

DEPARTMENT OF QUANTITY SURVEYING. ESTIMATING AND BUDGETING FOR THE PROPOSED MEDIUM SCALE BUILDING.

(A CASE OF STUDY OF AN ESTIMATE AND BUDGET FOR PROPOSED FOUR(4) BEDROOM DUPLEX FOR DR.MUHAMMED BASHIR KOLAWOLE AT NO. 25, ONILETE QUARTERS, IWO, OSUN STATE)

BY

ND/23/QTS/FT/0007 ODLND23QTS0003 ODLND23QTS0002 ODLND23QTS0001 ND/23/QTS/FT/0008 ND/23/QTS/PT/0020 ND/23/QTS/PT/00021

SUBMITTED TO THE DEPARTMENT OF QUANTITY SURVEYING INSTITUTE OF ENVIRONMENTAL STUDIES (IES) KWARA STATE POLYTECHNIC ILORIN, KWARA STATE

INPARTIAL FULFILMENT OF THE REQUIREMENT FOR THE AWARD OF NATIONAL DIPLOMA (ND) IN DEPARTMENT OF QUANTITY SURVEYING.

JULY, 2025.

CERTIFICATION

This is to certify that, ABDULGANIYU WALIYAT, OGUNDEJI BOLUWATIFE EMMANUEL, MOHAMMED MOHAMMED BABA, HUSSAIN ABDULAZEEZ OMOTOSHO, SHITTU KHALID, AKINOLA ABDULLAHI OLADIPUPO, UTHMAN BELLO,

Have successfully completed the practical project work in partial fulfillment and requirement for Award of National Diploma in Quantity Surveying department, Institute of environmental studies, Kwara state polytechnic, Ilorin.

QS. KAREEM AZEEZ BOLAKALE	DATE
(Project Supervisor)	
QS.SIDIQLATEEF	DATE
(HEAD OF DEPARTMENT)	
EXTERNALEXAMINER	DATE
QS ZAKARI MAHMUD TSARAGI	
STUDENT	DATE

DEDICATION

This project work is dedicated to Almighty God for seeing me through my stay in Kwara State Polytechnic and it also dedicated to my Parents.

ACKNOWLEDGEMENT

My profound gratitude goes to God forgiving me the privilege to complete this course,

and particular my project successfully despite all the obstacles in my path.

My appreciate goes to my late parent, and everyone who are in support from one way or

the other. Jazakumullahu Khairan!!!

My appreciation goes to my project supervisor QS AZEEZ KAREEM BOLAKALE

despite his tight schedule still found us precious time to go through my taking off sheet

and write up, a big thanks to all our lecturers and non-academic staff may Allah bless and

reward you all abundantly.

A big thanks to my Parent, Mr. And Mrs. Akinola may Allah reward them abundantly.

AKINOLA ABDULLAHI OLADIPUPO

ND/23/QTS/PT/0020

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ABSTRACT

This project focuses on preliminary activities that led to preparation of draft Bill of quantity for proposed four Bedroom Duplex Building located at no 25, Onilete Quarter Iwo Osun State Meanwhile, this is to prepare pre-constructional cost on any proposed project and understanding the process of site investigation and to understand the Construction Company/industry.

CHAPTER ONE

INTRODUCTION

BACKGROUND OF THE STUDY

The construction industry in Nigeria came into prominence after the attainment of independence in 1960 and since then the industry has witnessed a lot of growth especially in the last rebuild the nations particularly the war affected are brought construction of on Since there was so much to do then and the number of construction firms available were few many construction companies were hurriedly setup to construction projects. The construction industry is very important in the economic development of any nation especially in an expanding economic like Nigeria. Aibinu and jasboro (2002) affirmed that even through it contribute less than the manufacturing of often services; the sector has continued to occupy an important position in the structure of the Nigeria economy.

The contribution improved efficiency in the industry by means improving the estimate and budget of a project, therefore efforts years toward improving on estimate and budget.

DESCRIPTION WORK

The site for the proposed residential building has a total gross area of 620 square meters out of which approximately 180 square meter is used for the proposed building the elevation drawing reveal the total height of the building including walls to be approximately a meters high. Meanwhile all windows are made of aluminium pivoted sliding window jammed in aluminium frame and the doors are purposely made to suit the

building. Wiring is to be in full conduct while foundation is to be strip foundation

structurally strength is to be provided to the building (columns, slab limited etc.) with high reinforcement bar of 16, 12 and 10mmn diameter size so as to enhance the stability of the building.

AIM OF THE PROJECT

The aim of the study is to estimate and budget for a proposed four (4) bedroom duplex for Dr. Muhammed Bashir Kolawole which is located at No. 25, Onilete quarters, Iwo, Osun state.

OBJECTIVES OF THE PROJECT

- 1. To understand bill preparation
- 2. To determine the effect of site location.

SCOPE OF THE PROJECT

The scope of the project is to prepare an un-priced bill of quantity for a proposed residential building.

LIMITATION OF THE PROJECT

The difficulties encountered in the project area follow:

- i. Unavailable of detailed working drawing
- ii. Liability to carry out scientific analysis
- Difficulties in acquiring some important plants and material required for the building project.

DEFINITIONS OF TERMS

Numbers of terms and register will be used in this project. These have different meaning to different people but the meaning that would be adopted for this terms and registers will be discussed as follows.

- 1. **BUDGIETING:** This is a targeted financial statement document of the loss of a proposed construction project.
- 2. **ESTIMATING:** This is a process by which rough or general idea on the cost of an items work or project is been workout.
- PRIME COST: Prime cost is the amount included in a bill of quantities for Work to be carried out by nominated sub-contractor.
- 4. **PROVISIONAL SUM:** Provisional sum is the stated in the bill of quantities for work which the extent is not known during the preparation of contract document, the sum will later be adjusted according to the extent and value of the work.
- 5. **CONTINGENCY SUM:** This is the sum allowed to cover unforeseen expenses. it is altered only with the consent of the architect or engineer.
- 6. **PRELIMINARY ITEM**: These are items that meant for smooth execution of a project and it is also a cost significant to a look in question in contain the list of temporaries work required for the smooth execution of the project.
- 7. **TENDER:** This is an offer to execute a given project at a certain amount of money and at a specify period of time.
- 8. **ABSTRACT SHEET:** This is a tabulated sheet that is used in collecting similar

CHAPTER TWO

The proposed plot for the residential building has a total area of 620 square meters which

appeared to be rectangular in plan shape after the placements of the bench mark try the

Surveyor. It comprises many under growth bushes and needed to be cleared away from

site

However an access road passes by to an adjacent building department, hence accessibility

is convenience.

Conclusively this proposed plot/site is located at No.25, Onilete quarters, Iwo, Osun state.

CHARACERISTICS OF THE SITE LOCATION

The proposed site is characterized with the following features and identifies Location:

The site located within the permanent site of located at No. 25, Onilete quarters, Iwo,

Osun state.

Accessibility: The site is located at the back of off will spring school.

NATURE OF LAND

The ground is assumed to be relatively firm ground water level Is well below the

foundation French, so there is no need for special foundation.

5

AVAILABILITY PROMIXIMITY TO RESOURCES

Availability of construction resources simply means the extent of convenience out which the resources can be located in the market or at the selling point. While proximity to resource means the closeness of the materials/resources to the proposed site land, the construction resources include the following:

PLANTS:

All necessary plant needed for this proposed is readily available here in osun Township Such plant include bulldogger, scraper, electric generator, concerto mixer, vibrator compacting machine etc.

MATERIALS:

The whole materials necessary for this project is much available here in Ilorin metropolis regardless the price to other part of the country (Lagos) where the cost of materials is relatively low in comparing with the material available in Osun township.

However, almost the material needed for smooth executive of this proposed project is a little bit remote from the site of work this substantial amount is to be set for the transportation of material which will eventually increase cost in general.

LABOUR:

Human resources that necessitate the smooth execution of this proposed project is which available here in osun Township especially the clerk of worker such as the trade men (all kind) and the labourers. Apparently they all have to be transported to the site on daily basis but between a short distance having commencing on the project, labourers and trade men emanate to the site from all nearly villages for employment.

Purpose therefore availability and proximity of labours is of no problem to the smooth execution of the project.

EXTENT OF PRELIMINARIES REQUIREMENT

In general, preliminaries items are to be given consideration and provision for any proposed project since it is the items which are band to describe the requirement peculiar to job in question and they are cost significant in smooth execution of any project the preliminaries required of this proposed is as listed below:

- Temporary Fencing: the contractor must allow for providing all necessary temporary fences, hoarding, staying, casting e.t.c. necessary to protest and intruder and also to resist the worker from making away with the materials belonging to the project.
- 2. Drawing: all drawing tracking. Photo prints ctc are the sole property of the architect and all drawings must be returned back to the architect on the completion of the work.

- 3. Electricity: allow for providing all temporary lighting and power for the work, paying fees and charges; clearing away and making good ground at completion.
- 4. Telephone: allow for the provision installation, maintenance payment of fees and charges for the use of telephones on site.
- Records: allow for keeping books, cost the books account and others document record as necessary.
- 6. Watching and Lighting: provision of all necessary guides day and night.
- 7. Supervision Offer: allowing for supervising officers such as the architect, engineering and including ant person acting in the intact of the client.
- 8. Protection of Work: allow for protect some special section of work throughout the whole project period so as to reduce damage.
- 9. First aid Box: the contractor must to provide on site and allow for provision of first aid box so as to treat any of his workers or employees happened to be injured on the site.
- 10. Trespass and Damage: the contractor shall prevent any trespass on the adjoining owner's property.
- 11. Prime Sum: provision of allowance must be made for the sum of money meant to pay for works or services done by nominated sub-contractors of public corporation undertaking job.
- 12. Scaffolding: allowance must be made for providing scaffolding to support the v workers at the upper part of the building and provision for removal.

- 13. Provision Sum: the sum must be incorporated in the bill of quantity (BOQ) for certain type of work the extent cannot be determined not until it been executed.
- 14. Site Accommodation: provision of suitable water proof offices for workers and hoarding materials.
- 15. Damaged to Main: the contract or is responsible for any damage to all electricity in water etc crossing or adjacent to the site.
- 16. Progress Photography: the contractor should provide a set of progress photography's each month throughout the duration of the work.
- 17. Covering up Work: the contractor must give at least seven clear days' notice to the architects before covering work in foundation and in some other section of work so as to comply with the specification set

CHAPTER THREE

METHODOLOGY

For any perfect preparation of Bill of Quantities (BOQ), the following processes are involved.

3.0 TAKING-OFF PROCESS

Taking off quantities refers to the operation of reading or scaling off the dimension from drawing an entering the mina recognized and acceptable manner on dimension paper it is the first step in a preparation of bill of quantities. Before taking off operation can commence, it is practice to study the drawing carefully, raising quarries to obtain information not contained in the drawing.

Queries are usually addressed to the Architect or the engineer through a quarry sheet is shown below:

DELIGHTPARTNERSHIP				
REGISTEREDQUANTITYSURVEYOR				
Project				
Query	Reply			

Where the drawing is of complex nature, it is preferable to use coloured pencil to distinguish walls of varying thickness.

It is important to note the time spent in studying the drawing will be compensated when the taking off process is commenced; this is true, since the picture of the drawing is within the take-off imagination.

When obtaining dimension from drawing figured dimension are to be preferred to scaling the dimension where possible as prints are not always true to scale. Plenty of space should be left between each item of measurement so that additional item can be slipped in between original item if it is subsequently found necessary again such space will make the work more readable and neat.

In recording each item in the taking-off sheet, it is convenient that the take-off in the following sequence.

In order to appreciate taking-off a lot better, a fuller explanation of the above are given below:

- Wastecalculation
- Dimension
- Description

WasteCalculation

This can be written either above or below the description. Waste calculation is necessary in respect of all dimensions except in the following cases.

- a. Whenasealedorfigureddimensioncanbetransferreddirectfromthedrawingtothe dimension paper.
- b. Whenadimension has been derived from a previous waste dimension.

C.Whena dimensionhasbeencopied from a previous dimension. Expect for the above, the preliminary calculation should be set down carefully and accurately on the waste no matter how simple or trivial the calculation may seem, so that can be independently checked during squaring. This procedure often saves deals of trouble at a later stage when one is determine how certain dimension were obtained

	LENGTH
	15. 500
	5, 000
	25.00
	5, 000
	15.50
	25. 000
	WIDTH
	10,000
	5. 500
	15, 500

Thewastecalculationaboveisconfinedtotheimaginarywastecolumnontherighthand- side of the description column

Dimension

After rounding-off to the nearest 10mm (Clause A 3.2) the result obtained from waste calculation are transferred to the dimension column in the above example, the figures to be transferred after rounding off are 25.00 and 15.50.

In the figuring down dimension, it is important to confirm to the length, width, dept rule laid down in clause A4.1 of SMM as shown:

	25.00	
	15.50	
ļ		

So also, it is important that the figured dimension should represent the actualwork configuration, as this is an aid to the interpretation of the taking off by the worker up.

Description

Therearemanywaysofinsertingonthedimensionsheet, themostacceptablehowever, is a description which commerce on the same level with its first dimension.

Thelowestfigureinthewasteshouldbeatleastonelineabovethefirstinthedimension is not cramped with the waste calculation.

Theabove example below show how the waste calculations, the dimension and description should be arranged in dimension paper.

	LENGTH
	15, 500
	5, 000
	5, 000
	25,000
	10, 000
	5,500
25.00	15, 500
15.50	

Framingof Description

Inframinganitemdescriptiontobeinsertedinthedimensionsheetthetakeroffshould be guided by the following

- a. Theinformation contained in the drawing
- b. SMMRule
- c. WhatobtaininPractice
- d. Brevityand ambiguityofthe statement
- e. Priceabilityofthestatement

THEARTINTAKINGOFF

The basis procedure in taking of foperation has been highlighted in the previous section, but it has the following issues unanswered.

 $a.\ How to cancel wrong into nation during taking off operation$

- b. Howtodemarcateanitemofmeasurementfromanother.
- C. Whattodo if dimension stringout-runadimension column.
- d. Whattodoiftwo descriptionsapplytoadimensionorstringsofdimension
- e. Howtoavoiddescriptionrepetition, and soon, these point are briefly described.

NILING

Niling is the method of cancelling wrong information during taking-off process. Nilling may be done in the three compartment of taking-off process i.e. on waste calculation on figured dimension (S`) and on figured description.

The answer to any waste calculation required deletion will haveword

NIL" written on it.

	1.805
	3.417
	3.457
	8.670
	1.805
	3.417
	3.459
	8.679

DIMENSION

Individual or string dimension may be nilled following the standard convention for individual dimension, the world "NTL" is written in the squaring column opposite the lowest figure on the offending dimension.

String dimension requiring to be cancelled required arrows terminating in two horizontal lines. The word NiI" written between the two horizontal lines.

The examples show how individual and string dimension are nilled.

In The above example, the first, third and last dimension one still valid. At the squaring stage, these dimensions will be squared out in the space provided. It should be noted that the issue of squaring column for purpose of nilling prevent any accidental squaring of wrong dimension.

DESCRIPTION

Nillingdimensionassociated with a description with a description nillicies the description. When the dimension rate relates to two or more description connected by adding on: and only one of the descriptions is not required. The nilling is done by crossing with oblique line or by a wave line ending linear phs, the method, or beside the lower seraph for the second method.

3.60	50mmcementandsandsereed
3.00	(1:4mix)andprepared andnil
4.50	
3.60	apply2coatemulsionpainton
	Nillasbestorceilingpoint nil.

BRACKETING

The example given above introduced the concept of bracket and ending on. A bracket is used to demarcate one item measurements from another when"

- a. Morethanone dimensionappliedtoadescription
- b. Morethan onedescriptionapplied toadimension

In practice however, it has become the norms to bracket every item of measurement. From the given example, a bracket consist of a straight vertical line over ruling the printed line dividing the description column from the squaring column, which terminate two horizontal seraphs top and bottom of the measurement.

ANDINGON

In thelastexample,thedescriptionsapplied to the figure dimensional thoughone of them was eventually nilled. The three description were connected together by means of ampers and figure, thus and this method of connecting two or more description is known as adding on; it is used when description re related to a common dimension (S).

CHANGEOFCOLUMN

3,40		16.75	200mm h/cas
5.47		3.50	Before
4.50	200mm		Described
3.60	h/c		
	filling		

Also, when a new column is required for adding-on, the previous dimension figureddown afresh against the description remaining.

		3.60	
3.60	50mmcementandsand	3.00	Prepareand apply2coatsof
3.00	creed (l:4mix)and12mm	4.50	Emulsiononas bestisceiling
4.50	Cementandsandrendering	3.60	Soffits
3.60	(1:6nus)on horizontal		
	soffit		

Notice: the method of bracketing in the method, the first example and indicate that the dimension is continued to the next column.

DEDUCTION

26.00	Fabricmeshreinforcementlaid flat
16.00	with no allowance for laps
S.00	
2.00	
3.55	-Ddtditto
0.50	
8.05	

WORKINVOLVED INTAKINGOFF

On receiving the drawing from the Architect it is not advisable to commence on takingoff immediately. The surveyor should start certain preliminaries work which include.

- It is advisable to colour some points of the drawing to clarify construction or the whole if not coloured.
- Thedrawingshouldbecarefullystudiesforcertainperiodof time.
- Visitation to the site is more advantageous for the taker-off, so as to ascertain site
 conditions, it clears up uncertainty point and quite usually create new ones which
 is to be solved.

ORDEROFTAKING-OFF

The order of taking-off a list of work giving, it should be understood, however, that the number of work to be measured will depend on the type of structure. So that some work will be added or omitted order of taking-off includes;

- Worksectionorder
- Elementorder
- Operational
- Tradeorder

FINALPOINTONTAKING-OFF

To produce a good billof quantity, the taker-off should at the commencement and during the process of taking-off consider, the following crucial point;

- Contractheading
- Additionalnote on drawing
- Numbering
- SignPost
- QueryLest
- ReferencetoDrawing

ABSTRACTINGPROCESS

After the squaring process, the next process is abstracting. This is entered in a specially ruled sheet. The sheet is ruled with series of vertical lines that are space about 25mmapart and one usually of A3 size in width. Each abstract sheet is headed with the job

reference, sheet number and work section, and possible the subsection of the work to which the abstracted dimension refer. The abstract sheet may be divided into worksection or element. Following the manner adopted in the standard method of measurement and the format the final bill of quantities will take.

The items are well spaced in the abstract sheet and should beentered in the same order as they appear in the Bill of Quantities.

Description are usually spread are two columns. The dimensions are entered in the left hand column, which any deductions are entered on the right hand column. The total quantity of each items are reduced to its recognized unit of measurement.

It is a good practice to prefix the abstract sheet with C,S.L or No, denoting the items as cubic, super, linear or enumerated. The reduce risk of error arising with regard to unit or quantities.

The order of abstracting is to commence with cubic, item, followed by supper, Incur and finally enumerated items. Also labour items should proceed labour and materials, smaller items proceeding larger ones and cheaper items proceeding the more expensive items. Notehowdeductiononetransferredtobetherighthandcolumnandthefinalreduction of the quantity.

BILLOFQUANTITIES

Bill of Quantities which contains a complete analysis of labour, materials and plant required, contained, outlined and depicted in the Architect's drawing and accurately representing the work to be executed, an obtaining the cost of a project before it is erected.

THEPURPOSEOFABILLOFQUANTITIES

The supply each contractor within formation which will enabled him to tender on the same basis as his competitors.

- Toprovidea detailedlistofeveryservice tobe performed.
- Todescribe in addition to any description in the specification the quantity of the work and the method of carrying it out.
- Tobecomeacontractor documentwhichwill:
- Beusedextensivelythroughoutthebuildingoperationforthecompilation of interim valuation, certificate and the final account
- Serveasaschedule onwhichallvariationinthe workmaybe valued.
- Preventdisputeastowhatisand thatisnotincludedinthecontractprice, and the value for any work or labour which has been omitted.
- It can be used for the furtherance of cost investigation and cost planning information.

Theadvantagesofabillofquantitieshardlyneeded tobeemphasizedandwithoutitnone of the essential services (listed 1-5 above) in relation to building contract can be carried out effectively.

COMPOSITIONANDPREPARATIONOFBILLOF QUANTITIES

Fortheproductionofa goodbillofquantities the following essential part must be noted,

- 1. Asubstantialknowledgeofbuildingconstructionandserviceisabsolutelynecessaryfor without this, the interpretation of the drawing would be impossible.
- 2. Accuracyinmeasuringwhichalsoinclude neatness insetting out.
- 3. Athoroughknowledgeofwritingdescriptioninconciseandlucidterms, thereby translating the drawing in to words.

STAGESOFBILLOFQUANTITIES

There are four districts tages in the preparation of a bill of quantities

- Takingoff
- Squaring
- Abstractingworkingup
- Bill

Conclusively, to produce a standard and acceptable bill of quantities all the above discussion in the chapter must be carefully dealt with. However, in the course of this study the work section order was adopted while the bill was prepared in an element format. The reason is that it is the best order for pricing and making enquiries. Also it is suitable in the cost analysis purpose and post contract management lastly, is the best understanding off the taker-off.

PROPOSED

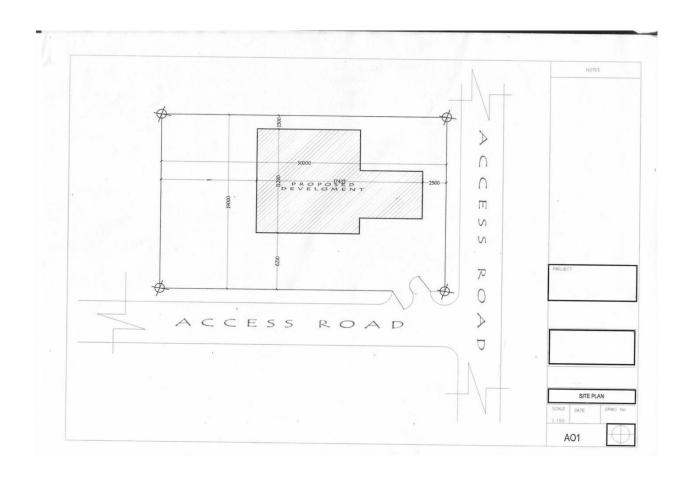
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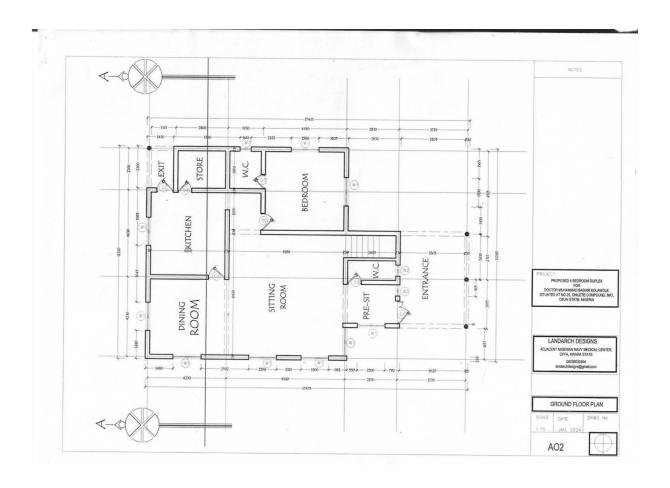
MUHAMMAD BASHIR KOLAWOLE

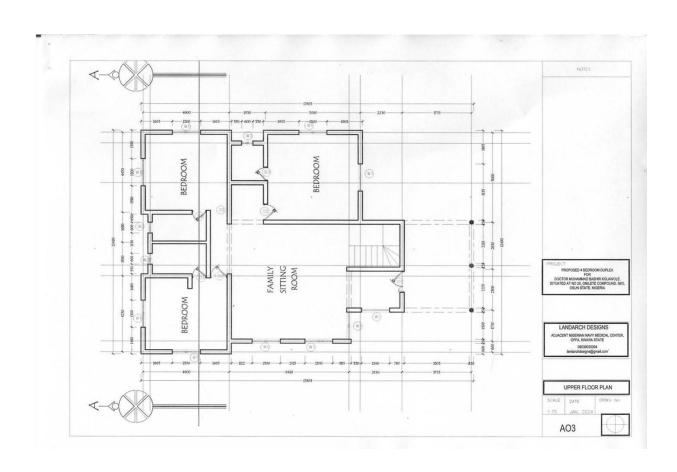
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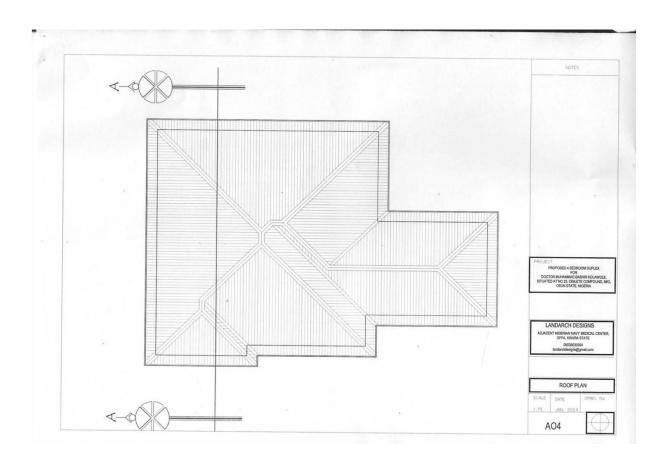
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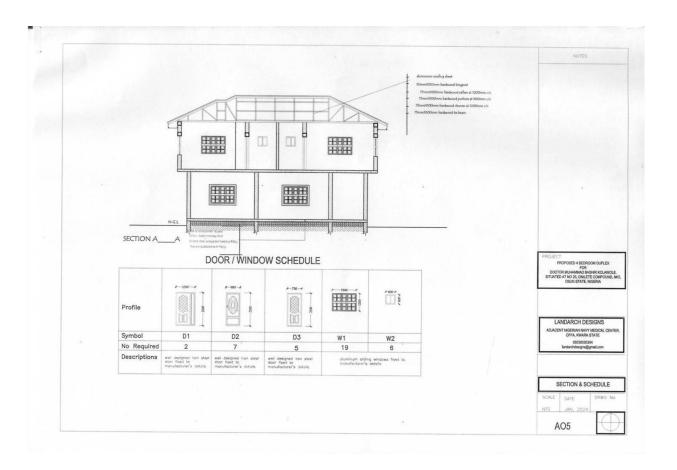
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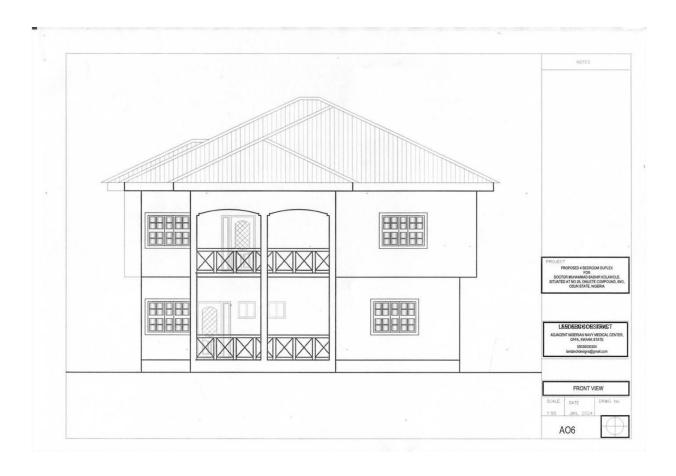




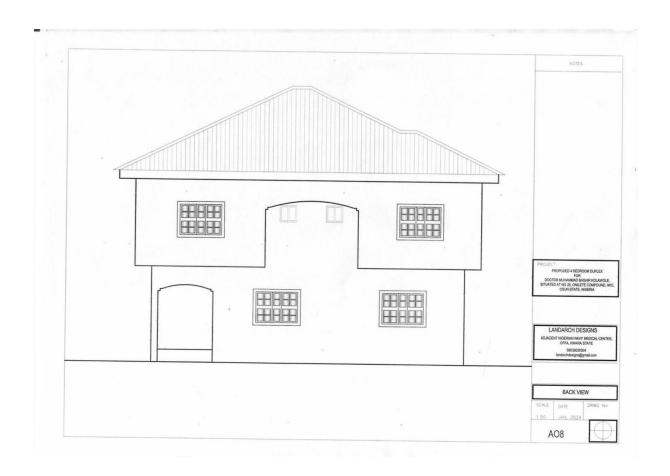










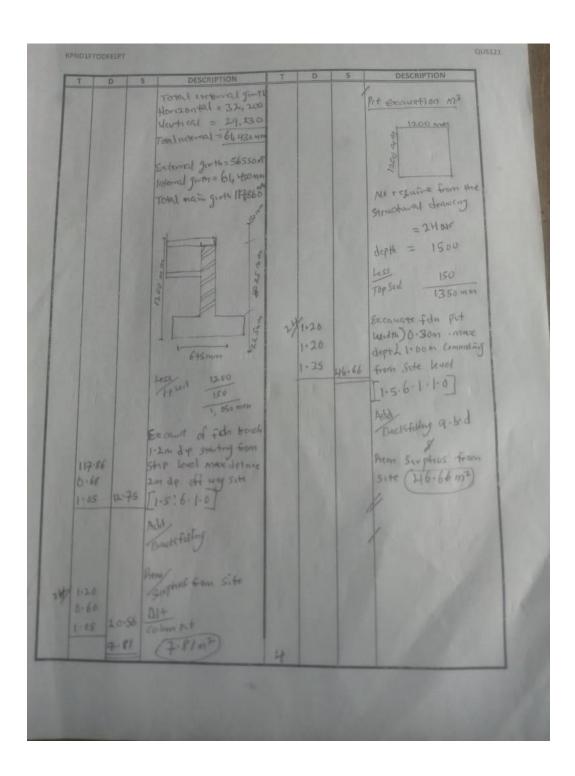




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D S DESCRIPTION B Formula K In
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	DESCRIPTION	Ÿ	D	S	DESCRIPTION
T D S	TOP SOIL Excaustion		12-97		away from Site
	m2-		11-74		[1.5.9.31.0]
			0.15	31-50	N (31.50m3)
				1	1 (31.30.1)
	2250 215mm	1			X
	1	1			Trench Excavation
					m ³
	675mm				main geth L= 17 435
1 2/12	For widow = 675			1	id= 11,290
	Hess				
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A 133 3	17,435 11,290				
		1			Cover
	Spread USO USO			i	4/2/1/25 900
	7415 HSO 460 2425 17.885 11.740				56,550mm
	a sale Usa top Soil	20			a a a grath
17.19	Secarate Veg top Soil				Internal girth
11.74 26.2	7 dispose of site				6.180
	[1.5.5.20]			1	4,250
	1000				2570
	1				2/1700
	1 (210.27 m²)	1			2/4000
	210.27 m²	1			3/2600 =32.200
	Disposal m3	1			Vertical
	Disposal of excava	14	12		6430 4050
	material isomm	1			4,170
	dp- P soil aug.di		10	100	3/ 1970
	n. e 200 mm non				4,400
	horizon Edous	1			4000
	material mase				1155 = 29230mg
			3		



TD	S DESCRIPTION Blockwork in	T 0 5	Conc - in Foundation
	foundation man		Blinding m3 phonin-marty conc
	=117,860 mm		1:4:8-12mm agg
	14525 5400 24/525 112,400 Depth 1,050	0.68	mixed and poured on a against the pourt in foundation
112-40		2/1.20	Every we leave a
1-275 140	165/ - footing 2/225 815 mm 450	0.69	044
	1275 mm 450×225×225 hollow	3.03	Ditto (al pit
	Surderete brook laid on stecher bond with gmorter [14] with	1/1.20	(1.73m³)
	Plain Coc		Column Base
	[1:4:8 - 38mm agg budies and jointed	241-20	Goac. In. COL Base
	agricust each other.	1.20	COC 11:2: 4-19 mm
		1001	against blinded
	(143·31 m²)		1 [1:11:2:2·1·0]
	Ad Back Felling		(10-37 m3)
	Premy Surphus from site		1
	1		

TD	5 DESCRIPTION	7	D	S	DESCRIPTION
	Voitto in Fon				Ald his evel
117.86	Footing	_			2/12/12 288 1,438mm
0.68	plain instructor				1,438mm
0.23	18.43 [1:3:6-38 mm ")	9			144 1,120 144
	more in Fdn				Mumber required
	Footing 3	1			
	(18. HBMB)				200 % 51200
	1	100			6+1 = 7 mrs
	9,				THE THE
	Ditto in collin	1			W=1200
24/ 0.23	H= 1350				lisy
0.23	17				Course 80
1000	17 her ling 50				1/40 Ti20
	Cong. 545e 300	1		1	The same of the sa
	1000			100	Add and 288
	A (1.27m3)				his 288
	9 (1.2+m)				2/12/12 1,438mm
					144-144
	,				1120
	Pheinforcement King			12	Number require
	Plaint in Cal base				200 / 1200
	1200 mm				
	122777 1				6+1 =7Mrs
	12 13	1 24	1 1-44	2416	12 12 mm A high world
	Second Second	1 24/	1.116	241-9	12 12mm + high yield
	141111	17		1111	695E-
	1-1240			483	
	F= 1700				[1-11-34-1-2-1]
	Her 1,120				[483-84 Kg
	1,120				100

TTO	5 DESCRIPTION	TT	s s	DESCRIPTION
	Comfeet to tons			Links 125 L = 125 225
1 100	36 + 0.22		-	地上=125
	36 7			
1 100	= 12 +12 40.22			Cover 2
	= 0.88 + 483.84			
	= 425,7792	1		2/ 00
	1000			240 N 145
	=(0.425 tons)			580
	1 70.425 tonsy			
	I I I I I I I I I I I I I I I I I I I	1		his and
	Ditto in Col			2/12+8 192 772+8 772 mm
1	H= 13.50			2/12/0 772 mm
The state of the s				
1	less = 50			Mumber required
	bastot			L=1,196 200 %
	2/12 = 24			200/1196+1
	16-10			
	2/40 = 80 = 1196			= 6.0+1 =6+1
				= 7 Mes
	Add Sou-149	6		
	300=1496			8mm & high year
	300-1470	74	22 100 0	8mm & high year years ban as
l att	Add end	1 70	77 1213	Thors in (a)
1 178 11	70.88 /hh 2.88	1 1/4		11
	$\frac{300 = 1496}{1784}$ $\frac{1496}{1784} = \frac{288}{1784}$	1 1.		1 (29.36 h)
	(170.88 hg)	1 /4 /	-19 2911	
	170.00 191			
	H. Display			
		-		
		A		

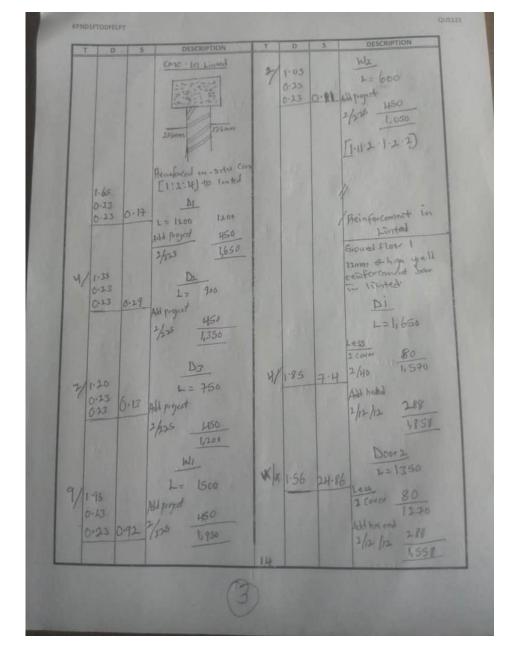
		- Indian	T	D	5	DESCRIPTION
TD	S	DESCRIPTION				L= 17, 435
	X c.	mwals to col				
	10	Base M				rd = 11,290
6-13-13						2/28725
10000	Saur	formworld to		57.45	54.43	57, 450mm
17 100		of col base		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
247 H-80	115-20 11-5	:12 -2-1-1				1 (54.45 m²)
	1000				1	1 (04
	115	15.20m				
	40					formwork to earth
		01				work support mit
ALCOHOL: STORY	00	Ho To Col				
		225				Southwork support
		1005		FH.01		to tace carranan
	22.5	125		14.86		mise dpt 2 1.00m
		225		0.83	14.8	faces = 2.00m
0.90						
	122	125				[1.11-13-2-0-0]
1-00	21.60 W = 3	125				1 (97.82 m²)
	2/	450				y (d+.o.
		900mm				
	100					Ditto to surface
	121.	60m2)				treatment m2
		10				Propose to Sarface
		Ho in edges				meaturest
	Of 1	Oversite M	11/2	17-8	6	1 1 1 1 1 1
	Carela	form would to		0-68	86.	17 Cives drabnes 207
		de Smerth				bottom Side Of EDECA
		of Survey of	1 10	117-8	6	uation bottom
		not exceeding	1	0.8	3 195	-65 side
			7	100	+	[1-11:17-10-0]
	2501	om high		1		Thursday.
						(195.65 m2)
						2000
			8			1

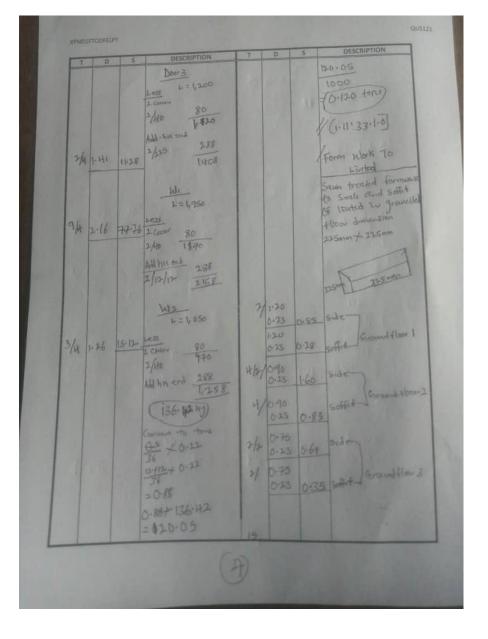
T D S	DESCRIPTION	T	D	5	DESCRIPTION
	Hardcore Filling		2.60		
	Imported travitors		1-12-		
	Cilling 50mm thick		0.18	0.82	Stein man
	Part Not exceeding			31:01	(32.01m2)
C- 500 100	150 from horizontal		-	The state of	
	maximum or average		16,011		[1.5.12.2.1]
	Lepth Of layer finish		1110		-
6.18	thretoness stoles.		100	1	X
6.43			1777		/
0.29 11.13	STHING FOOM		1 shirt		Namproofing Membra
4.25			1000	Here's	Damproofing Membra
The same of	0		TO SERVICE	1000	
0.28 4.96	Bedroom		1.00 1.315	1200	Two layers of dan
2.57			17-44		of polythene Sheet
1-97	Store		11.27	19601	on felling
0.28 1.42	THE RESERVE OF THE PARTY OF THE			1 2 1	118 1 2
1.70	10/6/200		1000		1 (196.81 m²)
1-97	-11		L. F.	100	
	Toelet		100		BAC Mesh
H-00	The last of the la		1		m ²
0.28 4.93	Actehon		100		
-			1180	1 2	L=17435
H-00				10	Less
0.78 H-H8	Dining room				way
2.60					2/25 450 10,840
1.10					10,840
0.28 0.82	Torlet			100	BRC fabric mesh
0					ranf 138449 1
2.60	Section 1995			1	1047 1007771
2-16	0.4 0+				A252 weighth
0.18 1.57	pre-Sit		100		3.95 kg /m2 1218
1.70	THE REAL PROPERTY.		16-9		Conc & Lor 5/90
1-97			10-8	1 184-1	18H·17m2
0.28 0.94 1	44 20 4		-		1 (22 (411)

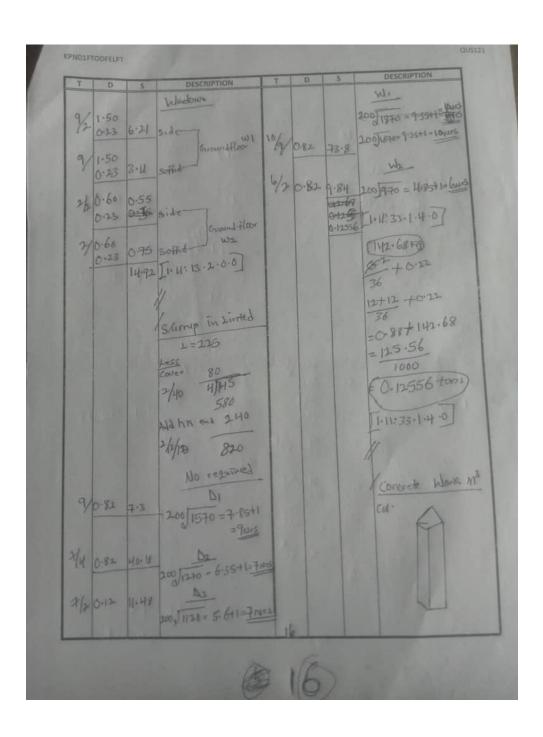
TD	5		DESCRIPTION	ON	T	D	S		DESCRIPTION	ON:	F
11·27	1000	Plain 1:3.6 poured [1:11-12] Finis L = 14 Finis Sakon block ideam norted on fore	the Conormal on have 1-1.3-1 53.41 hing 1	mm dery to				Pro- Allow	thing on reconstruction of the form	protection of the second	die

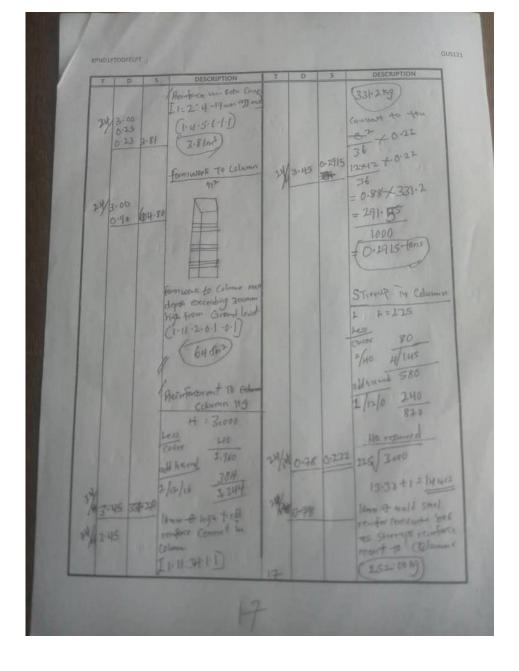
TDI	S DESCRIPTION	T	D	5	DESCRIPTION
	Aring Off List for Super Structure Liberts Grand Phoor Block whole Manson Metally and Internating Ly Concrete in Column Concrete in Column Concrete in Lunted Concrete in Suspence Stato Concrete in Roof bean Concrete in Suspence Stato Concrete in Roof bean Concrete in Suspence Stato Concrete in Suspence Stato Concrete in Suspence Their forcement in Linted Presinforcement in Linted Presinforcement in Linted Presinforcement in Sean Prended Stato Reinforcement in Stair case Formulation in Toof beam - Acurtocement in Stair case Formulation in Toof beam - Acurtocement in Stair case Formulation in Toof beam - Acurtocement in Stair case Formulation in Toof beam - Acurtocement in Stair case Formulation in Toom work to column Form work to Suspen Linted Formulation to roof Beam - Control of the Column Formulation to roof Beam - Control of the Column Formulation to roof Beam - Control of the Column - Control of th				Formularly to Stair case Reof Covering of Structures - Acof Covering of Redge Capping on wall plats on which part of the beam of the following the following the following floor and first floor floor floor finishes the floor celling finishes - Celling riggings.

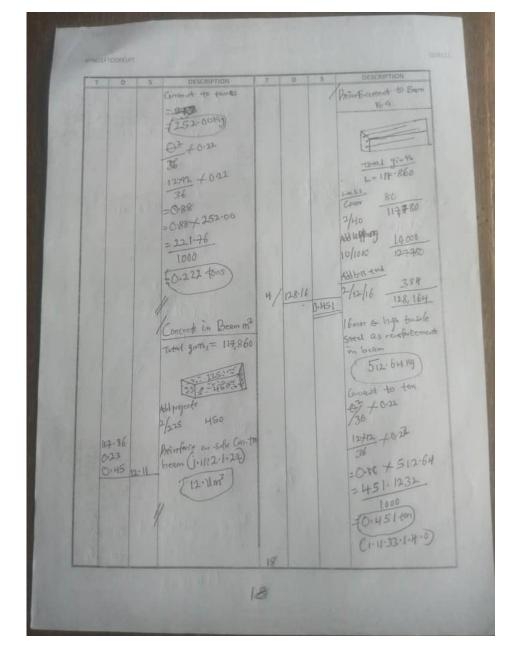
TD	S	DESCRIPTION	T	D	S	DESCRIPTION
		Morsey when wit				Deduct area Covered
		Ground Floor		117:86		Total girth= 117, 860
		External From 56,55	9	0.45	53-04	He HSOMM
		Internal girth = 61,450				Dato to lanted
150		Less				And the second s
		Col-hase				_0_
		24/25 5,400				H=1200
		1/2200 112-Hberry	4	1-65		Ald project
112-46					0.38	2/225 HS0 T1650
3-00 3	37-39	HAVE A TILLY TOWN		0.40	0.50	D2
		I II I DO I A LE PRIVATE				
		bed to seem Jan 1980	4/	1.35		1=900
		martan (1.0) laid w	7	0.23	124	All project HSO
		Sweeper land.				2/225 1,350
		Deduct Openings				1000
1.20						03
2.10 2	.52	Di				1=750
1/090			7	1.20		Add project 450
2.10 7	.56	De C Bedroom ketchen	1	0.23	0.55	1,200
1		Store, exist.		0		WI
10.75						L=1500
2-10 7	15	DZ wrted	-9/	1-95		Allan de
13	.24		1	0.13	H-OH	12/25 HS0
		Window				1950
1:50		A SECOND OFFICE				tal2_
1.20 16	-24 V	UI CPER-SIT, Sitting	7	1.05		1.0
10-60		+ som Diring, Kitchen		0-23	0.48	Add project
10.60 00	12	Na Cpre-sit & toilet				2 A25 H50
		M2 Che and begones				2/125 H50
16-	14					89-89
			10			337-38 (247-4917
			13			247449

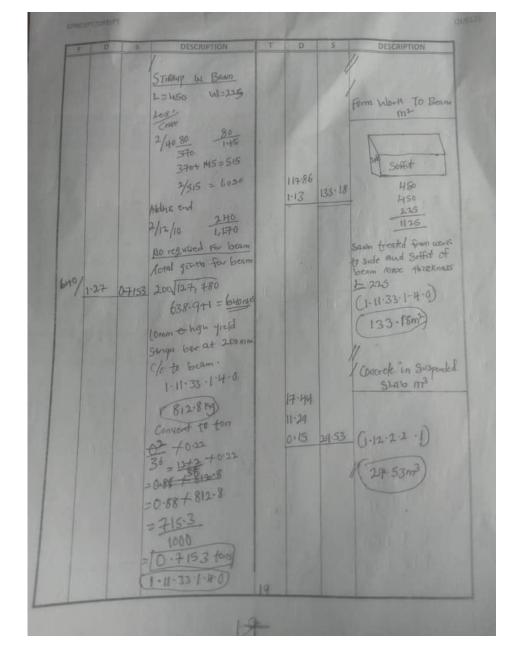












	PTION	T	D:	5 .	DESCRIPTION
Benfriement peptided Sk	t in sus			1	Formulair To sus
1=17435	11296	W. A.G.	- Walter		Pended SLAb
Cox Cox	Hada	2/17	нч		sown becaped formworks to the sixes and soffet
CONC COSON	90	2/11		22:58	of conc its suspended
2/40 80	117-10			57.46	side
All his end	4	17	-44		
2/12/16 381	37 11,394	II.	29	196-81	Sottet
No requir	-ed			154-27	(1·11:13·2-0·01)
100/17355	14110				7254.27m2)
4.36 1006.88 -86.77	1 = 88115				
					Q .
090371 NOSSELL	orest	0.3			/STain case
200 14,210	5+1 = 58AIC				Concrete work m3
					M
(1026.9					17
court to	ton				7
A2 +0.22		140			
736					Star Case land
1242 +0.2	124			10.15	St. Ca. Maria
=0.88 + 100	26-94				-
	100				600m 1-12
=903.71	400				1
1000					300 mm
60.90371to	VIZ)				Step rect pr
					19 3
	-				3

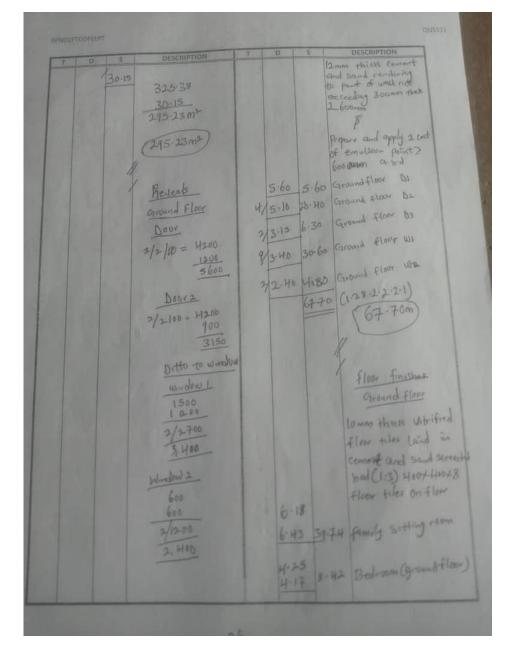
T D 5 DESCRIPTION	T	D	5	DESCRIPTION
2600	2/	y 1-12	H0:32	formwork to states.
Warry pyringers there. 16t = (2,600) + (1,000) 102= (6.76) + (1.000)			11-16	Of rise with 1500mm with to write some firmwak to sides of walth 175m
162 7-76 F= J7-76 1622-79		2.79	5.59	Difts to side of landing with 150 mm
0.18 1.12 waist	7	1.12	6-23	soffet som framant to said of wast
78/11/2 0-80 091 Accer		1-12	6441	siffet of landing
0.66 0.30 0.20 handing 2.23 Plain is in sofu case reinforce in Stopping angle 07 (1:2.4)				Reinforcement in Stair Case 12mm o high year
20 mm agg mix powed to Stone Case 1-U:H-1-7-2)				Straigh steel baring stairease L= 2790mm Less Conson
2-723 m²)	21			3/10 21910 Aldread 288 2/12/12 2998

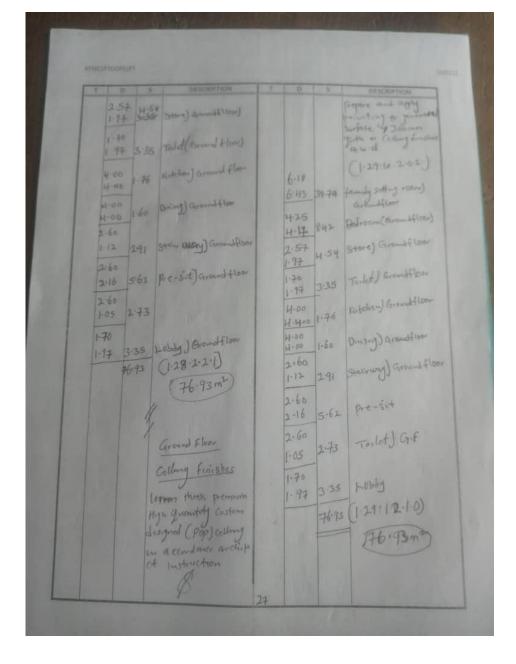
TT D S DESCRIPT	non T	0 5	DESCRIPTION
No Reg	ared L		7
762mm 4.80 200 / 2998			Freish To Staircase
	1 = LEAGES		and sound (1-4) pain
110-111			rendering functions
lal.	100		forward Smooth TU
1170	4100		statense exceeding
Les	1300		600 mas with
Last -	040		preprie and arry 2
2/41	OHE		Front all without These
Addresond			paret to general surpe
1 + + +	288		Perme and there for so conts) 300mm grath on
-11-11-	1378		pendered wall to the
	2/2-9	HA .	slipping would
No ce	11	12 6.25	
2/16/1.33 42.56 200 1328		0	
716/1-33 42.56 200 (328	- 8WYS 7/1/0-	15 0.14	
6.64+1 =	0-	15 0.19	
6 2 79 16 74 519-24 12 05 159.58)	2/2.	19	
714 11 115112		18 1.00	
141-70 1870 Connert to		10	
6/11/2 672 02 40.22		60	
1 360		12 1-12	101
127127			Ground floor
6/2.51 15.06 36	9.58		luona theols Vetrifi
5/2-51 15.06 36 5/2-51 12.55 = 0.88 + 15	2010 3		Ceramie teles land i
1 1			- And Soul
6/0.90 5.40			Screeded bed Ch3
1 F50 16-50	3000		HEOTHEOT SMA tole
1	1200 - 10		On State Case
158:5%			9
1	B. 11. 11. 11. 11. 11. 11.		Herrhoot 8mm t
N.	1 1 1 1 1		Vifrified coranne

	DESCRIPTION	T	D	5	DESCRIPTION
0-30	but my obt on screed by sections separately occertage book with the candings. 1.02 Landing 1.42 Troud 0.17 Asser (1.5:12-1-1) 11:12 m²			S	(1-25-4-1) Window J Door Schredule Finishe
	Fabraced & Installal Frame archer hollow Pipe harderly welder to Frame high 200 mm diameter melal pipe baluster att 120 mm ala and 250 mm high at 32 mm diameter pipe baluster parmy surface of meter with autorest parties aret apply funders Coul and gloss parm	7		9 2	1500x1200 W. 600 x 600 x 600 W. (1.23: 10.1.1)

Crowd floor 1-20 2-52 Deduct Opening 1-20 2-52 Di 1-20	7 D	5 1	DESCRIPTION	TT	D	5	DESCRIPTION
1			I floor	1			Deduct Opening
1 1 1 1 1 1 1 1 1 1						-	
1 1 1 1 1 1 1 1 1 1		P. John	al frame Alum			2.52	Control of
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		nuy 8	leding door	14/		- 24	02
1 1 1 1200 72100 D1 7 2070 3-15 1 2 750 × 2100 D3 9 1-50 1 2 750 × 2100 D3 9 1-50 1 2 1-24:16-1-17 1 2 1-24:16-1-17 1 2 1-24:16-1-17 1 2 1-24:16-1-17 1 2 1-24:16-1-17 1 2 1-20 × 2100 1 20 1-20 16-20 1 1		and &	reel guerance		2-10	7.56	
1 1 4 900 × 100 02 750 × 100 03 9 1.50 120 130.15 120 120 120 120 120 120 120 120 120 120		year to	Spendionion	21	0-15		Ds
1 2 400 \$2100 03 2 1.50 16.20 172.35 w1 1 250 \$2.10 0.60 0.72 1.42.2m w12 1.42		12.00	12100 DI	1	2470	3-15	
Finishes Wall Finishes Carvaid Flow Sockers guret: 12435 1287+5 57, 1500 1725 1200 1725 1200 1725 1720 17	4/1	4 900	42100 Dz	1000			
Finishes Wall Finishes Carvaid Flow Sockers guret: 12435 1287+5 57, 1500 1725 1200 1725 1200 1725 1720 17	+	2 750	×2100 03	9/	1.50	14.20	172.35
Finishes Wall Finishes Wall Finishes Ground Flow Septemble June 1: 12435 Septemble June 1: 12430 June 1: 1250 June 1:	100	(1.7.	4:16-1-1		1.70		
Finishes Wall Fenishes Circuid Flor Septembly June 12435 Septembly June 12435 Septembly June 12435 Structural June 12430 125.22 25.22 3.00 75.65 26.30 16.34 16.34 16.34 16.34 16.34 16.34 16.34 16.34		7	(Janes)	24	1-60		142.2m2 (A)2
September Sept		1		1 7	0.60	0.72	
Wall fenishes Crowd floor September Crowd floor September Septembe	A PORT	1 fen	shes			30-10	(142.2m²)
Septembly general property of the general septemble of the septemble of th		wal	1 finishes				
Septembly general property of the general septemble of the septemble of th		Gire	reind flow				Towns Guth
57.445 57.445 12 mar Huels coment 3.00 75.65 142.35 25.22 3.00 75.65 12,610 15,220 16.24 16.24 16.24 16.24 16.24 16.24 16.24 16.24		a soul	W. 46 L= 12 435	100			TITIES TO MAN
54.45 3.00 14235 and sand marke (1.6) 3.00 75.65 Propose and apply gives Cost and 2 cost of texture of textu		Sepre					Heght = 20
54.45 3.00 14235 and sand marke (1.6) 3.00 75.65 Propose and apply gives Cost and 2 cost of texture of textu			2/28725				family stthing room
57.445 3.00 14235 and said marke (1.6) 3.00 75.65 Propose and apply gives Cost and 2 cost of feeding games and 16.840 16.840			SA HELMA	1			L= 6180
3.00 19235 and sand marke (1.6) 3.00 75-66 2/22-678 12,610 15,220 Bedroom 1 = 42.50 One to and 2 cost of testing from testing from testing with and 2 cost of testing from testing with and 16.84 (1.29: 1-7.1.)					25.72		W= 6430_
15:220 15:220 15:220 15:220 15:220 15:220 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24 16:24	54.45					75-66	2/82-618
16-24 Propose and apply from Coats and 2 cost of feeting prints on rendered wall C1-29: 1-7-1-) Biodroom 1 = H250 16-24 3-00 50-52 Biodroom 1 = H250 16-24 T6-24 T	2.00 1147	Jaco sul	on setemal"	100			
Propose and apply gives Ocat and 2 cont of feeting function 16-84 7-00 16-840 16-840 16-840							12,770
prepare and apply from 16-84 Coats and 2 cost of 16-84 feeting grants on 16-84 Condend wall Condend wall Condend wall		(3.28:	7-2-0)				Rudroom
Freque and apply from Coat and 2 cost of feeting print on rendered wall (1-29: 1-7-1-) (1-84)			g.				
Coat and 2 cost or 16-24 50-52 3/8, 4/20 16,840 (1-29: 1-7-1-)		Deen 2	I apply some				
(1-29: 1-7-1-) 3.00 50.52 (16.840		la to	2 cost of		41.94		
(1-29: 1-7-1-) 3.00 16:840		Links o	into				2 2/8,424
C1-29:1-7-1-)		New orla	WMV.			- 32.0	
		(1.29:	1.7-1-)				
24		0					
	Secretary Marie			24			

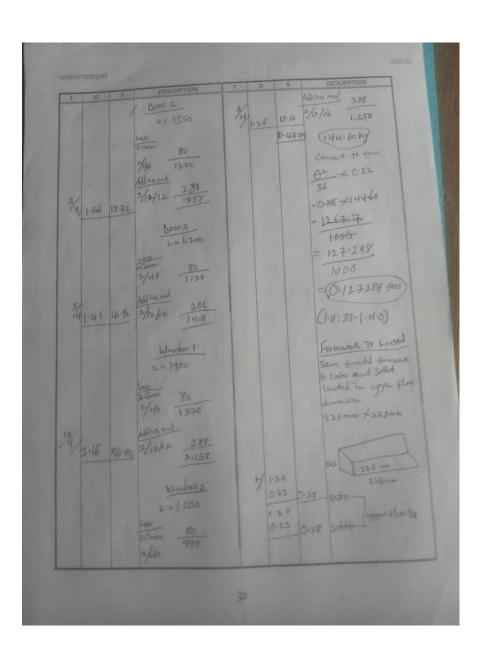
6/3/756	T D S DESCRIPTION	7 D S DESCRIPTION	
16.00 4-50 M= 4000 16.00 4-50 M= 4000 16.00 H= 50 M= 40	908 H= 1,970 H= 1,970	q.51	
16.00 3.00 50.46 L= 4000 2/8400 16.800 16.800 1.34 3.00 22.02 1.34 3.00 22.02 1.34 3.00 22.02 1.36 2.10 2.52 1.36 3.00 22.27 1.31 1.30 2.10 2.52 2.10 2.56 3.00 22.27 1.31 3.00 22.27 1.31 3.00 22.32 1.32 3.00 22.32 1.35 1.30 1.30 2.10 2.52 3.37	7-34 1= 1700 1= 1970 3-00 22-02 973,670	1-30 L= 2000 11= 1050 243650	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16.00 L= H000 3.00 50.40 W= H100 2/8400	7-34 L=1700 W=1970 7-3670 7-34	-
7-43 Stairway 2:10 7:56 1-2600 2:075 3-00 22:27 W1=1:115 2:10 3:15 W1	16.00 4-80 Kl= 4000 2.00 4-80 Kl= 4000	326-39	I.
3-00 22:27 W1= 1:115 2:10 3:15 W1	Stairway	210 7.56	
2 430 9/1:50 16:24	3-00 22-29 W-1.115	2.10 3.15	wı
7,1130	7,1130	1-20	Wz

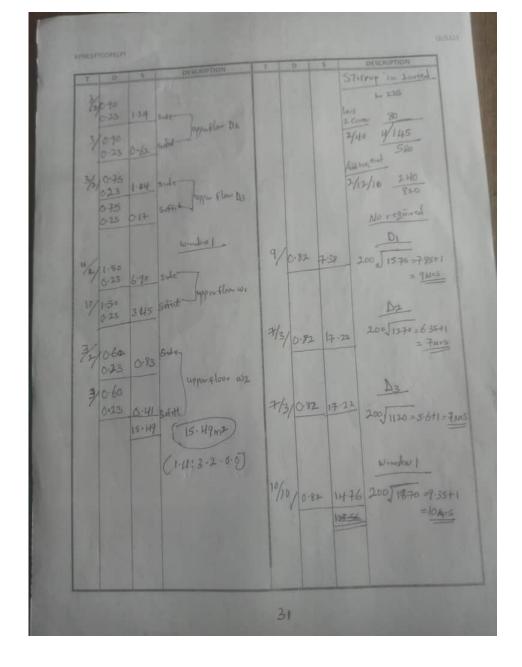


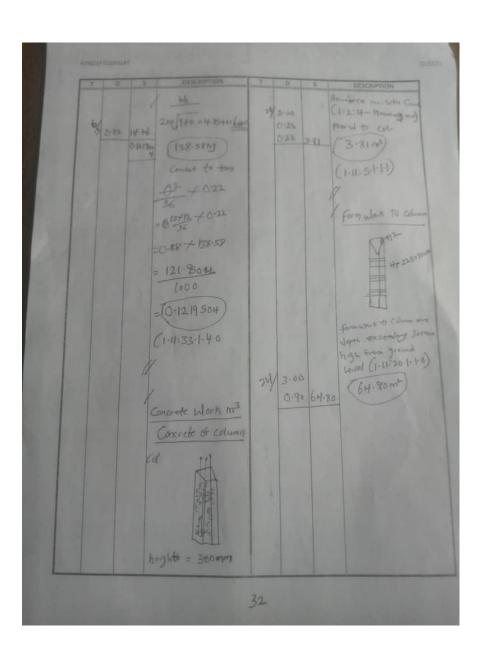


TD				5	DESCRIPTION
	4	1104			Manday
	Protection	611	50	10.00	W
	Allow for pretection of			18.00	
	and the British Sept -	31.9	-60		
	trees unchading the	10		1-08	WZ
	parties and arrive			19-08	Deduct area council by
	1				beaut the control
	MAUSORY	126	65		Noval goth = 129,650
	Direct Worls Mit	0.	13	HH-25	H = 225
	Caper Flavor				11
	10000				Datto to liveled
	Sochael groth 60590	1,5			L= /240
	Internal gath = 74,460	1-6		0.20	Add project
		00	9	0.38	2/295 450
	[01.51]2e				71650 Di
	-1105	3/1:	35		1 1000
	24/225 5,400	0.	3	0-93	Door 2
129.65		/ T			1 = 900
3.00 388.7	5 450 + 225 + 450mm	3/F			Add project
-	I a conscrete which	Qf	2/3		1/225 H50
	bodded and jointed with course and				7250 Dz
	with courset and				wandow 1 w
	sand mutor (1:6) land in street bond.	1.0			
		14			L = 1500
1.20	Deduce opening	0-7	-3	4.49	Add project
210 2:52	01				2/125 H50
		Ta.		1.0	1950
1090 567	D2-	3/1.0	5	0.72	Kimokwa
210 307		0.3	13	-	1 - 1 - 600
6.75 4.73				8-18	Ald project
10.10				-	2/25 450
2.10 2.65		29			1.050
	28				

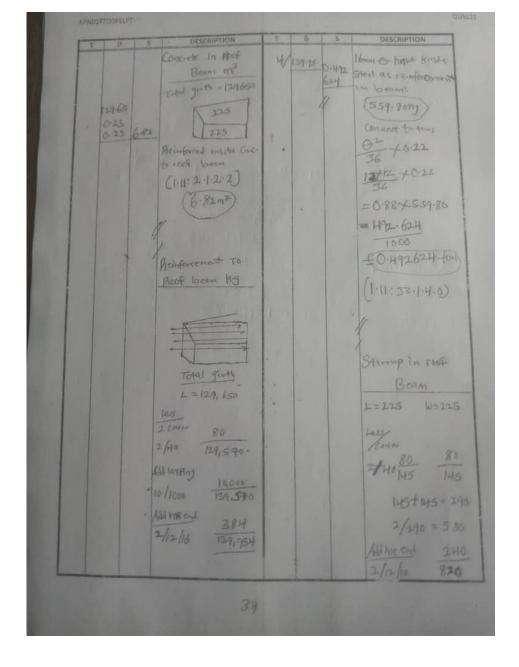
T D	S DESCRIPTION	TD	S DESCRIPTION	1
	Door 3	27	Door 3	1
	L= 750	3/1.20	L=750	П
3/1-20	Add project	2019/03/201	All project	1
6.23	2/2+5 1200 D3		19 2/25 450	1
				1
	700 or det	043	-03 Wandows !	4
	388-95 8H-20			П
	304.75		AH project 450	п
	301 7 Sm2		1950	п
	304.75112			П
	N	1.05	Wz	-1
	1 - 1-15	023	1-2 600	
	Cone in Livited	0.23	17 Adopted 450	
		1	·77 2/25 H50	
			11	
	235 mm			
		1300	Reinforcement T	
	Resiferted in-site Conc.		Linted H-G	
	C1:2:4) to tarted		Upper floor	
	Di_		12 mm - high yield	
	1=1200	100	reinforcement bar	in
	Ald project		winted	
1-65	2/225 H50		Di	
0.23	1100		H= 1656	
0.23 0.17			1435	
34.25	Door 2		2/10 80 1,570	
3/1.35	Add project		2/40 1,570	
0.23	2/225 1450		All mand 288	
	1250		2/2/12 1,858	+
0.21		14	1858	4





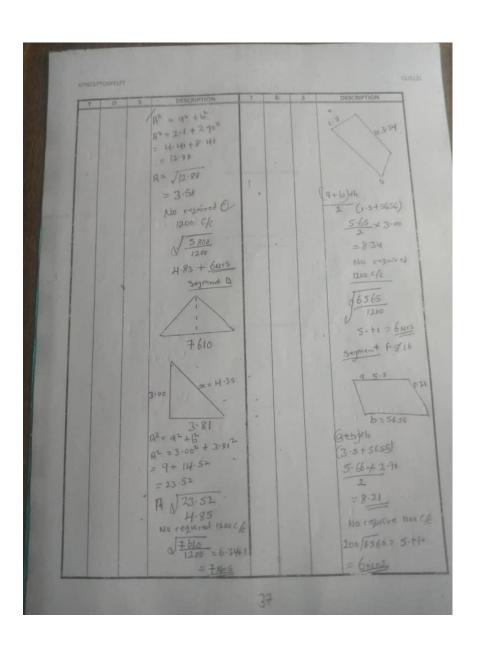


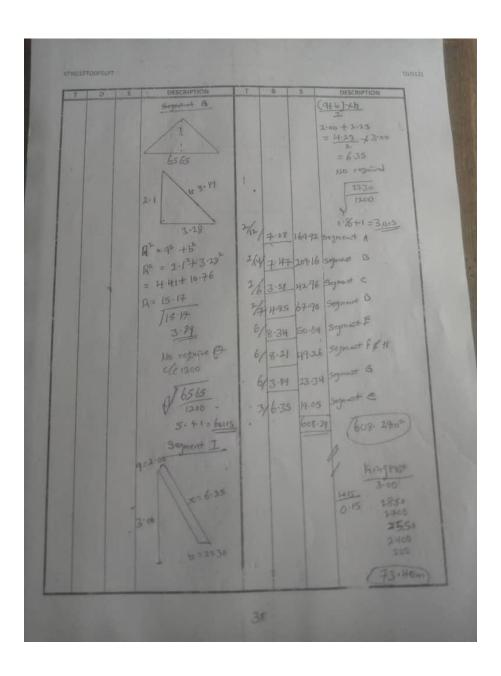
1 0 5	- DESCRIPTION	T	6	5	DESCRIPTION
	Panfarement Ter			- 1	Strong in column
	Column Kg				L = 176
	H= 300				Couley
	CON 2960				760
1 1 1		1			145 145 580
	All he end	100			numani
	2/12/16 3,344				2/12/10 220 All bend 40
	3,344				M. Mary 820
2 34 300 6	+ 16mm & high yeld				2/0/0 HO
0.28616	reinforcement bar in				860
32	Column				
1	(320.6H Fig)				No required
		14/			100.5/2.960
	At / N.12	24/14	0.86		La Hars
			0.2424		15.15+1=4 thans
	36 127 70-12 36 20.6H		576		(275-52-18)
	=0.887 320.6H				
		2			reinforcement bu
	= 282.1632 -	188			as grounds benefor
	1006	10			ment Column
					Convert to tons
	=(0.1861632 ton)	1		1	A2 40.22
		1		١	36
1 1	4.				10-112 10-22
1 3					12×12 × 0·22
					=0.88+275.5
					=242.4576
		100			1000
			-		= (0.2414976)



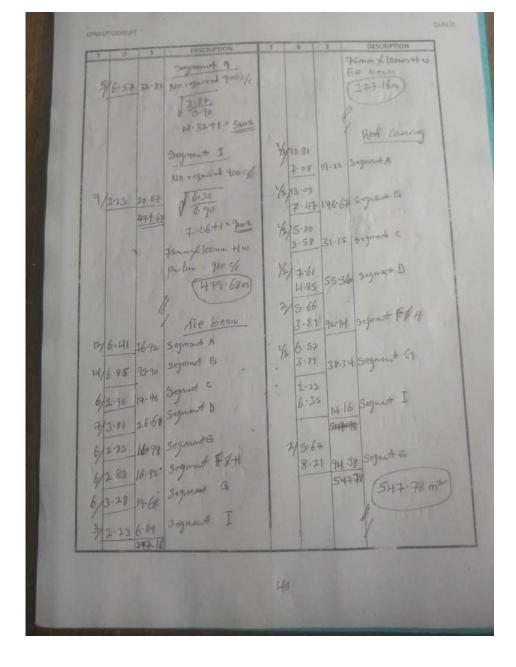
IT DIS	DESCRIPTION	T	2	5	DESCRIPTION
	No required for red			11	
				No	ormulark Hoof Bran
	lotal girth to roat			1	m²
	100/139, 570		1 - 1		
	697.85+1=61 ns	1			
	697.85				Soffet
99/082 050	H long & high yeld				225
3984	MINENS PER AL				195
	ele to roof born	1	1.296		
	(1-1:33-1-H-9)	1	0.66	8-82	Soon freated formwood
1			1	-	to Side and Soffet of roof beam Mess thies
	(573·18 h.)				ness 2 225mm
	Connect to two				(8.82m2)
	02 +0.22				(1.11.13.2.0.0)
	36	1			(1.11·13·2 -)
	12+12-10.22	1			1
	36			1 4	1
	0-884573-18	1	-		
	=504.3984				
	1000		100		
	= (0.50H398H)	п			
	10.30421011		1		
	No.	п			
	1				
		1			
		4.	100		

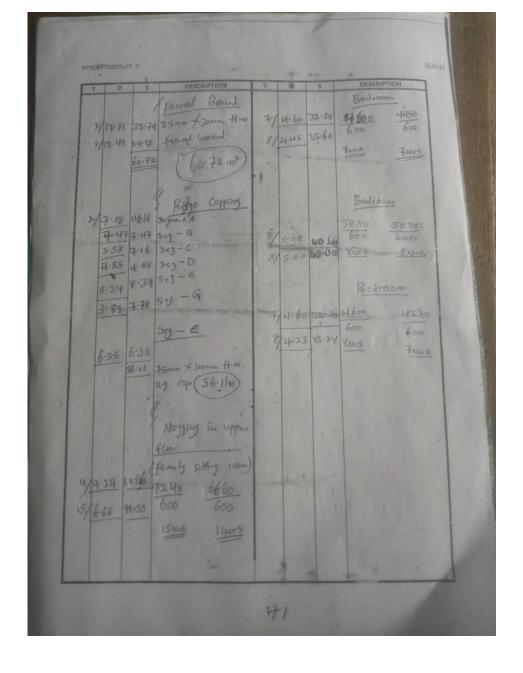
T D S DESCRIPTION	T	5 S	DESCRIPTION
Apof Structures			Section B
Wall plats			1
I tomas hard			111
129.65 129.65 75mm / loon - hard wood to wall plate			130 90
(129-65)	13	- 1	
129.00	1		N=7-47
			3.00
/ Pafetor M			
Segment A			6.85
			R2= 92+62
12.81			R= 6.85++92
12-01			= 46.79+9
		- 11	R= /55.99
3.00 \$ =4.08	1		1.47
R= a2+6+			No regurades 12
= 6:41"+3"			cle
= H1.01+9			1200
R = 50-90	-		13.6941= 141
			Segment c
A 50.9			- Segretaria
=7.08			1:1
No required be	20		4
/12810			2.1
1200 = 12-68+1			
= 12 ucs			2-90
1	-	-	- 70





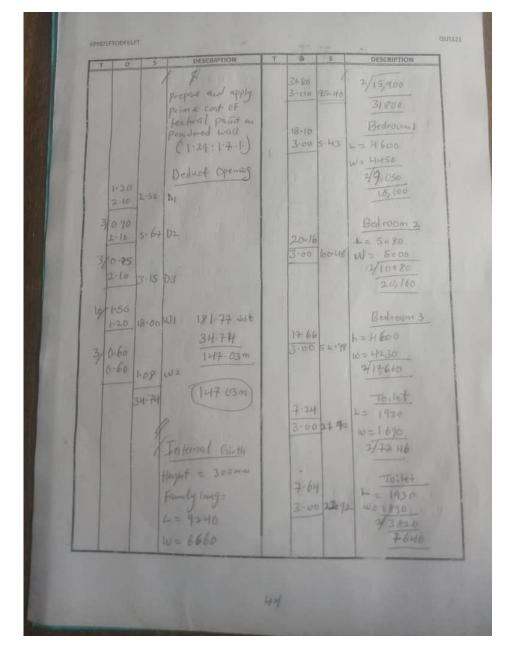
Structs M signest ABBEI 300 1800 600 5400	9/13-01 119-81 1	egonet E
200 1800 600 5400	4 12:01 H+81	1
200 1800 640 9400		The same of the sa
5400		1444
		V 0.90
		8-3+1=945
segment c/c	16/580 1480	Separato
2100	4 5 40 5 440	
900		100 + 27 mind 900
3000		3:58
Signort F/H		-
2540		3-9841 = 6115
100	Balling & St	
2/ 3.40 324 00		Segment D
2/3.00 6.00	6/7.61 H5.66 N	10 regulared 900 cp
15 man + lenomon +11-W		JH-85
2/3.90 790 grust 1 1200 c/c		09
(7.80m)		
	1000	5.3741 611
1 3	- 100 100 1	Segment &
1 purlin m	10/5.66 56.60	to required 9000
Segment A	1.7/2.00	
An required		0 8:34
900 %		
		9-29+1= lox
1 7.08	19/ 5:66 36.60	Segment f. 1911
V 0.9	1900	No required 90
1/12.81 115-29 7.87+1 = 9mrs		No 1-3X 1-1 IS
+ 0+1	12.4	V 8.21
		0.0.9
		9.12+1
		= IONES
	39	

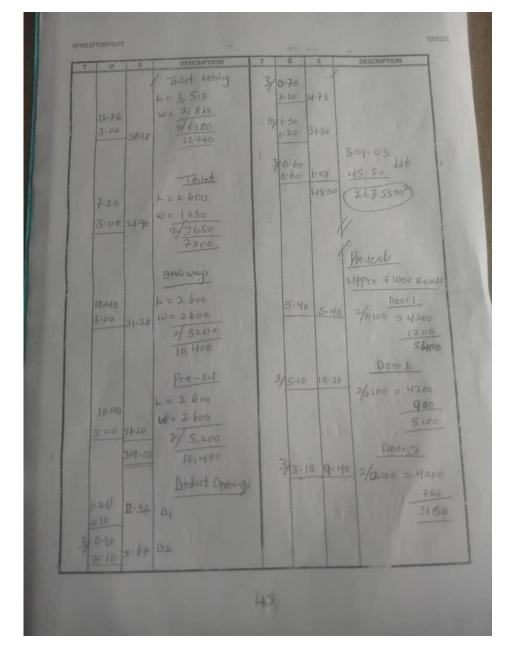




The second secon	1730 1690 600 600 3NM 3NM	4/2-60 10-40	1600 2600 600 600
	Tenlet		Pre-sit
3/1/93 5:74	1930 L89	1/2-60 10-40	- 600
3/1.89 5.62	Sans 30	4/2.60 (0.4	- HAUS HAUS
	760 LoSo 600		
4/1-05 4-20	Hairs 24		celling Finishe
3/1-70 5:10	1700 197		premium high quality custem design plaster
71-27 3-94	BOT 600		pairs (pop) ce in accordance Excepted ins
5/3-52 17-60	Toolet Lo	651	10.7.
6/2.87 17-22	3 520 285 600 600		prepare and perinting to g
	bases 544	3	Surface 3 3
			Friedrick a-8

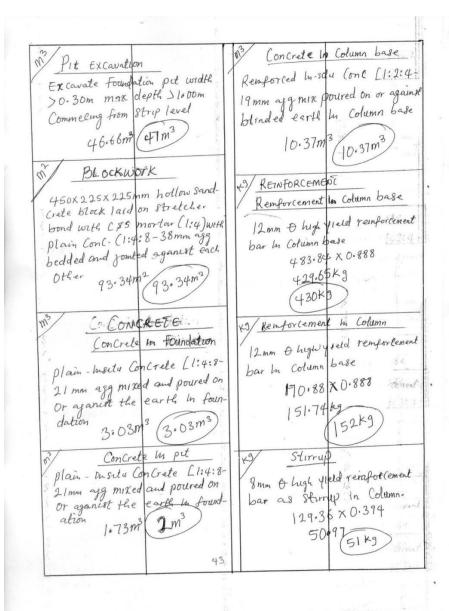
TIO	5	DESCRIPTION	7 D.	3	DESCRIPTION
10/1	3	Lebendond AND Doops Schedule Franches 1500 × 1200 1500 × 1200 1500 × 1200 Alumina Top trig Lembra aluminan pertally Glazed and top hig translave fored to maintacher details: W1 = 1500 × 1200 W2 = 600 × 600 (1.23-10.1.1) (13M5) DOUR Schodule 1200 × 2100 > 900 × 2100 > 750 × 2100		3 3	Liper floor Liper

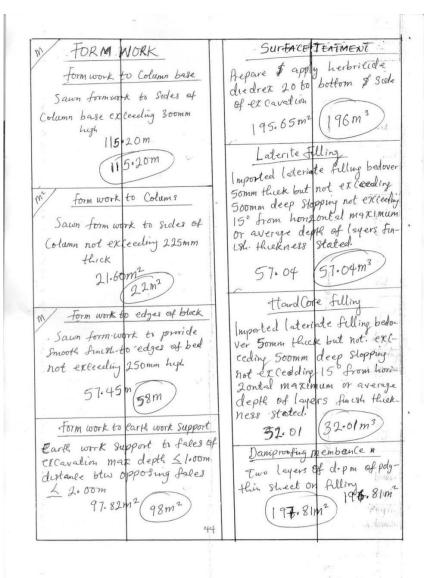


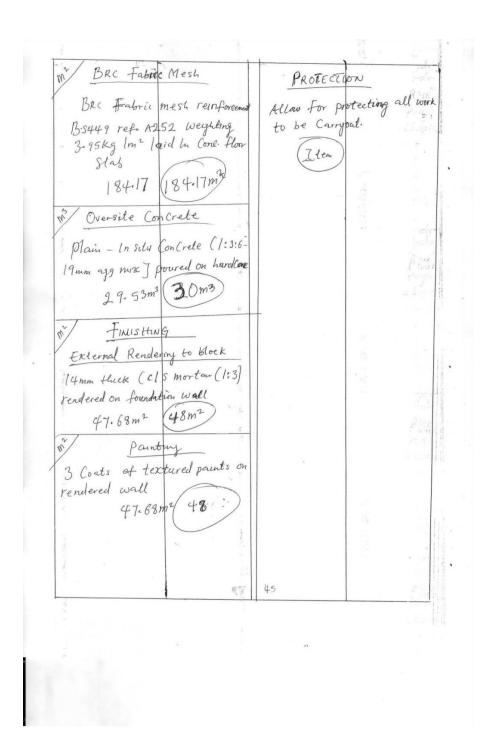


T D S DESCRIPTION	T B S DESCRIPTION
1 Comdons	9-24
	6.66 61 54 Family lung Jupper Flor
1200	4.60 20-47 Badroom Dapper F
7 2700	
3400	5.00 29.00 Bedrum 2) upper f
window 2	4-60 423 19-46 Bestroom 3) upper F
3 600	
3/240 7.20 600	1.93 Toulet
H155 OF	1.49 3.26 Toulet)
2400	1.93 1.89 3.65 Toolot)
(71.55m)	1-89 3.65 10.101
	3.52
	2.87 10.10 Toilet 20001
12 mm these comest	2.60
and sand-entering	1.05 2.73 Toulet
to book of manner	105 275
fruit L Goomin	2.60
I am for sole	2.60 6-76 Shirway
propert and apply 2 court of emulsion	
paint 7, 600 mm	2-60
a-6-d	2-60 6-76 presit
7-1.55m)	
	16373 (1.2.8.2.2.1.)
Floor Finishes	
rippor floor	(16373 m²)
lonen three lets	
fied flor tiles to	THE RESERVE AND PERSONS ASSESSED.
laid in Consut and	
Saul Strated bed	
(1-3) Hoothooslee	THE RESERVE
teles in floor	

BILLS OF QUANTITIES T	FOR THE PROPOSED
PROJECT OF FOUR BEARDS ONILETE QUETER'S INC	M NUPLEX ALCONE 201
	100 300 Chamer
ABSTRACTING SITEEL SUBSTRUCTURE (ALL PROVISIONAL)	Excavate Vegetable top Soil average deep 150mm thick and
EXCAVATION AND EARTH WORK	dispose of site
Plants	n3/ Disposal
Allow for brining into side all plant required and Subsequently removal of the plant from site	Deposite and excavate material 150mm deep top soil average da n.e 200mm non hargaelous mat
For all Section of work Item	from sile 31.50 m ³ 32m ³
Allow for maintaining on site	10 Trench Excavation
all neccessary plants.	Excavation of Foundation trenc 1.2m deep starting from strip
site preparation	level max depth n.e 2m deep off away from site
Clear site of bushes and tress Strup grass up their root	7.81m ³ (3m ³)
450.00m (450m²)	19 1 (A)
7	
42	Tron





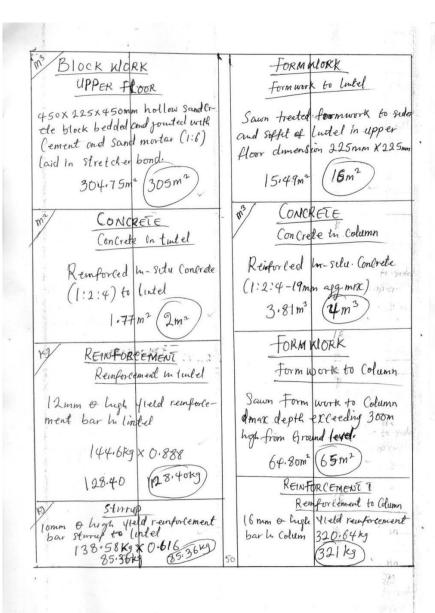


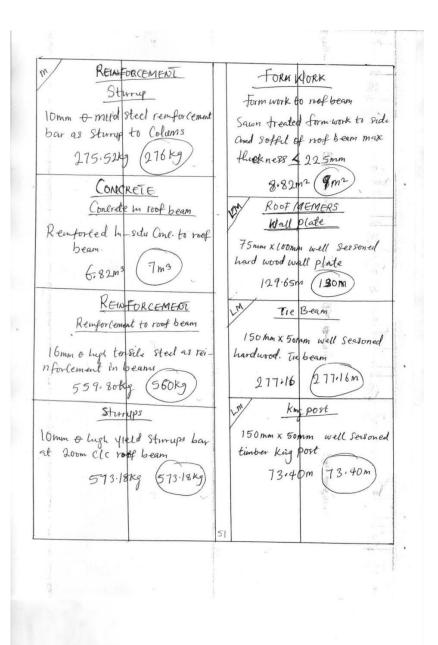
2	
SUPER STRUCTURE	rs/ STIRRUP IN LINTER
GROUND FLOOR	10 mm o high yeld reinforcement
Block work	bar as stirrup to lintel
C+50 x 125 x 125 mm hollow Sand- rete block bedal and jointed Will rete block bedal and jointed Will	142.68kg (43kg)
Coment and Sand more	m3/ CONCERTE
In stretcher bond.	Concrete to Column
247.49m² (248m²)	- Reinforced In situ - Cont. [1:2:4 -19mm agg mix] powed to Columns
	- Leinforced In Situ - Cont. L1.2.4
Concrete in lintel	- (9mm agg min) pour
Reinforced In- situ Contrele	ns 3.81m³ (4.m³)
(1:2:4) to lintel	Form work to Column
(1.2.4)	to Column max death
1.63m3 (2m3)	Form work to Column max depth
Renfercament in lineal	executing 8000m high from grand
indid reulonlement	64.81 (05.
12 mm & high yield renforcement	Renforcement to Column
bar In Lintel	16mm + high yield reinferteme
136.52 X 0.888	16 mm Dright
121.23 [21.23kg]	331.2 kg 523 kg
Form work to lintel	
San treated form work to she	1.578
and soffil of linter in ground the	522.6379
dimension L'Ismm XIIsmm	
14.06m2 (15m2)	
	46

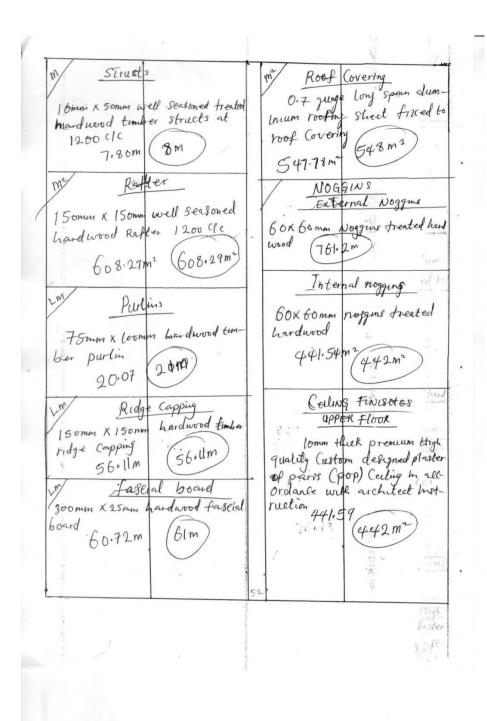
	1 / t work to heam
Stroup to Cotumn	Form work to beam
10mm o mild steel remforce-	Sawn treeted formwork to ride
Comm & mila state	and soffit of beam max thick
ment baras storrups reinforce-	ness < 225
ment to Column	
252.00 × 0.616	133.18m (134m²)
252.00.3 155.23kg	3 CONCERTE
1552 0	1/ C of the in Suspendent
M3/ CONCRETE	Plan - In-sity Congrete (1:3:6-19mm
Concrete in beam	plan - In-site (one renforcement bar agg mrz) poured on renforcement bar
Reinforced In-situ Concrete	agg mine spoured of
1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	2 9.53 m ³ 30 m ³
10 52 m 3 (17:11m3)	29.53m
12.11 m ³ (12:11 m ³)	Reinforcement in suspended
13 Reinfortement to beam	Stab 1
16mm & high tensile steel as re-	6mm o high yield reinforcemen
1. 1 1. Al. heam	ban to Suspended 81ab
512,64 512,64 1578 = 808 95 80.9 kg	2.03× 1.578
	2.03 1.510 3,20 kg 3.20 kg
Stump to beam	Formwork to Suspended Stab
Comm & Engle field Storups bour	a spaled from work to the
ad 200m C/C to beam	Ender and soffe of Conc.
	Suspended 8/ap
812.8 0.616	254.27m² (254.27m²)
500.68 (501kg)	254.27 (254)
	41
	- 100 mg
	3
9	

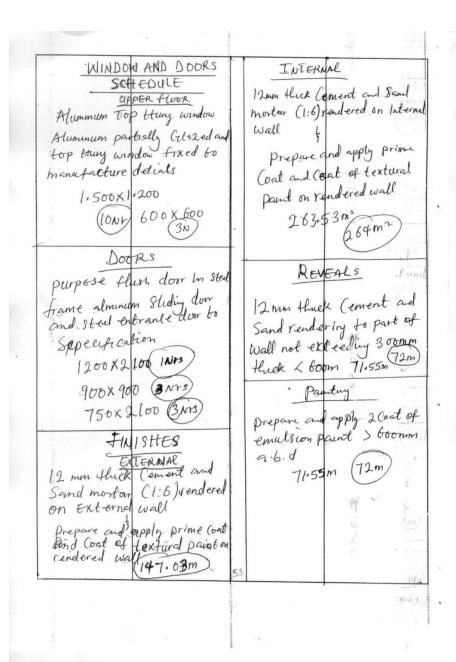
MINDOW Settebule Finished Huminum Top Hung window, Aluminum Partially Cilazed and top tune window fixed to manuf. Sture of the window, Aluminum Top Hung window, Aluminum Top Hung window, Aluminum Partially Cilazed and top Hung window fixed to manufacture detials Size boox 600 Door Settebult Finishtes Prepare and apply 20al emulsion pand & 60mm 67.70m 68m Finishes Fram Aluminum Stiding door and steel entrance door to Specification 1200 x 2100 Purpose flush door in steel fram Aluminum Stiding door and steel entrance door to Specification External wall.	or
Immoum partially lilazed and top tung window fixed to manuf cture oletials 312e 1500 × 1200 (191075) KEVEALS 12mm thick Ceneut and Se trendering to part of wall exceeding 300mm flick & 6 Tendering to part of wall exceeding 300mm flick & 6 Prepare and apply 20al emilsion paul & 600mm 67.70m 68m Fram Alumnum Sliding door and steel entrance often Specification 750×2 Ams Alumnum Top thung window, Alu- immunim partially Glazed and top thung window fixed to manufacture detials Size boox 600 Prepare and apply 20al emilsion paul & 600mm 67.70m 68m Fivishes Wall Finishes Nam Huck Cement and Specification Mortar (1:6) rendered on	in
thuminum Top Humi window, Aluminum partially Glazed and top Humi window, Aluminum partially Glazed and top Humi window fixed to minum partially Glazed and top Humi window fixed to minum partially Glazed and top Humi window fixed to minum partially Glazed and Frendering to part of wall exceeding 300mm fluck & Coment and Somm Size book 600 2007. Door Settebult Fivisttes Pourpose flush door in stell fram Aluminum sliding door and steel entrance door to Specification Specification 750×2 I MOS ALIS 12mm thick Coment and Second Coment and Second Steel entrance door to mortar (1:6) rendered on	TU
Cture detials 312e: 1500 × 1200 (19iors) REVEALS 12mm thick Coneut and Serendering to part of wall exceeding 300mm fluck & 6 12orr, Door Settebult Fivisites Pierpose flush door in stell Fram Aluminum sliding door and steel entrance door to Specification 2 NTS 12mm thick Coneut and Serendering to part of wall exceeding 300mm fluck & 6 Prepare and apply 20ad emulsion paul > 600mm 67.70m (68m) Fivisites Wall Finishes 12mm fluck Cement and Serendered on	100
Thuminum top them window Aluminum partially Glazed and top thing window Fixed to manufacture detials Size 600x 600 Door Sette Dult Fixisttes Pidrpose flush door in stell fram Aluminum sliding door and steel entrance door to Specification REVEALS 12mm thick Centeut and se rendering to part of wall exceeding 300mm thick & 6 Prepare and apply 2 load emilsion paul > 600mm 67.70m 68m Fixisttes Wall Finishes 12mm thick Centeut and se wall exceeding 300mm thick & 6 Mortar (1:6) rendered on	
Muminum Top Hung window, Alganianum partially Galazed and top Hung window Fixed to manufacture detials Size 600× 600 Door Sette Dult Twistles Pictipose flush door in Stell Fram Aluminum Sliding door and steel entrance door to Specification REVEALS 12mm thick Cement and served ending to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 rendering to part of wall exceeding 300mm fluck & 6 mulsion paul > 600mm 67.70m 68m Finistle 3 Wall Finishes 12mm thick Cement and served ending 300mm fluck & 6 REVEALS	To
theminum top them window, Aluminum partially Glazed and top themy window fixed to minus feed feed and apply 20 and 2007. Door Sette Dult Fivisites Pourpose flush door in stell fram Aluminum sliding door and steel entrance door to Speake entrance door to mortar (1:6) rendered on	
minum partially Glazed and top Itung window fixed to minufacture detials Size boox 600 Door Sette Dult Finisttes Piarpose flush door in stell fram Aluminum sliding door and steel entrance door to Speak entrance door to Speak entrance door to mortar (1:6) rendered on	i czak
minum partially Glazed and top Itung window fixed to minufacture detials Size boox 600 Door Sette Dult Finisttes Piarpose flush door in stell fram Aluminum sliding door and steel entrance door to Speak entrance door to Speak entrance door to mortar (1:6) rendered on	,
top Hung window fixed to mn- pufacture detials Size 600× 600 Door Sette-Dult Twisttes Pictipose flush door in stell Fram Aluminum sliding door and steel entrance door to Specification Frendering to pair of wall excleeding 300mm fluck & 6 emulsion pairl > 600mm 67.70m 68m Finisttes Wall Finishes 12mm fluck Cement and: Specification	and
Size 600× 600 Size 600× 600 Prepare and apply 2 Coat emulsion paul > 600mm 67.70m 68m Fram Aluminum Stiding door and steel entrante door to Specification Prepare and apply 2 Coat emulsion paul > 600mm 67.70m 68m Finishes Wall Finishes 12mm + Cick Cement and Specification Mortar (1:6) rendered on	not
Size 600x 600 (2017) Door Sette Dult Finisttes Pitrose flush door in stell Fram Aluminum sliding door and steel entrance door to Specification Prepare and apply 2 load emulsion paul > 600mm 67.70m 68m Finistte s Wall Finishes 12mm thick Cement and : Specification Mortar (1:6) rendered on	DOM
Door Sette-Dult Fivisites Pourpose flush door in stell Fram Aluminium sliding door and steel entrance door to Specification emulsion paul \$600mm 67.70m 68m Fivisites Wall Finishes 12mm Hack Cement and: mortar (1:6) rendered on	of
Door Settebule Finistes Pourpose flush door in stell Fram: Aluminum stiding door and steel entrance door to Speake entrance door to Mortar (1:6) rendered on	
Door Settebule Finistes Pourpose flush door in stell Fram: Aluminum stiding door and steel entrance door to Speake entrance door to Mortar (1:6) rendered on	9.1
Fram Aluminum Stiding door and steel entrante door to Speake entrante door to Mortar (1:6) rendered on) —
Fram Aluminum Sliding door and steel entrante door to 2 montar (1:6) rendered on Mortar (1:6) rendered on	1000
Fram Aluminum Sliding door and steel entrance door to 12 mm thick Cement and : Specification Mortar (1:6) rendered on	
Specification mortar (1:6) nendered on	100
Specification mortar (1:6) nendered on	
1200 x 2100 External wall.	DOM
	(0)
(INTS) 142.2m2 (142.2m2	
(1922))
Purpose Hush dow in steel painting	
from Aluminum Sliding door and prepare and apply Prime	
Fram Aluminum Slying dorr and prepare and apply prime stell entrance door to and 2 Coat of textural pain rendered wall (1802)	Coal
Specification 900x 2100 rondered wall (142.2m	Cocil
(4NTS) 142.2m (442.2m	Cocil

12mm thick Cemeil and Sand	PROTECTION		
Morlar (1:6) rendered on Internal	Allow For s	ntection	of all
wall 295.23 (195.23m2)	work in this :	1000	lu cludi.
m' Pambing	the worker on	Sete	
Prepare are apply prime Cost	Item	E.	
and 2 Coat of textural paint		4	
On rendered well			
2.95.23m² (2.95.23m²)			
m Floor Florstes			91.30
10mm thick Untrifed floor			
tiles laid in Cement and Sand		134	
Screeded (1:3) 400×400×8 Hoor			
tules on floor 77.93m2 77m2			
CELLING FINISHES			
Ground floor			ed of
10mm thick premium tight quality			1.
Custom designed plaster of page			
(pop) Ceiling in allordance with			
architect Instruction			
76.93 m2 (77m2)			
4	9		
1			W. W.









w/ ti	1		
FLOOR FINISHES			. 20 20 3
UPPER Flook			4
Comm thick Vitrified floor			ė.
ticles laid in Coment and Sand Secreeded bed (1:3)		11	
Gand secretary startites		9	
0 11 (100)		1 2	
163.73m2 (164m²)		00.7	
PROTECTION.		•	
1	*		
Allow for protection of all nork in this section			4.
meludy the works on Site			11
ltem		3	
1			
1	*		
	*		
		100	
		1	201
	54 .		
11112		-	, land

${\bf ANUNPRICEDBILLOFQUANTITIESFORPROPOSEDFOUR (4) BEDROOMDUPLEX\ FOR\ Dr.}$ ${\bf MUHAMMED\ BASHIR\ KOLAWOLE}$

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR				
	SUB-STRUCTUREFORPROVISIONAL)				
A	PLANT				
			Item		
	<u>Maintenance</u>				
В			Tu		
	Allowanceformaintenanceofallplantinthissection		Item		
	ExcavationandEarthwork				
	Clearsallbushes, shrubs, undergrowth and grubup	450	m ²		
С	Rootsincludingcuttingdownsmalltreesanddisposed off- Site				
D	Excavatevegetabletopsoilaveragedepth150mmdeep	210	m ²		
E	Disposeandexcavatematerial 150 mmdeeptopsoilaverage deep n.e 200 mm non harzadous material max. distance 150 mmaway from site	32	m ³		
	Excavatetrenchstartingfromoriginalgroundlevel				
	Maximumdepthnotexceeding1.5m	8			
F			m ³		
	<u>PitExcavation</u>				
	Excavatefoundation pitexcavation dept \$30.30 maximum				
	5mdepth>1350commencingfromstriplevel	47	m ³		
G					

	Earthworksupport			
	Earthworksupporttofacesofexcavationmaxdepth1.00m			
Н	distancebetweenopposingfaces2.00m	98	m^2	
	Hardcorefilling			
	300mmapprovedhardcorefillingmakinguplevels			
J	depositedandcompactedin300mm layers	22	2	
		32	m ³	
	Dittotolateritefilling150mmthick			
K		57	m^2	

Item	Description	Qty	Unit	Rate	Amount
	LevelingandCompacting				
A	Levelandcompactbuttoofexcavationofreceiveconcrete	100	m ²		
В	SurfaceTreatment Prepareandapplyherbicidesattermitesolutiontosurface And sides of excavation	198	m³		
С	Concretework				
	Plainconcrete(1:10)at				
	50mminblinding	3	m ³		
	Reinforceintoconcrete(1:2:4)in:-				
D	DittoinColumnbase	10	m ³		
E	Rienforedinsituconcrete1:2:4mix19mmaggincolumn Base				
	poured against the earth	2	m ³		
F	Bed(oversiteconcrete)	30	m ³		
	PACE2TOCOLLECTION				
	PAGE2TOCOLLECTION				

Item	Description	Qty	Unit	Rate	Amount
	Plaininsituconcrete(1:3:6–19mm)Aggregatein:-				
	Foundation concrete not exceeding 230mm thick	3	m ³		
A	Reinforce				
	High tensile rod reinforcement to national				
	industrialstandard'1988'purchasedinstandardLengthcut				
	andbent on site in:		Kg		
В	12mm diameter in column base	430			
С	12mmdiametercolumnincolumn	152	Kg		
D	8mmdiameterstirrupsincolumn	51	Kg		
	<u>Formwork</u>				
	Formworktoproducesmoothsurfacetobeandfoundation				
	Sidesofcolumnbasesplainverticalheight300m Sides of				
	columns		m ²		
Е	Toedgesofbednotexceeding250m	115	m ²		
F	1 oedgesofbedhotexceeding250iii	22			
G	BlockWork	58	m ²		
	450 x 230 x 230mm hollow sandcrete block approved	30			
	manufacturer laid in stretcher bond keyed both edges in				
F	cementandsandmortarincludefillinghollowwithweak		m^2		
	concrete		1112		
	Dittodampproofmembrane	93			
	PAGE3TOCOLLECTION		m ²		
	96	197			

Item	Description	Qty	Unit	Rate	Amount
	<u>Finishing</u>				
	CementandSand(1:4mix)in:-				
A	14mmthickrenderingonblockworkexternally	48	m ²		
В	Prepareandapplyprimecoatand3coatsoftexturepaint on rendered wall	48	m ²		
С	PAGE4SUB-STRUCTURECARRIEDTO SUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	SUPER STRUCTURE				
	ELEMENT				
	NR2FRAMEWORKGENERAL				
A	<u>LY</u>		Item		
	The contractoris refused to all architectural andstructural Drawingsfordetailsofthisnatureandcontextofthework To be executed in this section				
	<u>Plant</u>				
В	Allow forbringing in to and removing from it all Necessaryplantsrequiredforthissectionofwork				
	<u>ConcreteWorks</u>				
	Vibrated reinforced in situ concrete(1:2:4				
	19mmaggregate)fieldaroundreinforcement(bothmeasure				
	dseparately) in:-	4			
С	Column	12	m ³ m		
D	Reinforcedinsituconcretetoisolatedbeammaximum		3		
	Thickness not exceeding				
	Lintel	2	m ³ m		
E	Inslab	30	3		
F	IIISIAO				
G	Reinforcement				
	HightensileandreinforcementtoNIS11/1988asbefore	523	Kg		
	described	809			
A	12diameterincolumn 98		Kg		
В	12mmdiameterinbeam				

Г	С	12mmhightensileyieldreinforcementbarlaidstraightand bent	121	Kg	
		in lintel		8	
	D	16mmhightensileyieldreinforcementbarlaidstraightand bent			
		in slab			
	E	10mmdiameterlinkincolumn			
	F	10mm diameter link in beam	155	Kg	
		10 cm. Parasta Palain Patal	501	Kg	
	G	10mm diameter link in lintel	143	Kg	
	Н	10mm diameter link in slab	143	128	
		<u>Formwork</u>			
		Sawntreatedformworktoproducesmoothsurfaceto:			
	A	Sidesofcolumn to			
		beam	65	m ²	
	В	Inlintel(externalandinternal) to	134	m ²	
	C	suspended slab		m ²	
			15	111	
	D	Toedgesofslab		m ²	
			254		
		PAGE10CARRIEDTOSUMMARY			
		THE SELECTION OF THE SE			
		99			

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR3				
	EXTERNALANDINDUSTRIALWALLS				
	<u>ConcreteWorks</u>				
	Vibrated reinforced in situ concrete(1:2:4–				
	19mm)aggregatefilledintoformworkandwellpacked				
_	Reinforcedinsituconcereteasbeforedescribedincoping		m ³		
A	<u>Formwork</u>	2			
	Sawnformworktoproducesmoothsurface to:-				
			m ²		
В	Sawnformworktosidesandsoftofcoping	22			
	Blockwork				
	Hollowsandcreateblocknormalsize450mmx230mm				
	230walls		m ²		
С		385			
	PAGE3BLOCKWORKTOSUMMARY				
	_INGLODEOCKWOMKIOSUMMAKI				
	100				

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR4				
	<u>STAIRHALL</u>				
	ConcreteWorks				
	Reinforcedinsituconcrete1:2:419mmagg.Mixin				
	sloppywork≤300mmthickinstaircasepouredagainst ≥150				
		2	m ²		
A	Staircase				
	<u>Finishestostaircase</u>				
	25mmthickcementandsand(1:4)plainrenderingfinishes				
	Trowelledsmoothtostaircaseexceeding600mmwidth				
	Prepareandapply2costofemulsionpainton:-				
	300mmgirthonrenderedwalltothesloppingwork				
	<u>Formwork</u>	11	m ²		
В	Sawnformworktoproducesmoothsurface to:-	11	III		
	Toallstaircase				
	Reinforcement	11	m ²		
	12mmreinforcementbarlaidstraightinstairandbent				
	toNIS11/1988asbeforedescribe	(4			
	Tostairhall	64	m ²		
C	Linkandstirrupstostairhall				
	PAGE4STAIRHALLTOSUMMAR _I Y) ₁				
		141	kg		
D					

	Description	Qty	Unit	Rate	Amount
Item					
	ELEMENTNR5				
	ROOFCOVERING&STRUCTURE				
	0.55mmcorruptedcolourfinishlongspanaluminumroofing				
	sheet laid at shop end and sides lap nailed inpurlins				
	Roofcovering	7.40	m ²		
A	Ridgecappingnotexceeding600mm width	548 56	m		
	Roofcarcassing				
	50x150mm hardwood after50	608	m		
С	x 75mm hard wood purlin	21	m		
D	50x150mm hardwood struts	8	m		
Е	50 x 150mmhard wood king post	73	m		
F	50 x 150mm hard wood tie beam	277	m		
G	75x100mmhardwoodwallplate 25	130	m		
Н	x 300mm fasicia board	61	m		
J	60mmx60mm noggins externally	761			
M		701	m		
	60mmx60mmnogginsinternally	442	m		
N					
	25x300mmridgeboard 102	56	m		
P	PAGE7ROOFCOVERINGANDSTRUCTURETO SUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	ELEMENT				
	NR5WINDOWANDDOO				
	<u>R</u>				
	WINDOWS				
	Supplyandfixaluminumglazedslidingwindowwithaluminu				
	m frame and top light to aluminum frame				
A		19	Nr		
В	1500x1200mm	2	Nr		
	600x600mm				
С	<u>DOORS</u>	1	Nr		
	1200X2100mmpurposelymadealuminiumframed security				
D	door	4	Nr		
	900x2100mmpurposelymadealuminiumframedpanel door				
Е	750x2100mmpolishedhardwoodflushdoor	2	Nr		
	PAGE8DOORANDWINDOWTOSUMMARY				
	103				

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR6				
	<u>MECHANICALINSTALLATION</u>				
A	AllowaPCsumofNformechanical	Sum			
В	Allowforprofits				
C	Allowforattendance				
	PROVISIONALSUM				
	Allowforprovisionalsum <u>N</u> for	sum			
A	builder'swork				
	104				
	PAGE9SERVICESCARRIEDTOSUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR7				
	FLOORWALLANDCELLINGINTERNALANDEXTER				
	NAL WORK				
	FLOOR				
	50mmtickcementandsand(1:6mix) beds				
	400x400x10mmglazedvertifiedfloortiles	77	m ² m		
A	1:4Concretemixonfloorbedwellcompactedtoreceive tiles	77	2		
В		, ,			
	WALLFINISHING				
	(1:4mix)cementandsand				
	12mmthickrenderingonblockwallinternalandexternal				
		437	m ²		
С	<u>CEILINGGROUNDFLOOR</u>				
	10mmthickpremiumhighqualitycustomdesignedPlaster of				
	Paris (POP) ceiling in accordance with architect instruction	77	m ²		
E		77			
	PAGE10FLOORWALLANDCEILINGFINISHING TO				
	SUMMARY				
	105				
	103				

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR8				
	<u>PAINTINGANDDECORATION</u>				
	<u>Internally</u>				
	Prepareandapply2costofemulsionpainton:-				
A	WallInternally	295	m ²		
	Externally				
	Prepareandapply2coat6ofemulsionpainton:-				
	Wallexternally	142	m ²		
В					
	PAGE11FINISHINGCARRIEDTOSUMMARY				

Item	Description	Qty	Unit	Rate	Amount
	ELEMENTNR9				
A	BRCwiremesh	185	m ²		
В	Metal work		Nr		
С	Metal surface		m ²		
D	Grill panels		Nr		

ESLEMENTNR	ITEMS	PAGE	AMOUNT
A	SUB-STRUCTURE	1-4	
В	FRAMEWORKGENERALLY	5	
С	EXTERNALANDINTERNALWALL		
D	STAIRHALL	7	
E	107 ROOFCOVERING&STRUCTURE	8	

F	DOORANDWINDOW SERVICE	9	
G	FINISHING(FLOOR,WALL& DECORATION)	10	
Н	FINISHING(PAINTING&	11	
J	DECORATION) PAGE13MAINBUILDINGCARRY TO	12	
	GENERALSUMMARY		

GENERALSUMMARY	
PRELIMINARIES	
MAINBUILDING	
EXTERNALWORKS: (allowaprovisionalsum of two hundred and fifty thousand Naira for septic tank and soak away including inspection chambers as directed).	
SUBTOTAL1	
CONTINGENCIES	
SUBTOTAL2	
ADDVAT7.5%	
ESTIMATEDTOTALCOSTCARRIEDTO TENDER	
GS/HALL/001 109	

CHAPTERFIVE

SUMMARY, CONCLUSIONAND RECOMMENDATION

SUMMARY

The abandonment of several building project in the located at No. 25, Onilete quarters, Iwo, Osun state. which is believed to because by in adequate pre-project planning and budget, gives raise for the need to estimate and budget for a medium scale building project located at No. 25, Onilete quarters, Iwo, Osun state.

In achieving this aims, a site review was given through during the site investigation no scientific test was carried out but the school was assured fim and well vegetated and protected from degradation.

After the site visit and investigation, a bill of quantities for the propose medium scale building was prepared using the site preparation process of taking-off of clement in the drawing provided, by broking down the dimensions of each item in the dimension sheet.

Then, the absent in process, where the collecting of similar measured items, collected from the squared imensions of the taking-offsheet is grouped together and ready for the bill of quantities.

When the taking-off of measurements and the obstructing process were completed, the mainandfinalbillofquantities for the proposed project was then construction of building.

CONCLUSION

Inconclusion, we observed that estimating and budgeting for a medium scale building project is very important because:

- 1. Itenablesallcontractorstendingforacontracttopriceonexactlythesame information with a minimum of efforts.
- 2. Itprovidesabasisforthevaluationofvariationwhishoftenoccurduringthe progress of the work.
- 3. It serves asguidelineforanyonethe contractors.
- 4. Fullydescribedandaccuratelyreportthequantityoftheworktobecarriedout.
- 5. Afteritemsarebeingpriced,itprovidedagoodbasisforananalysiswhich subsequently will be of use future contracts in cost planning work.

RECOMMENDATIONS

It is submitted that adequate planning comprehensive pre-project planning, comprehensive brief from the client guided by feasibility and viability studies should be embarked upon before the commencement of any project and to capitall, a proper and carefully calculated estimate must be made to adequately budge a substantial amount before the start of any project.

In viewof theabove, it is recommended that:

- 1. Before the commencement of any project, a site visit and investigation should be carried out i.e. the site should be subjected to scientific analysis, analysis like the 5001 bearing capacity test, ground water table test, and topographic survey.
- 2. The natural of site must be critically analyzed proximity and availability of resources, plants and manpower (Artisans are labourers) to the site must be put in to considerations during the site visit and investigation.
- 3. For a project to be adequately financed, it is recommended that, the quantity surveyor should be well equipped with adequate design information drawing of the projectenable himtake-offabstract, prepare a comprehensive bill of quantities which will be used for the budgeting of the project in view.

REFERENCES

BuildingandEngineeringStudentand MethodofMeasurements(BESMM4)