,529.78
	Plywood Form work for Beam/Lintel/Sill	250.87	Sq.m	787.98	197,677.26
6	<u>BRICK WORK IN CEMENT SAND MORTAR</u> Providing and laying, brickwork in Suprstructure with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per				
	Brick work in c.m. - 1:6 above GF	40.65	Cum	12,919.37	525,134.91
	Half Brick Wall (1:4 C/M)	143.97	Sq.m	1,487.86	214,212.64
7	<u>CEMENT SAND PLASTER</u> Providing and laying, cement sand plastering on floor, wall, ceiling, skirting, dado, cornices, etc. of good finish, including raking the joints, cleaning and wetting the surface and curing the works all complete, as per drawing, specification and instruction of				
	Plaster Works				
	1/2" cement plaster in Interior/external ceiling- 1:4	326.57	Sq.m	371.86	121,438.34
	3/4" cement plaster in Walls interior/external - 1:6	863.22	Sq.m	358.14	309,148.72
	3/4" Slab Boarder Band (1:3 C/M)	67.70	Rm	156.14	10,570.63
	Tile Design over Slab using 1:3 Cement Mortar	48.98	Sq.m	6,931.96	339,492.67
Total Amount of Civil Works of Third Floor					6,721,067.76
FOURTH FLOOR					
1	<u>BRICK SOLING</u> Providing and laying, dry brick soling in floor with first class chimney made bricks complete to level including sand filling on joints, as per drawing, specification and				
	Flat Brick Soling (Second Class Brick)	-	sqm	713.79	
2	<u>PLAIN CEMENT CONCRETE WORK</u>				



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	Providing and laying, plain cement concrete in foundation and floor with cement, sand and coarse aggregate including mixing, laying in panels providing proper slopes, lines and level and curing, as per drawing, specification and instructions of engineer, all complete.				
	P.C.C. - 1:3:6, Crushed aggregate	-	Cum	7,304.01	-
	P.C.C. - 1:2:4 - crushed aggregate	-	Cum	8,908.99	-
3	<u>P.C.C. FOR R.C.C</u> Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with various design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centring, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength				
	PPC for RCC (1:1.5:3) - crushed aggregate	1.73	Cum	10,401.75	17,964.56
	PPC for RCC (1:1:2) - crushed aggregate	20.73	cu.m.	14,237.22	295,087.04
4	<u>STEEL REINFORCEMENT</u> Providing and laying, steel reinforcement bar including straightening, cleaning, cutting, bending, binding with 20 SWG annealed tying wire and fixing in positions as per drawing, specifications and instructions of the engineer, all complete.				
	Reinforcement work for R.C.C.	3.85	MT	122,820.00	473,228.57
5	<u>FORMWORK</u> Supplying and laying centering, shuttering of various pattern formworks with 19mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, deshuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer				
	19mm Plywood Post for Columns/Shear Walls/Foundation	-	Sq.m	518.08	-
	19mm Plywood Form work for slab/Staircase	74.97	Sq.m	609.69	45,708.23
	Plywood Form work for Beam/Lintel/Sill	34.00	Sq.m	787.98	26,787.43
6	<u>BRICK WORK IN CEMENT MORTAR</u> Providing and laying, brickwork in Superstructure with approved quality first class chimney made brick in 1:6 cement mortar (1 cement : 6 coarse sand) in perfect line and level, finished including wetting the bricks, packing the joints and curing the work and necessary scaffolding, complete in all types and thickness of walls, columns, etc. as per				
	Brick work in c.m. - 1:6 above GF	24.46	Cum	12,919.37	315,962.28
	Half Brick Wall (1:4 C/M)	44.07	Sq.m	1,487.86	65,562.73
7	<u>CEMENT SAND PLASTER</u> Providing and laying, cement sand plastering on floor, wall, ceiling, skirting, dado, cornices, etc. of good finish, including raking the joints, cleaning and wetting the surface and curing the works all complete, as per drawing, specification and instruction of				
	Plaster Works				
	1/2" cement plaster in Interior/external ceiling- 1:4	91.88	Sq.m	371.86	34,164.69
	3/4" cement plaster in Walls interior/external - 1:6	338.42	Sq.m	358.14	121,199.16
	3/4" Slab Boarder Band (1:3 C/M)	22.30	Rm	156.14	3,481.95
	Tile Design over Slab using 1:3 Cement Mortar	31.65	Sq.m	6,931.96	219,396.49
Total Amount of Civil Works of Fourth floor					1,618,543.12



Ministry of Social Development

Kapilvastu Multiple Campus
Taulihawa, Province No. 5, Nepal

Project: Preparation of DPR of Kapilvastu Multiple Campus, Taulihawa

Provisional Sum

S.N.	Description	Unit	Quantity	Rate	Amount
1.0	Provide Insurance to permanent works and construction equipments and against to work force and engineer's staffs all complete	L.S.	1.000	200,000.00	200,000.00
2.0	Insurance Premium for Third Party liability personal	L.S.	1.000	25,000.00	25,000.00
3.0	Provide Laboratory test facilities for materials and concrete cube tests for the period of contract as per specification and instruction of site incharge	L.S.	1.000	100,000.00	100,000.00
4.0	Provide and maintain all the lights ,guards,.fencing netting warning signs project sign board and watching for the protection of the works for the safety and convinces of the public or other as per contract specification and instruction of site engineer	L.S.	1.000	25,000.00	25,000.00
5.0	Preparation of As Built Drawings after complection of the works all complete	L.S.	1.000	20,000.00	20,000.00
Total Amount					370,000.00

