

Database Requirement Specification

for

IICT Construction Site Management System



Course Name: Database Management System Lab

Course Code: SWE 328

Project Supervisor:

Dr. Ahsan Habib

Assistant Professor, IICT, SUST

Submitted By:

Team The TechNerds

Team Members:

1. Md Sadman Hafiz (Reg:2018831057)
2. Sanjana Afrin (Reg:2019831054)
3. Ashrafur Rahman Chowdhury (Reg:2019831070)
4. Shaikh Ifaz Aiman (Reg:2019831031)

Date Of Supervision:

15th March 2023

15th March, 2023

Dr. Ahsan Habib
Assistant Professor,
IICT, Shahjalal University of Science and Technology, Sylhet

Dear Sir,

We have prepared the attached report on the Software Requirements Specifications of “IICT Construction Site Management System” application for your approval. This report describes the project requirements we've gathered so far.

The major objective of this report is to provide a synopsis of our results from our Project field work. This report contains the specifics of each process used to gather the requirements.

Sincerely yours
Md Sadman Hafiz
Team Leader ,
On behalf of
Team The TechNerds

Enclosure: Collected documents so far

Executive Summary

IICT Construction Site Management System

In 2023, the construction project in our building was still being controlled manually, and we, Team The TechNerds, IICT, SUST students, were thinking about it. We have therefore chosen to totally automate the management of the entire construction site in order to reduce the stress on the staff working on our own building.

Our project intends to build a database that will allow workers to manage the entire building site almost entirely without paper.

Brief Introduction

Construction Site:

Construction site management is the process of organizing , planning, and monitoring the work being done on a construction site to make sure the project is finished on schedule, on budget, and in accordance with all applicable laws and safety requirements.

Project Idea Development:

Handling a building site manually can be difficult and intimidating. Handling a construction site management system manually can lead to a number of issues, such as

- ➔ Lack of real-time data
- ➔ Safety concerns
- ➔ Ineffective communication
- ➔ Difficulty in managing resources.

In this situation, In order to streamline procedures, enhance communication, and boost productivity overall, a construction site database management system can be very helpful in managing construction site activities.

Project Storyline

Receiving contract:

It goes through some approval process from the proper stakeholder or Owners

Planning:

This involves developing a project plan that outlines the scope of the project, the timeline, the budget, and the resources required.

Site Preparation:

Once the project plan is in place, the site preparation process begins. This involves clearing the site, setting up the construction site office, installing temporary facilities.

Procurement:

The procurement process involves identifying and purchasing the necessary construction materials, equipment, and supplies.

Division of the Whole Project into Subparts:

According to IICT Construction Site Engineer, they divides the whole project into sub parts and contracts with the external service providers for the specific subtasks.

Quality Control:

This involves regular inspections and testing to verify that the work meets the required standards and specifications.

Project Management:

This includes managing the project team, coordinating activities, communicating with stakeholders, and monitoring progress against the project plan.

Basic Workflow

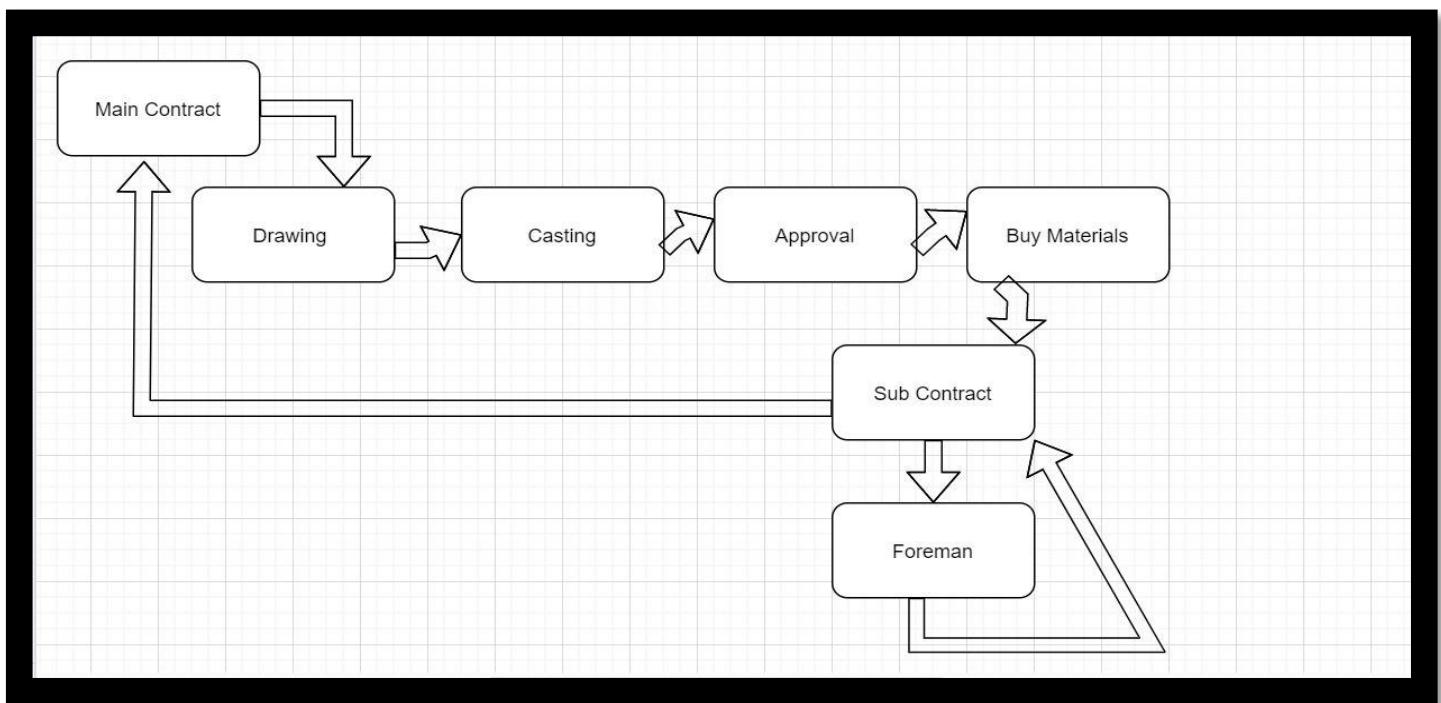


Figure 1:Basic Workflow of Construction Site

Collected Data

1. Site Images:



Figure 2: IICT Construction site Image1



Figure 3: IICT Construction Site Image2

The fig-2,fig-3 shows images of the actual project of IICT construction site where the whole management system is being controlled and other necessary jobs being done.

2.Design and Approval Documents:

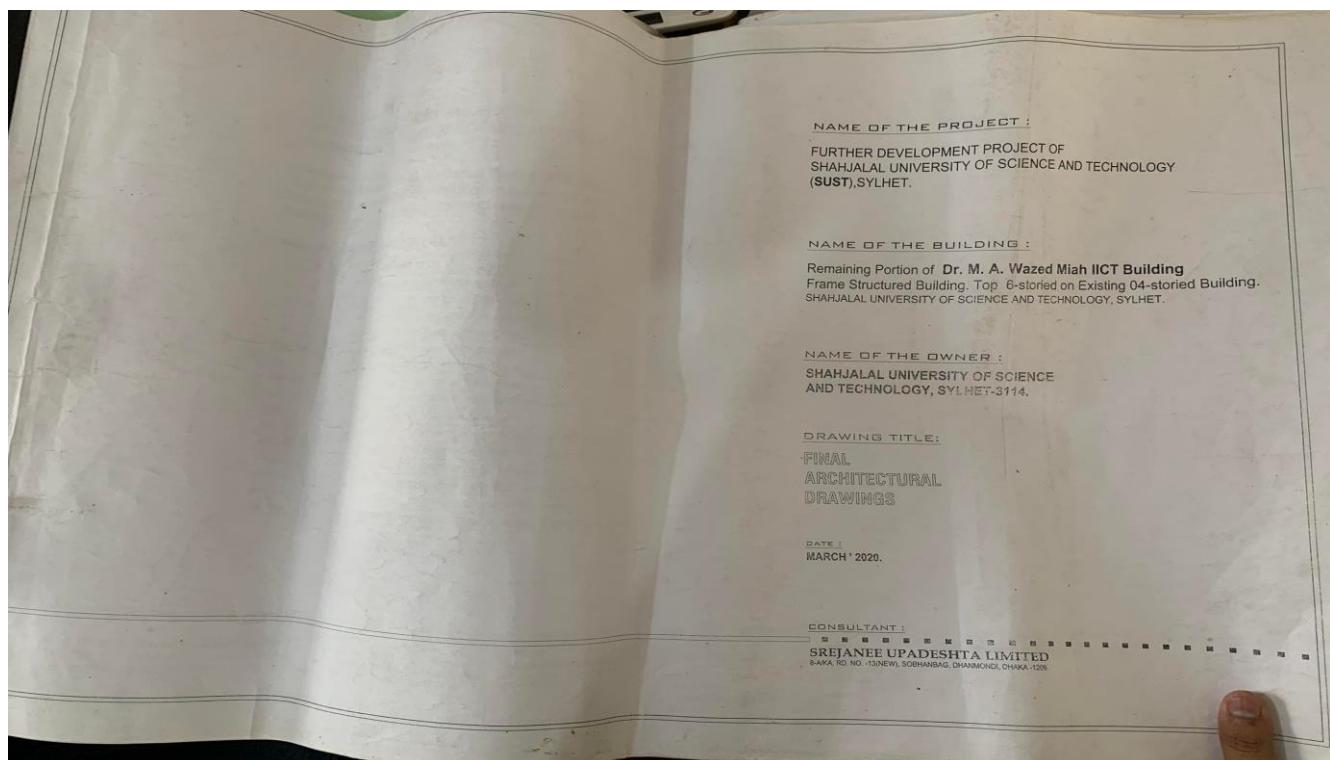


Figure 4:IICT_Design1

-Front Page of the Detailed Design of IICT building which includes the whole overview of the project

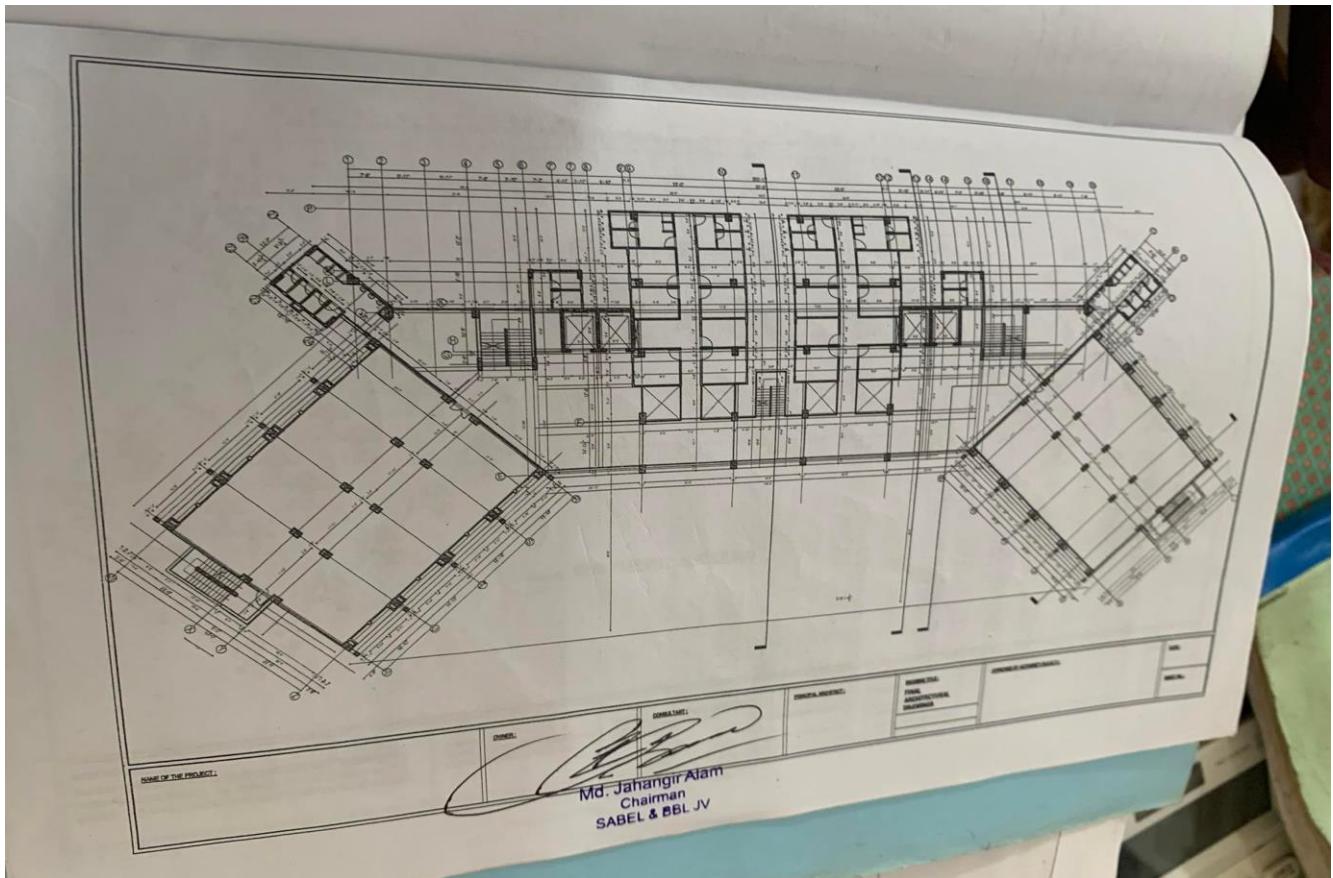


Figure 5:IICT Design 2

More Detailed info

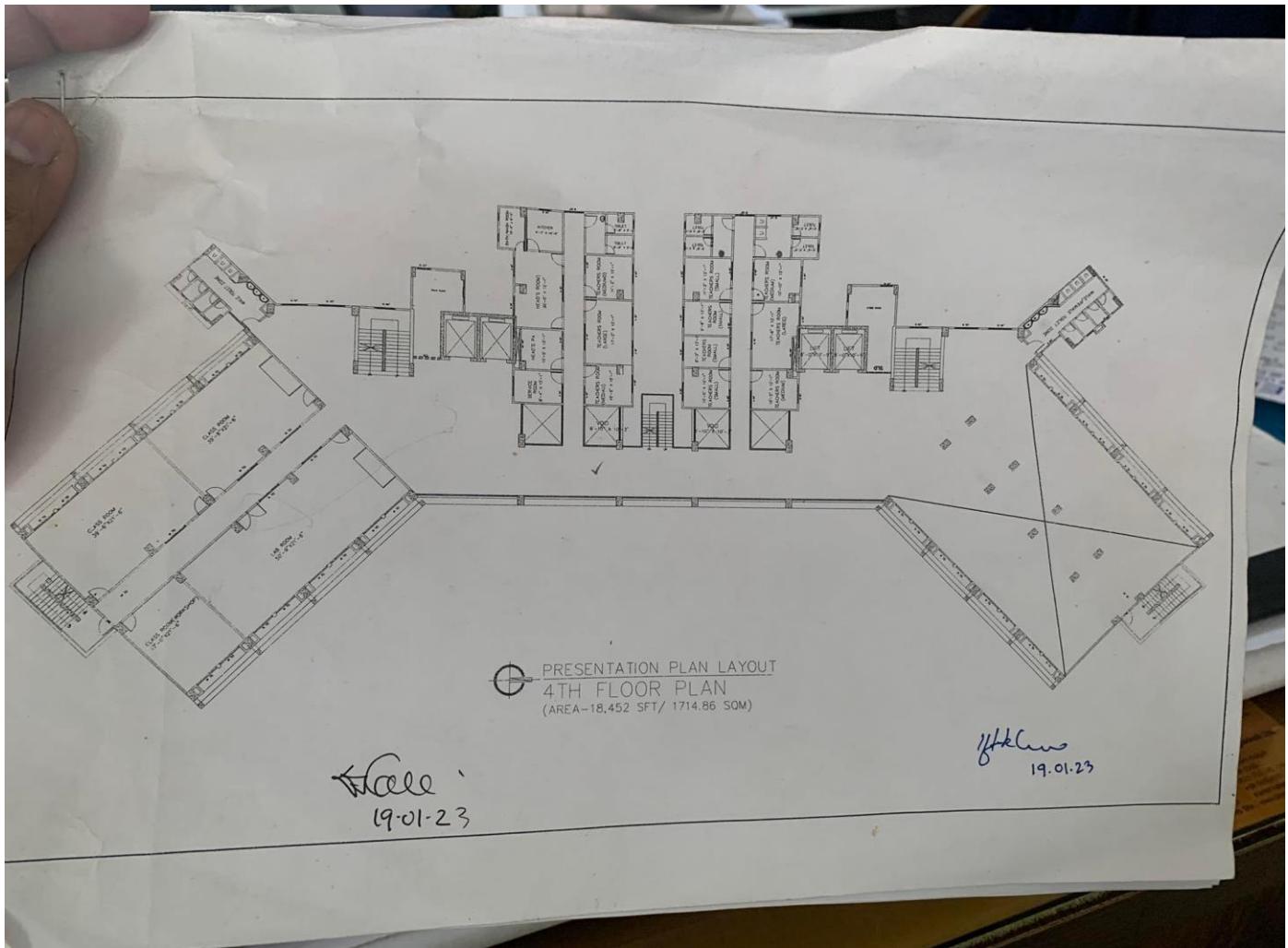


Figure 6:IICT design3

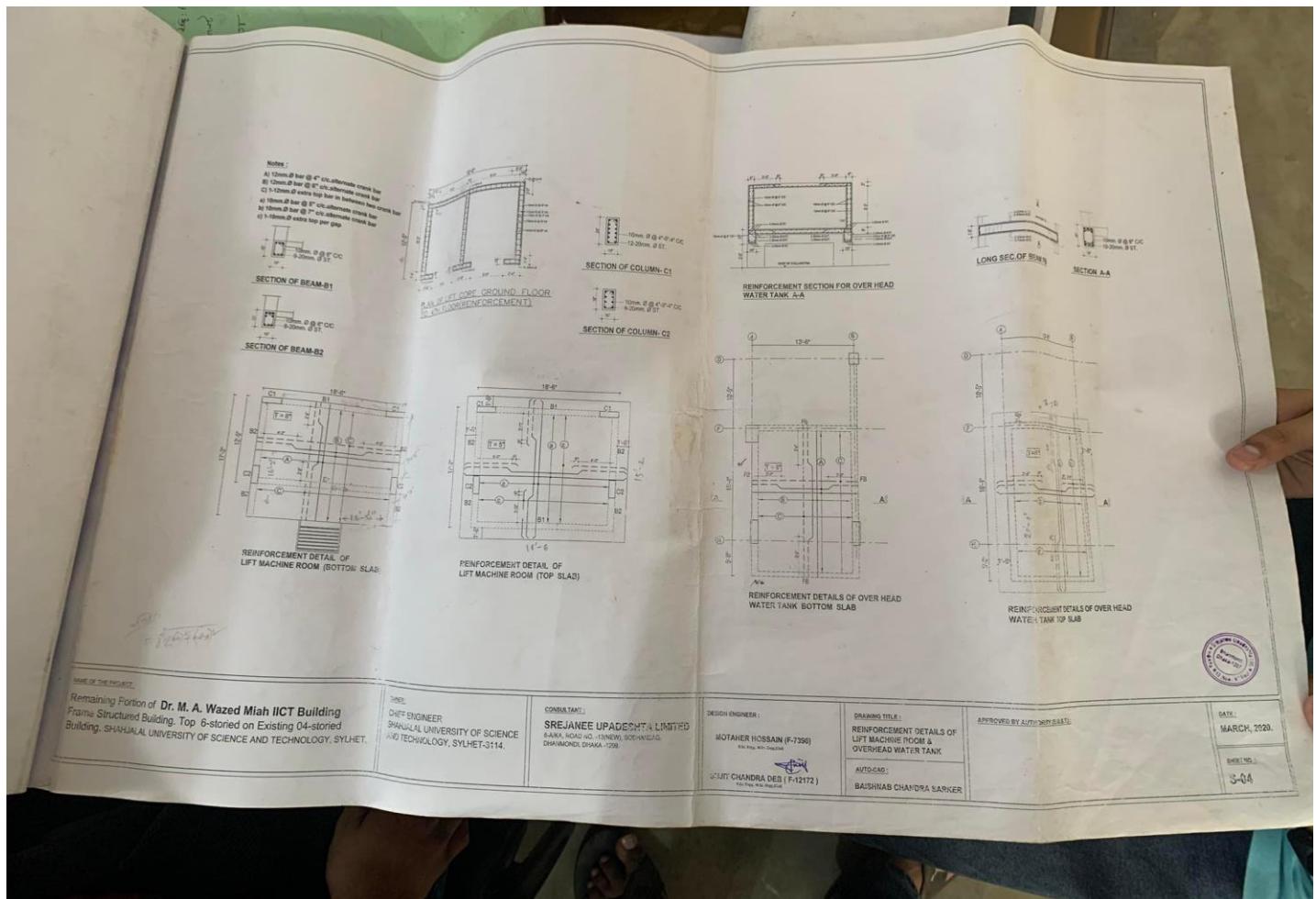


Figure 7: IICT design4

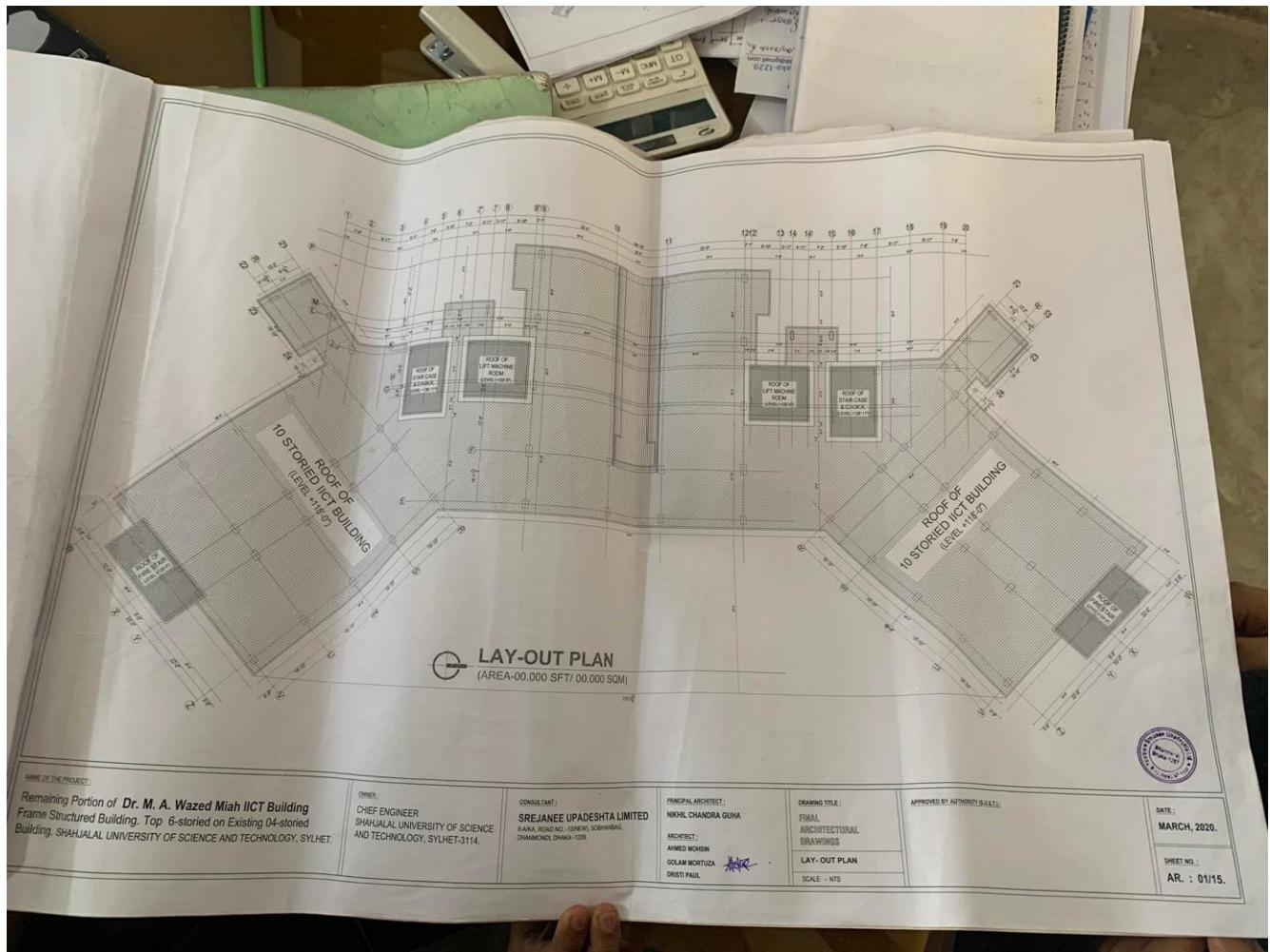


Figure 8:IICT Design 5

3.Account Details And Budgeting Details:

This mainly gives the account and budget of the whole project

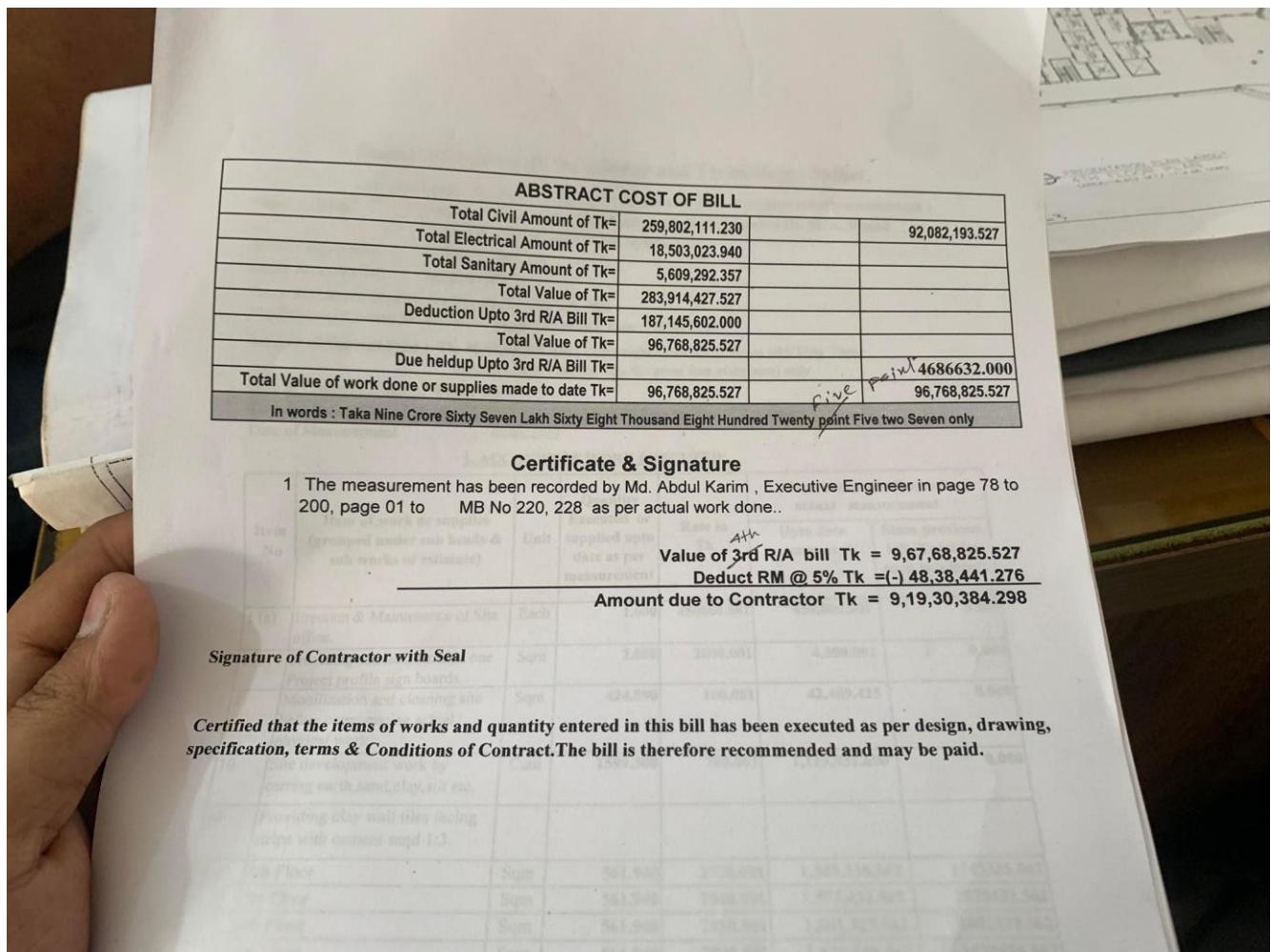


Figure 9 Account-1

Shahjalal University of Science and Technology, Sylhet.						
(for contractors: this from provides only payment for work or supplies actually measurement)						
Name of Work : Construction of Remaining Portion (4th to 9th Floor) of Dr. M. A. Wazed Miah IICT Building in SUST, Sylhet.						
Name of Contractor : SABEL & BBL JV.						
Serial No of the Bill : 4th R/A Bill						
Particulars of Previous bill for this work : 3rd R/A Bill						
Notification of Award No & Date : Engg/055/18/103, Date: - 01/07/2021						
Amount of Contract Price : Tk. 38,67,53,856.480 (Thirty eight Crore Sixty Seven lakh Fifty Three thousand Eight hundred fifty Six point four eight zero) only.						
Date of Commencement of Work : 20/08/2021						
Time for Completion of Work : 24 (Twenty four) months from the date of Agreement.						
Date of Measurement : 05/03/2023						
<u>1. ACCOUNT OF WORK EXECUTED:</u>						
Item No	Item of work or supplies (grouped under sub heads & sub works of estimate)	Unit	Quantity Executed or supplied upto date as per measurement	Rate in Tk	Payment on the Basis of actual measurement	
					Upto date amount	Since previous bill (Total for each sub-head)
1 (a)	Erection & Maintenance of Site office.	Each	1.000	450000.001	450,000.001	0.000
1 (b)	Providing and maintenance one Project profile sign boards.	Sqm	2.000	2000.001	4,000.002	0.000
2	Mobilization and cleaning site before commencing actual physical work.	Sqm	424.890	100.001	42,489.425	0.000
10	Site development work by carrying earth,sand,clay,silt etc.	Cum	1599.900	700.001	1,119,931.600	0.000
16	Providing clay wall tiles facing strips with cement sand 1:3.					
16 e)	4th Floor	Sqm	561.940	2750.001	1,545,335.562	1545335.562
16 f)	5th Floor	Sqm	561.940	2800.001	1,573,432.562	1573432.562
16 g)	6th Floor	Sqm	561.940	2850.001	1,601,529.562	1601529.562
16 h)	7th Floor	Sqm	561.940	2900.001	1,629,626.562	1629626.562
16 i)	8th Floor	Sqm	561.940	2950.001	1,657,723.562	1657723.562
16 j)	9th Floor	Sqm	561.940	3000.001	1,685,820.562	1685820.562
16 k)	10th Floor	Sqm	118.990	3050.001	362,919.619	362919.619

Figure 10:Account-2

4.Tender Info:

It provides the information of how the company gets the contract from the authority

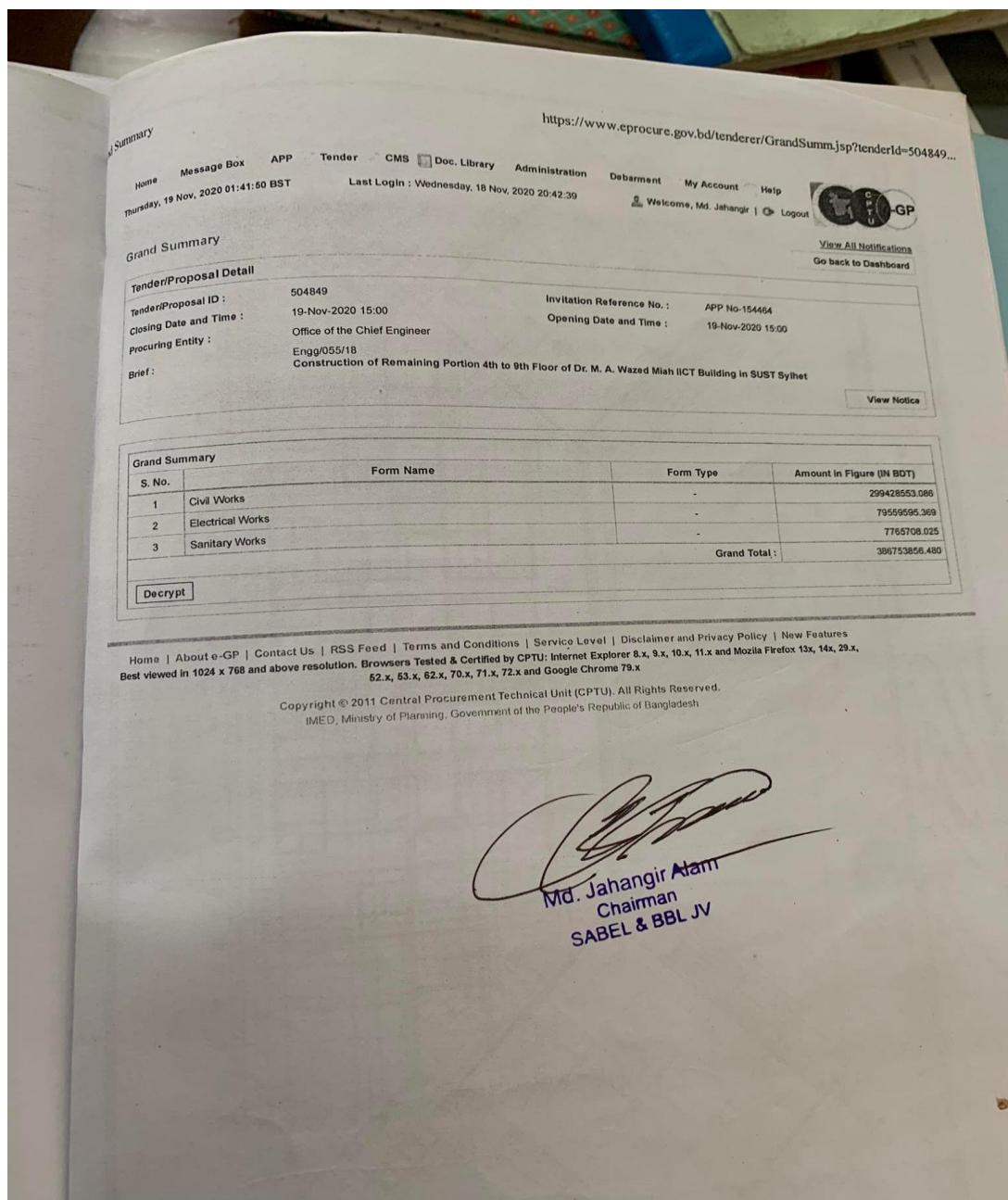
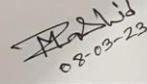


Figure 11:Tender

5. Official ,Staff and Worker Info(Salary):

SABEL & BBL(JV) Staff Salary Sheet									
Name of Site: DR.M.A WAZED MIAH, IICT BUILDING			Month:- February			Year:- 2023			
SI No	Name of Employee	Designation	Total Attendance	Basic Tk	Total Salary Tk	Advance Tk	Net Payable	Sign	Remark
1	Md. Shahinur Zaman	Project Engineer	1- Month	32000.00	32000.00	2800.00	29200.00		
2	Md. Mamunur Rashid	Site Engineer	1- Month	14000.00	14000.00	2800.00	11200.00		
3	Md. Ayub Ali	Site Manager	1- Month	16500.00	16500.00	2500.00	14000.00		
4	Md Enamul Hoque	Supervisor	1- Month	11500.00	11500.00	2800.00	8700.00		
5	Md. Rasel	Electrician	21.0	620.00	13020.00	2100.00	10920.00		
6	Md Lutfor	E Helper	25.0	400.00	10000.00	2600.00	7400.00		
7	Md. Mamun	E Helper	26.0	350.00	9100.00	2800.00	6300.00		
8	Md. Selim	Helper	28.0	430.00	12040.00	4200.00	7840.00		
9	Md. Tamim	Welder	1- Month	18500.00	18500.00	2800.00	15700.00		
10	Md. Nazmul Huda	Guard	1- Month	9300.00	9300.00	2800.00	6500.00		
11	Md. Billal	Welding Helper	28.0	400.00	11200.00	2800.00	8400.00		
12	Mst. Rokeya Begum	Cook	1- Month	5500.00	5500.00	0.00	0.00	Paid	
						Total	126160.00		

Bill Preparer:  08-03-23

Aproved By:  08-03-23

Aproved By:

Figure 12: Officials

Provides Details of the officials working here

SABEL & BBL JV)
Daily Worker Salary Sheet.

Year-2023

Name of Site: DR.M.A WAZED MIAH, IICT BUILDING

SI No	Name of Employee	Designation	Total Attendance Days	Basic Tk	Total Salary	Month- February	Sign	Remark
১	মোঃ শাজাহান মিয়া	ঘোরমান	২৮.০	৮৫০.০০	২৩৮০০.০০			
২	মোঃ আলতাব হোসেন	মেশন	২৮.০	৬৬০.০০	১৯০৮০.০০			
৩	মোঃ মামুন	মেশন	২৮.০	৬৬০.০০	১৯০৮০.০০			
৪	মোঃ আমিনুল ১	মেশন	২৮.০	৬৬০.০০	১৯০৮০.০০			
৫	মোঃ এনামুল	মেশন	২৭.০	৬৬০.০০	১৯০৮০.০০			
৬	মোঃ সাকিব	মেশন	২৬.০	৬৬০.০০	১৯০৮০.০০			
৭	মোঃ মজলুম	মেশন	২৮.০	৬৬০.০০	১৯০৮০.০০			
৮	মোঃ ইমেন	মেশন	১৯.০	৬৬০.০০	১১৯৯০.০০			
৯	মোঃ তাহেরুল	মেশন	১৮.০	৫৯০.০০	১০২৮০.০০			
১০	মোঃ নাসিম	মেশন	২৮.০	৫৯০.০০	১৩৪০০.০০			
১১	মোঃ সাকিব	মেশন	২৭.০	৫৯০.০০	১৩৩৯০.০০			
১২	মোঃ রফিকুল	মেশন	২৩.৫	৫৯০.০০	১৩৩৯২.০০			
১৩	মোঃ পলাশ	মেশন	২৮.০	৫৯০.০০	১৩৪০০.০০			
১৪	মোঃ জিয়ারুল	মেশন	২৮.০	৫৯০.০০	১৩৪০০.০০			
১৫	মোঃ করিম	মেশন	২৮.০	৬৯০.০০	১৮৭৬০.০০			
১৬	মোঃ খায়রুল ১	মেশন	১৭.০	৫৯০.০০	১০৬৫০.০০			
				মোট	২৬১৬৬২.০০			

*Wazid
08-03-23*

08-03-23

Bill Preparer **Approved By** **Approved By**

Figure 13:Staff Salary

6.Project Detail Planning (Costing)

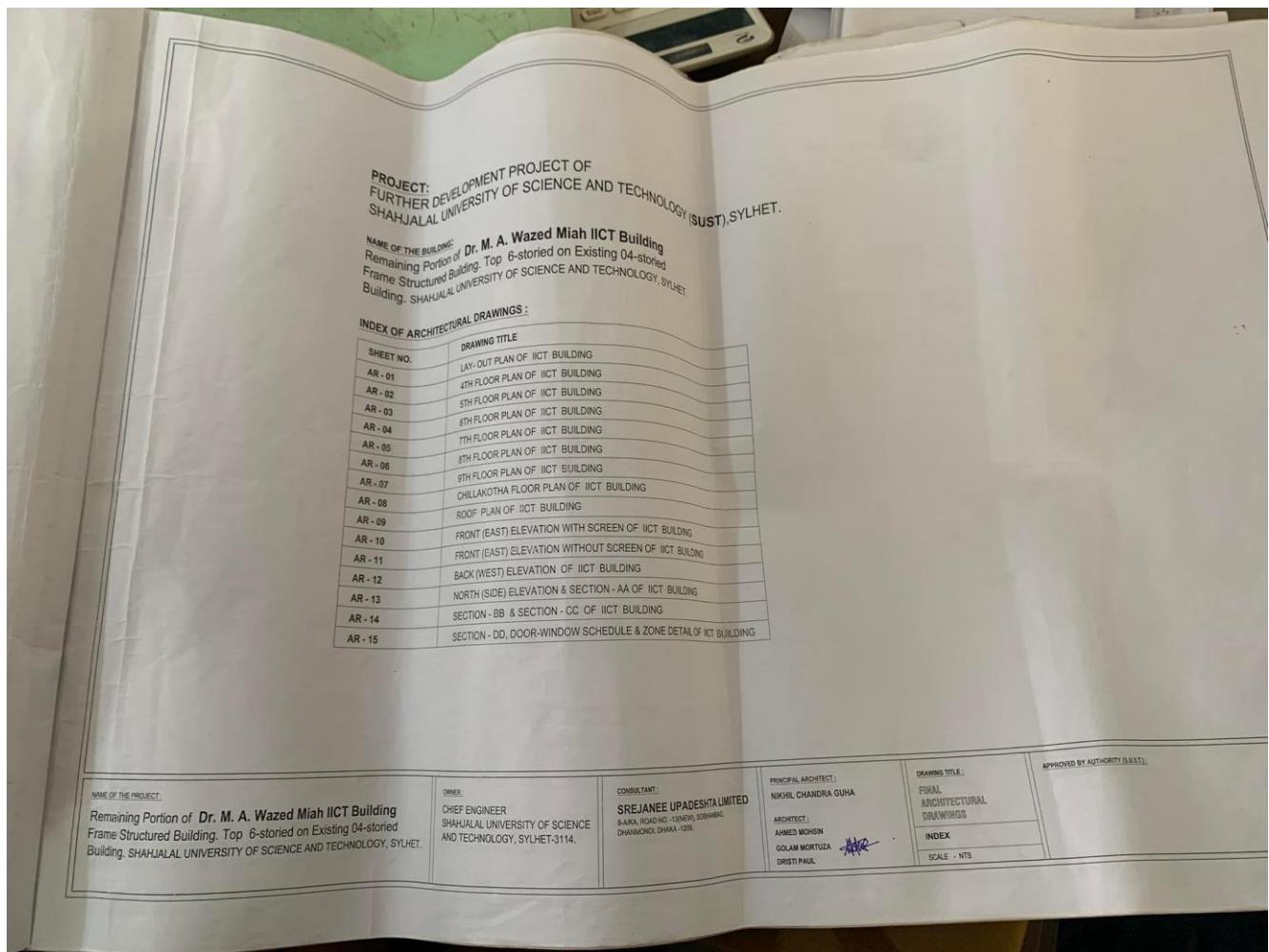
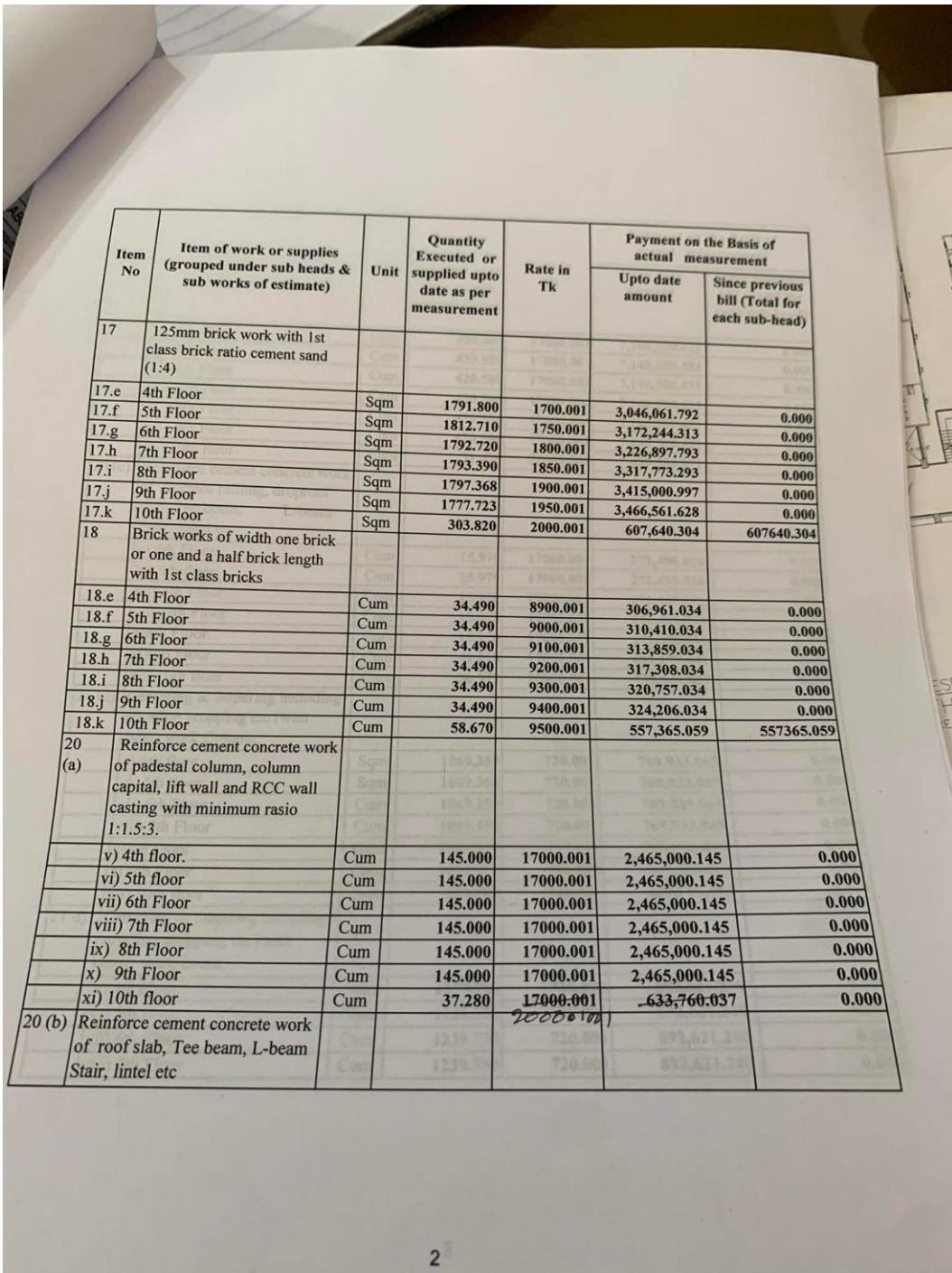


Figure 14:Project Planning1



Item No	Item of work or supplies (grouped under sub heads & sub works of estimate)	Unit	Quantity Executed or supplied upto date as per measurement	Rate in Tk	Payment on the Basis of actual measurement	
					Upto date amount	Since previous bill (Total for each sub-head)
17	125mm brick work with 1st class brick ratio cement sand (1:4)					
17.e	4th Floor	Sqm	1791.800	1700.001	3,046,061.792	0.000
17.f	5th Floor	Sqm	1812.710	1750.001	3,172,244.313	0.000
17.g	6th Floor	Sqm	1792.720	1800.001	3,226,897.793	0.000
17.h	7th Floor	Sqm	1793.390	1850.001	3,317,773.293	0.000
17.i	8th Floor	Sqm	1797.368	1900.001	3,415,000.997	0.000
17.j	9th Floor	Sqm	1777.723	1950.001	3,466,561.628	0.000
17.k	10th Floor	Sqm	303.820	2000.001	607,640.304	607640.304
18	Brick works of width one brick or one and a half brick length with 1st class bricks					
18.e	4th Floor	Cum	34.490	8900.001	306,961.034	0.000
18.f	5th Floor	Cum	34.490	9000.001	310,410.034	0.000
18.g	6th Floor	Cum	34.490	9100.001	313,859.034	0.000
18.h	7th Floor	Cum	34.490	9200.001	317,308.034	0.000
18.i	8th Floor	Cum	34.490	9300.001	320,757.034	0.000
18.j	9th Floor	Cum	34.490	9400.001	324,206.034	0.000
18.k	10th Floor	Cum	58.670	9500.001	557,365.059	557365.059
20	Reinforce cement concrete work of pedestal column, column capital, lift wall and RCC wall casting with minimum rasio 1:1.5:3.					
(a)						
v)	4th floor.	Cum	145.000	17000.001	2,465,000.145	0.000
vi)	5th floor	Cum	145.000	17000.001	2,465,000.145	0.000
vii)	6th Floor	Cum	145.000	17000.001	2,465,000.145	0.000
viii)	7th Floor	Cum	145.000	17000.001	2,465,000.145	0.000
ix)	8th Floor	Cum	145.000	17000.001	2,465,000.145	0.000
x)	9th Floor	Cum	145.000	17000.001	2,465,000.145	0.000
xi)	10th floor	Cum	37.280	17000.001	-633,760.037	0.000
20 (b)	Reinforce cement concrete work of roof slab, Tee beam, L-beam Stair, lintel etc					

Figure 15:Project Planning2

1. Raw Material Inventory And Purchasing Process:

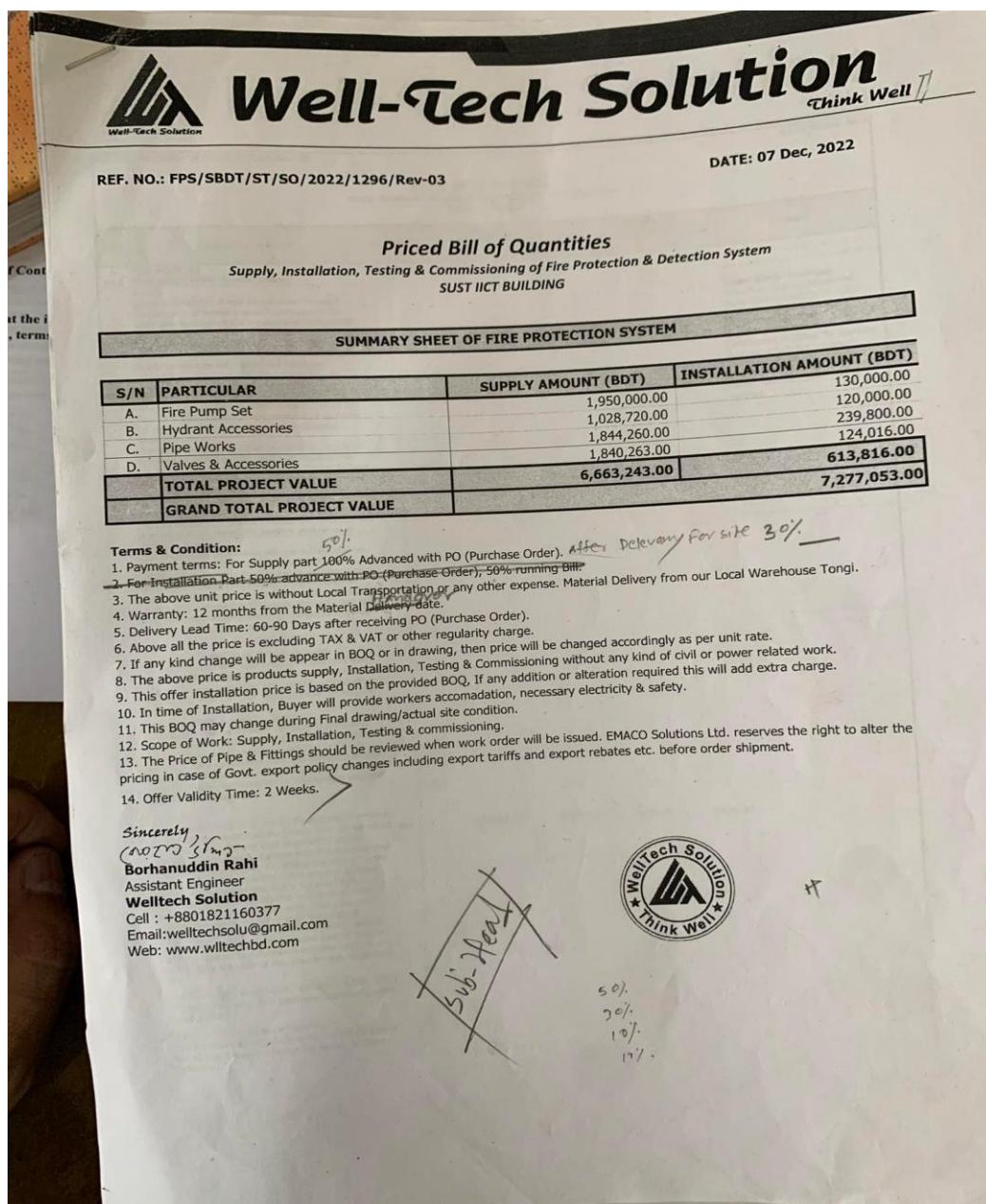


Figure16:Requirement Sending to purchase

Well-Tech Solution
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		Supply Part	Installation Part	
15. PIPE WORKS				
15.1 Black Steel Pipe, 40 Schedule:				
Supply & installation of black steel pipe ASTM A53 ERW, 40 schedule. The pipe work shall be included with welded type tee, elbow, reducer etc. and also hangers / supports etc completed. Pipe work (over ground) shall be painted with red oxide primer. Underground pipes should be layed after wrapping with PVC tape after using approved primer. Pipe wall thickness shall be as per mentioned for different diameters.				MS Pipe, ERW, ASTM A53, SCH40 with Pipe Fittings & Accessories (Such as welded type tee, elbow, reducer etc. and also hangers / supports etc)
Country of origin : AUSTRALIA / CHINA / INDIA / JAPAN / SOUTH KOREA / VIETNAM.				
15.1.a 200 mm (8 inch) dia, Wall Thickness: 7.1mm	Rft 10	2,860.00	28,600.00	300.00 3,000.00
15.1.b 150 mm (6 inch) dia, Wall Thickness: 7.1mm	Rft 550	2,270.00	1,248,500.00	260.00 143,000.00
15.1.c 100 mm (4 inch) dia, Wall Thickness: 6.0mm	Rft 320	1,455.00	465,600.00	220.00 70,400.00
15.1.e 65 mm (2½ inch) dia, Wall Thickness: 5.2mm	Rft 80	852.00	68,160.00	165.00 13,200.00
15.1.f 50 mm (2 inch) dia, Wall Thickness: 3.9mm	Rft 40	536.00	21,440.00	125.00 5,000.00
15.1.g 25 mm (1inch) dia, Wall Thickness: 3.4mm	Rft 40	205.00	8,200.00	90.00 3,600.00
15.1.h 12 mm (1/2 inch) dia, Wall Thickness: 2.8mm	Rft 20	188.00	3,760.00	80.00 1,600.00
C. Sub-Total Amount In BDT.		1,844,260.00		239,800.00
D. VALVES & ACCESSORIES				
16.0 VALVES & FITTINGS :				
Supply & installation of valves & fittings complies with ANSI, flange / groove type, temperature range: 00C-800C; working pressure: 200 PSI minimum, valve body as per ASTM A536, 65-45-12 standard, UL / FM approved.				
Country of origin : MALAYSIA / SOUTH KOREA / TAIWAN / USA / European countries or their licensed manufacturing units located globally.				
GATE VALVES:				
16.b) 150 mm (6 inch) dia	Nos. 4	32,893.00	131,572.00	1,800.00 7,200.00
16.c) 100 mm (4 inch) dia	Nos. 1	25,000.00	25,000.00	1,500.00 1,500.00
16.d) 65 mm (2½ inch) dia	Nos. 2	22,000.00	44,000.00	1,500.00 3,000.00
16.e) 50 mm (2 inch) dia	Nos. 1	20,625.00	20,625.00	1,200.00 1,200.00
NON-RETURN / CHECK VALVES:				
16.f) 150 mm (6 inch) dia	Nos. 2	35,562.00	71,124.00	1,800.00 3,600.00
16.g) 65 mm (2½ inch) dia	Nos. 1	16,475.00	16,475.00	1,000.00 1,000.00
Y - STRAINERS :				
16.h) 150 mm (6 inch) dia	Nos. 2	26,250.00	52,500.00	1,800.00 3,600.00
16.i) 65 mm (2½ inch) dia	Nos. 1	14,843.00	14,843.00	1,200.00 1,200.00
FLEXIBLE JOINT				
16.j) 150 mm (6 inch) dia	Nos. 4	19,081.00	76,324.00	1,800.00 7,200.00
16.k) 65 mm (2½ inch) dia	Nos. 2	8,400.00	16,800.00	1,000.00 2,000.00
BALL VALVES. Class: PN20				
65 mm (2½ inch) dia	Nos. 20	7,245.00	144,900.00	246.00 4,920.00
65 mm (2½ inch) dia	Nos. 5	1,880.00	9,400.00	248.00 1,240.00
25 mm (1 inch) dia	Nos. 5	1,200.00	6,000.00	250.00 1,250.00
12 mm (½ inch) dia	Nos. 2	3,250.00	6,500.00	500.00 1,000.00
17.0 PRESSURE GAUGE:				
Supply and installation of 3.5" - 4 dia type pressure gauges including supply of all accessories and consumable. The range shall be 0-250 psi. UL/ FM approved.				Pressure Gauge without accessories
Country of origin : MALAYSIA / SOUTH KOREA / TAIWAN / USA / European countries or their licensed manufacturing units located globally.	Nos. 3	17,750.00	53,250.00	850.00 2,550.00
18.0 PRESSURE SWITCH:				
Supply, installation and testing of pressure switch complete with sensing element, enclosure material, 15 mm NPT pressure connection, direct mounting electrical connection, other material etc. accepted / approved by the Engineer.				Pressure Switch without accessories
Country of origin : USA / European countries / SOUTH KOREA / MALAYSIA / TAIWAN or their licensed manufacturing units located globally.				Brand: DANFOSS (USA) / Equivalent

Figure 17:Requirement Sending2

Well-Tech Solution *Think Well*



Requirement Document

1.0 FIRE WATER PUMP (Motor Driven)
 Fire Type - II up to 10 storied building
 Supply & installation of electrically driven centrifugal type and suction, vertical discharge Fire Water Pump
 Manufacturer, vertical according to globally accepted international standard shall be complete with sild mounted, coupled pump motor, safety cover etc. Motor shall be 420V / 3 phase / 50 Hz / 2900 rpm / Class F insulation. Encloser IPSS. Motor capacity shall be as per NFPA 20, and performance curve (from manufacturer) shall be provided to verify pump performance. The pump shall have a capacity to handle 500 US GPM of water against a head of 263 feet (80 Meter). [30 kw minimum but need to conform to NFPA 20]
 Country of origin : AUSTRALIA / CANADA / JAPAN / USA / European countries or their licensed manufacturing units located globally.

3.0 JOCKEY PUMP (Pressure Maintenance Pump)
 JP Type - I (up to 5 storied building)
 Supply, installation of multistage jockey pump manufactured according to globally accepted international standard or fire hydrant system to keep a certain pressure in water distribution system. Capacity of the pump shall be 20 US GPM against a head of 263-394 feet (80-120 meter) of water. Pump shall be complete with motor suitable to meet performance curve of the pump. The motor shall be 420V / 3 phase/ 50 Hz / 2900 rpm. [3 kw minimum but need to conform to NFPA 20]
 Country of origin : AUSTRALIA / CANADA / JAPAN / USA / European countries or their licensed manufacturing units located globally.

4.0 FIRE BRIGADE CONNECTION:
 Fire Brigade Connection: 4 - Way
 Supply and installation of 4-way fire brigade connection complete in all respect with all accessories. The unit shall have two Inlet connections of 2½" (63mm) male instantaneous with non-return valve and having 6" dia (150mm) flanged type outlet directly connected with stand pipe. It will have also one 25mm dia drain valve for drainage of water, rubber blank cap and chain for protection. Outer 150mm dia shall be as per ANSI-B-16B-16.58. Shall be suitable to withstand pressure of 20kg/cm². Shall be manufactured according to BS standard & suitable for using with fire service & civil defence department of Bangladesh.
 Country of origin : AUSTRALIA / CANADA / JAPAN / USA / European countries or their licensed manufacturing units located globally.

5.a) PUMP CONTROL PANELS FOR MOTOR DRIVEN FIRE & JOCKEY PUMPS :
 Supply, installation of fire & jockey pump control panel complete with MCCB / MCB / magnetic contactor / on-off push switch / indication lamp for phase indication, run, trip mode / amperes meter / volt meter / overload selector switch / phase failure protection device / dry operation protection device / volt guard / connector block / bus-bar / CT of rated capacity / ventilation fan / buzzer / cable lugs / and all other accessories. The panel shall be well dressed in side for safety purpose and for looking good. The panel shall be suitable for 3-phase 400 ± 5% volt 50Hz power supply. The panel shall with auto-manual mode to operate the pumps controlled by pressure sensors. For fire pump the panel shall have option to start the pump automatically by stop shall be manual. For jockey pump the panel shall be suitable to start-stop the pump automatically controlled by pressure sensor. Encloser of the panel shall be made with 16 SWG sheet steel and shall be painted with powder coating of red color

5.a) Controller for FP Type - 1
 Set 1 50,000.00 50,000.00 5,000.00 5,000.00

5.b) Controller for JP Type - 1
 Set 1 30,000.00 30,000.00 3,000.00 3,000.00

6.0 Fire Hydrant Unit (1½" dia):
 "Each 1½" dia fire hydrant unit shall be complete with the following components and accessories,
 "Hose angle valve (landing valve) : 1½" dia

Supply Part **Installation Part**

Motor Driven Fire Pump				
Pump Brand: Ebara (Japan)				
Pump Type: End Suction				
Pump Model: GS 65-250				
Pump Capacity: 500 USGPM@ 100m Head				
Rating: 2900 rpm				
Certification: Non-Listed (Standard)				
Motor Brand : GM (Malaysia)				
Motor Model: G2-25-204-2				
Rating: 380V/ 50Hz/ 2900rpm/ 55KW				
Certification: Non-Listed (Standard)				
Controller Brand : EMACO (USA)				
Controller Model : ENPC-EDJ073				
Certification: Non-Listed (Standard)				
Jockey Pump				
Pump Brand: EMACO (USA)				
Pump Model: 2SGDA-4-11*10				
Pump Capacity: 20 USGPM@ 110m Head				
Motor Power: 4 KW, 2900 rpm				
Controller Brand : EMACO (USA)				
Controller Model : ENPC-EDJ060				
Certification: Non-Listed (Standard)				
4 Way Fire Brigade Connection with 6" dia (150mm) Non Return Valve without accessories Brand: EMACO (USA)/ Equivalent				
Fire Pump (Engine Driven, Motor driven & Jockey Pump) Control panel price included pump price. Other accessories are not included.				
Set 1 4,000.00 80,000.00 850.00 17,000.00				
Nos. 20				

Figure 18: Requirement Sending 3

S A B R L & B B L (J.D)
By/ Hand Ataturk Avenue, Bograhi Dhaka-1213
Procurement Request

Requisition Date _____
Requirement Date _____

Name _____
Designation _____
Purpose _____

Loca- _____
SL No. _____
Month _____
Mobile No. _____

Department _____

SL No	Item	Stock Balance of material	Requir Date	Rate	Remarks

Figure 19:Requirement Form

8.Raw Material Receiving Process And Bill payment:

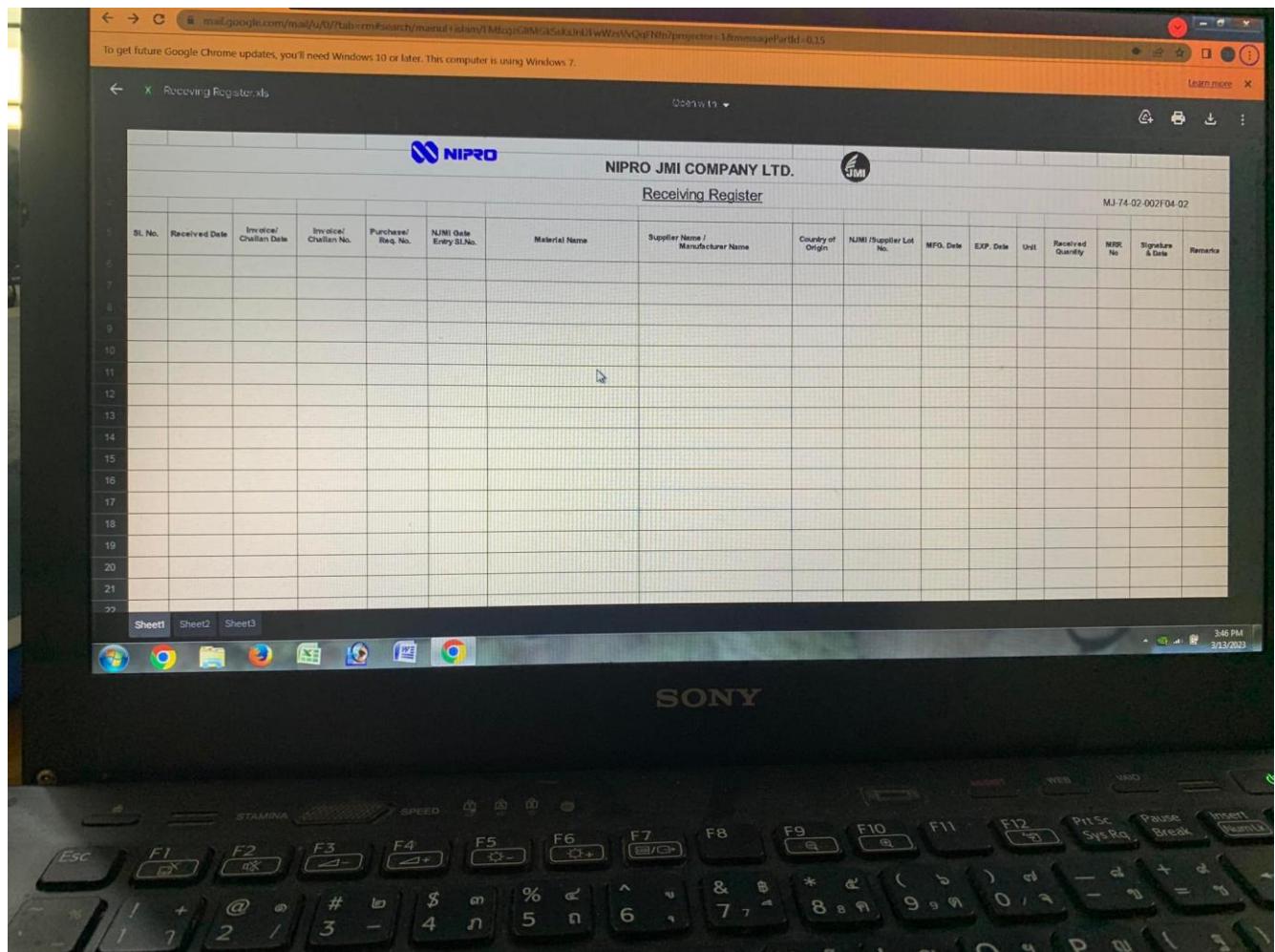


Figure 20:Raw Material Recieving Form

Sanitary Works :-						
Item No	Item of work or supplies (grouped under sub heads & sub works of estimate)	Unit	Quantity Executed or supplied upto date as per	Rate in Tk	Payment on the Basis of actual measurement	
					Upto date amount	Since previous bill (Total for each sub-head)
1	SFF of european type glazed porcelain combi closet.	Each	44.000	14000.001	616000.044	616000.044
2	SFF Bangladesh pattern, long pan with foot-rest	Each	38.000	3000.001	114000.038	114000.038
3	SFF of white glazed european type wash basin with padastal.	Each	36.000	2500.001	90000.036	90000.036
4	SFF European type glazed porcelain low down	Each	38.000	2000.001	76000.038	76000.038
5	SFF of white glazed european type wash basin with padastal.	Each	66.000	2500.001	165000.066	165000.066
6	SFF of glazed vitreous standing bowl urinal	Each	12.000	2200.001	26400.012	26400.012
7	SFF of glazed vitreous flat urinal	Each	9.000	3500.001	31500.009	31500.009
17	Construction of masonry inspection pits with 250 mm thick brick.	Each	4.000	6000.001	24000.004	24000.004
18	Construction of placing of RCC inspection pit cover.	Each	22.000	3000.001	66000.022	66000.022
19 a)	SFF and laying uPVC pipe for underground (a) 150 mm dia	Each	150.000	700.001	105000.150	105000.150
b	200 mm dia uPVC pipe	Each	100.000	1000.001	100000.100	100000.100
21	Supplying different inside dia best quality 100 mm dia uPVC P or S Trap	Each	214.000	400.001	85600.214	85600.214
26.a)	SFF best quality 19 mm dia brass G.I gate valve	Each	72.000	500.001	36000.072	36000.072
b	25 mm brass Gate valve	Each	15.000	650.001	9750.015	9750.015
c	32 mm brass Gate valve	Each	15.001	750.001	11250.765	11250.765
d	37 mm brass Gate valve	Each	20.000	850.001	17000.020	17000.020
e	50 mm brass Gate valve	Each	30.000	950.001	28500.030	28500.030
f	75 mm brass Gate valve	Each	2.000	1200.001	2400.002	2400.002
27.a)	Supplying different inside dia best quality uPVC pressure pipe 50mm dia	Rm	250.000	600.001	150000.250	150000.250
b	75 mm dia G.I pipe	Rm	4.000	900.001	3600.004	3600.004
28.a)	Supplying different inside dia best quality uPVC pressure pipe 12 mm dia	Rm	97.560	200.001	19512.098	19512.098

Figure 21 : Raw Material Bill(Sanitary)

Electrical Works :-						
Item No	Item of work or supplies (grouped under sub heads & sub works of estimate)	Unit	Quantity Executed or supplied upto date as per measurement	Rate in Tk	Payment on the Basis of actual measurement	
					Upto date amount	Since previous bill (Total for each sub-head)
1.a	Concealed conduit point wiring (BYM)	Point	1200.000	1000.001	1200001.200	1200001.200
b	Fan point	Point	465.000	1000.001	465000.465	465000.465
2.a	Concealed wiring (BYM)	Rm	11000.000	150.001	1650011.000	1650011.000
c	1C-2x6.0 sqmm cable with 6 sqmm (BYM) Cable with 6 sqmm	Rm	5000.000	200.001	1000005.000	1000005.000
d	1C-2x10 sqmm cable with 10 sqmm (BYA) 10 sqmm (BYA)	Rm	500.000	260.001	130000.500	130000.500
e	1C-4x6 sqmm (NYY / 2XY) with 6 sqmm (Bya) ECC	Rm	100.000	500.001	50000.100	50000.100
f	1C-4x10 sqmm (NYY / 2XY) with 10 sqmm (BYA) ECC	Rm	300.000	550.001	165000.300	165000.300
g	1C-4x16 sqmm (NYY / 2XY) with 16 sqmm (BYA) ECC	Rm	200.000	750.001	150000.200	150000.200
5.a i)	One gang switch	Each	80.000	300.001	24000.080	24000.080
5.a ii)	Two gang switch	Each	110.000	400.001	44000.110	44000.110
5.a	Three gang switch	Each	160.000	500.001	80000.160	80000.160
5.a	Four gang switch	Each	115.000	550.001	63250.115	63250.115
5.a v)	One gang switch and one 5 amps. 2 pin socket combined	Each	200.000	350.001	70000.200	70000.200
5.b	Gang type Fan Regulator	Each	465.000	600.001	279000.465	279000.465
7	Ceiling Fan (AC capacitor type)	Each	465.000	3000.001	1395000.465	1395000.465
8	FAN CLAMP. Providing and fixing box type fan clamp	Each	465.000	150.001	69750.465	69750.465
9	EXHAUST FAN	Each	60.000	1600.001	96000.060	96000.060
10	SPOT LIGHT FITTINGS(LED): Providing and fitting 18 watt.	Each	570.000	800.001	456000.570	456000.570
12	Supplying & fixing of LED tube/panel light (4'-0") 36 watt	Each	600.000	200.001	120000.600	120000.600
15	CIRCUIT BREAKER (SPMCB)10 Amps	Each	439.000	400.001	175600.439	175600.439
16	TPMCB, Providing and fixing on a prepared board 500 volt	Each	84.000	3000.001	252000.084	252000.084

Figure 22 : Bill (Electric)

Figure 23: Raw Material Receiving Detail

Figure 24: Raw Material Receiving Detail (Sand)

9. Raw Material Inventory and Stock Management

Figure 25 : Raw Material Stock (MS ROD)

10. SubContract Management

SABEL & BBL(JV)			
Sub Contractor-Bill			
Name Of Site: DR.M.A WAZED MIAH, IICT BUILDING.		Total	
Month:- February		Year:- 2023	
Sl No	Name Of Sub Contractor	Total Worker	Advance Tk
1	Md. Mohshin Patowary (Rod)	314.00	-
2	Md. Kazi Juyel (Welder)	35.00	27000.00
3	Md. Hanif (Sanitary)	87.00	27060.00
4	Md. Tahel (Tiles)	22.00	8800.00
5	Md. Bablu (Tiles)	10.00	4000.00

Masjid
08-03-23

Bill Preparer

Aproved By:

Figure 16: List Of SubContracts and Details

11. Employee and Staff Attendance Management:

Figure 17: Attendance sheet of the Workers

12. Other Documents:

A) Site Visitor Data

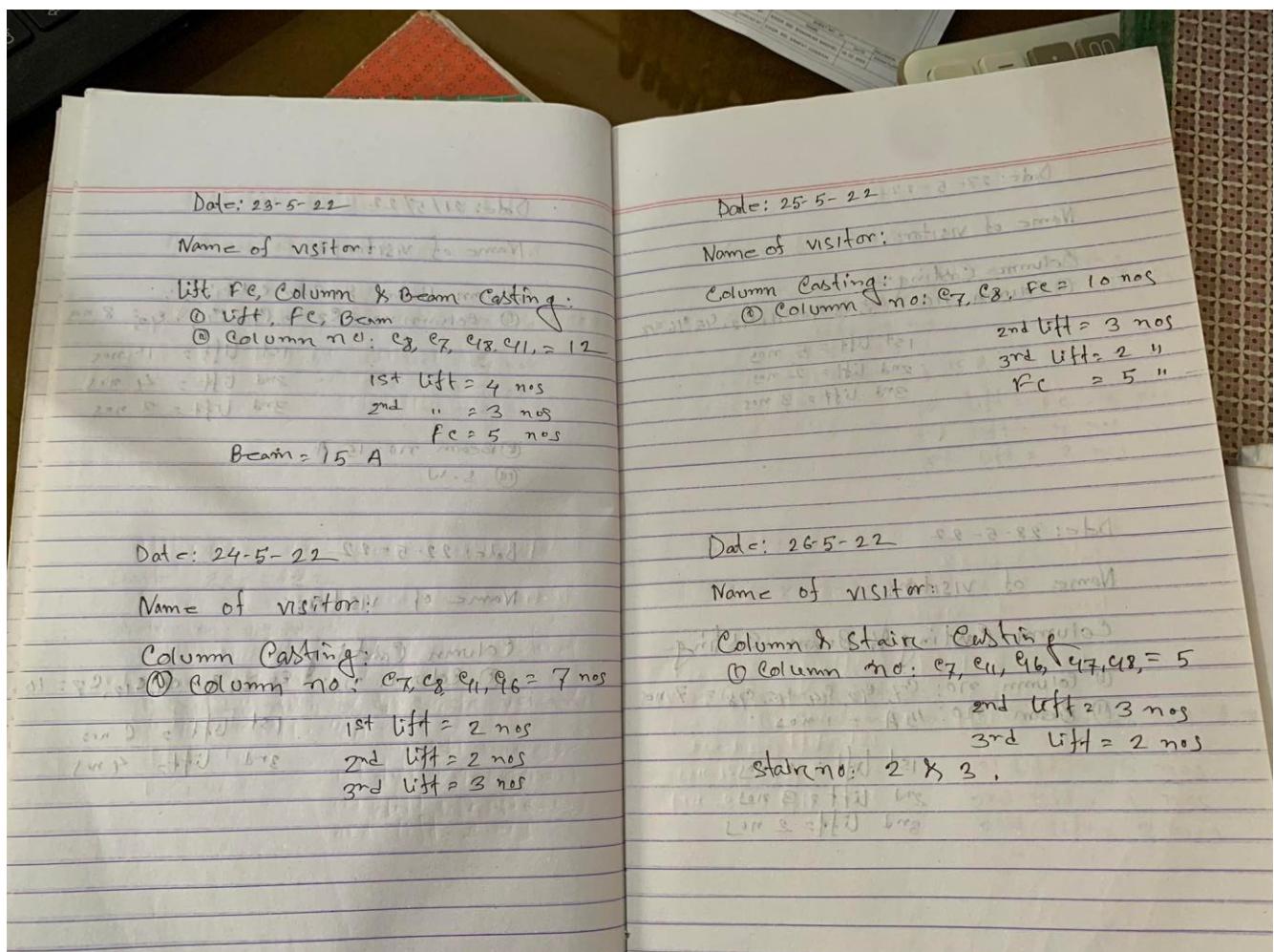


Figure 18: Site Visitors

End of Data