THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

CONTRACT DOCUMENT

SHINYANGA REGIONAL REFERRAL HOSPITAL

CONTRACT NUMBER: ME/SRRH/007/2021/2022/W/07

FOR

PROVISION OF LABOUR FOR CONSTRUCTION OF THREE BEDROOMS STAFF HOUSE URBAN TYPE AT SHINYANGA REGIONAL REFERRAL HOSPITAL

EMPLOYER :
Medical Officer Incharge,
Shinyanga Regional Referral Hospital,
P.O.Box 17,
SHINYANGA.

CONTRACTOR:
Ngasamo Construction Company,
P.O.Box 453,
SHINYANGA.

MARCH 2022

Form of Agreement

This AGREEMENT (hereinafter called the "Contract") is made the 23rd day of the month of March,2022, between, on the one hand, Medical Officer In charge Shinyanga Regional Referral Hospital P. O. Box 17 SHINYANGA (hereinafter called the "Employer") and, on the other hand, Ngasamo Construction Company Ltd P. O. Box 453 SHINYANGA (hereinafter called the "Service Provider").

WHEREAS

(a) the Employer has requested the Service Provider to provide Labour for Carrying out the Provision of labour Costs for Construction of three bedrooms staff House Urban type at Shinyanga Regional Referral Hospital at Shinyanga Regional Referral Hospital as defined in the General Conditions of Contract attached to this Contract (hereinafter called the "Services");

(b) the Service Provider, having represented to the Employer that they have the required professional skills, and personnel and technical resources, have agreed to provide the Services on the terms and conditions set forth in this Contract at a contract price of Tshs **17,630,000.00** (Seventy million six hundred and thirty thousand only VAT Exclusive (hereinafter called the "Contract Price'').

(c) the Employer has set aside funds towards the cost of the Services and intends to apply a portion of the proceeds of these funds to eligible payments under this Contract, No ME/SRR/007/2021/2022/NC/07 for Provision of labour Costs for Construction of three bedrooms staff House Urban type at Shinyanga Regional Referral Hospital at Shinyanga Regional Referral Hospital it being understood that such payments will be subject, in all respects, to the terms and conditions of the Contract providing for the funds and that no party other than the Employer shall derive any rights from the Contract providing for the funds or have any claim to the funds proceeds;

NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:

a) Contract Agreement

b) The General Conditions of Contract;

c) The Special Conditions of Contract;

d) The Service Provider's Tender

e) The Priced Activity Schedule

f) The Specifications (Statement of Requirements)

g) Service provider Legal Documents (Certificate of registration, Business license, Tax clearance, TIN/VAT Certificate CRB Registration and Power of attorney.

2. This contract will be executed by using Force Account procedures whereby the services provider will be paid for labour only and the employer will provide all the building materials to the service provider.

h) The Appendices:

Appendix A: Drawing

Appendix A: Drawing

Appendix B: Key Personnel

3. The mutual rights and obligations of the Employer and the Service Provider shall be as set forth in the Contract, in particular:

i) The Service Provider shall carry out the Services in accordance with the provisions of the Contract; and

j) the Employer shall make payments to the Service Provider in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

SIGNED by the said the Medical Officer In charge Shinyanga Regional Referral Hospital P. O. Box 17 SHINYANGA For and on behalf of *Employer:*

Name --- Dr. Richard Mhangwa

Signature ---

Occupation --- Agnote

Date --- 24/03/2022

MEDICAL OFFICER INCHARGE SHINYANGA KRH BOX 17 MAR 2022

In the Presence of:

Name: --- Beatrice Cheyo

Signature ---

Designation --- HRO

SIGNED by the said Managing Director, Ngasamo Construction Company Ltd, P.O. Box 453 SHINYANGA for and on behalf of *the Service Provider:*

NGASAMO CONSTRUCTION CO.
P.O. BOX 453
TEL 028-2762993
SHINYANGA

Name --- BENJAMIN R GILDO

Signature ---

Occupation --- M.D

Date --- 24/3/2022

In the Presence of:

Name --- Abdulazizi John

Signature ---

Designation --- Witnes

SHINYANGA REGIONAL REFERRAL HOSPITAL

Telegrams "AFYA" Shinyanga
Phone No: 028 -2763283
Fax No: 028 - 2763283
Email: nshinyangarrh@afya.go.tz

Regional Referral Hospital
P.O.BOX 17,
Shinyanga .
22.03.2022.

LETTER OF ACCEPTANCE:

TO: M/S NGASAMO CONSTRUCTION CO. LTD,

P.O.BOX 453,

SHINYANGA.

RE: PROVISION OF LABOUR COSTS FOR CONSTRUCTION OF THREE BEDROOMS STAFF HOUSE URBAN TYPE AT SHINYANGA REGIONAL REFERRAL HOSPITAL:

This is to notify you that your quotation dated March, 2022 for the Provision of labour costs for Construction of three Bedrooms staff house urban type at Shinyanga Regional Referral Hospital for the contract price of Tshs **17,630,000** (Seventy million six hundred and thirty thousand only) as corrected and modified in accordance with the instruction to Bidder is hereby accepted by our agency.

You are required to sign the contract Agreement and commence the services as you will be instructed from the date of signing the contract.

.....

Dr.Richard Mhangwa

Acting:Medical Officer Incharge

Shinyanga Regional Referral Hospital

MEDICAL OFFICER INCHARGE
SHINYANGA REGIONAL REFERRAL
HOSPITAL

GHARAMA ZA UFUNDI WA NYUMBA YA MTUMISHI

Na	MAELEZO YA KAZI	Tsh
B	Kuchimba mashimo, kusimika mirunda, kumwaga zege,kugongelea mbao pamoja na bati pamoja na kuezeka kwenye store ya kuhifadhia material site wastani wa (5x4)m	20,000/=
C	Kuweka screed floor kwenye store ya wastani wa 5x4m	15,000/=
	Kuweka screed floor kwenye store ya wastani wa 5x4m	20,000/=
E	Kufunga milango ya bati kwenye store.	5,000/=
		60,000/=

NUASAMO CONSTRUCTION CO
P.O. BOX 455
TEL 028-2762593
SHINYANGA

GHARAMA ZA UFUNDI UJENZI NYUMBA YA MTUMISHI-HOSPITALI YA RUFAA YASHINYANGA RRH		
Na	AINA YA KAZI	BEI YA UFUNDI
1	**Msingi wa Jengo (sub structure)**	
i	Kusafisha eneo kwa kuondoa miti,visiki na kutoa uchafu eneo la ujenzi (184m^2)	100,000/=
ii	Kuchimba na kuondoa udongo wa mweusi (rutuba) wastani wa 150mm (184m2)	700,000/=
i	Kuseti jengo	500,000/=
ii	Uchimbaji wa msingi (isizidi 1.5m)-71m3	1,200,000/=
iii	Kuvunja Mawe kama yapo	350,000/=
iv	Kufukia na kushindilia msingi -33m3	600,000/=
	Kuondoa kifusi kilichozidi na kisichohitajika eneo la ujenzi-39m3	500,000/=
B	**Usukaji wa nondo katika**	
i	Nguzo mlalo za kwenye msingi (Ground beam) kulingana na mchoro.	450,000/=
C	**Kufunga na kuondoa mbao**	
i	Pembezoni mwa jamvi (66m)	200,000/=
ii	Pembezoni mwa nguzo mlalo za msingi pamoja-78m2	250,000/=
D	**Kumwaga zege**	
i	Chini kwenye kitako cha msingi (strip foundation)-17m3	450,000/=
iv	Katika nguzo mlalo za kwenye msingi (ground beam)-8m3	500,000/=
v	Kwenye jamvi (oversite concrete)-150m2	800,000/=
vi	Katika njia panda (Ramp)-1m2	100,000/=
vi	Umwagiliaji maji	200,000/=
E	**Kuta za msingi**	
i	Ujenzi wa kuta za msingi (tofali za kulala)-80m2	730,000/=

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P.O. BOX 453
TEL 028-2762993
SHINYANGA

F	**Upangaji na ushindiliaji**	
i	Upangaji wa mawe (150m^2) na utandazaji wa DPM (500gauge)-150m2	550,000/=
ii	Uwekaji wa kifusi na kushindilia katika misingi na kwenye jamvi kutumia Kifusi kilichokubalika (150mm) -150m2	250,000/=
iii	Uwekaji wa sumu ya mchwa kwenye jamvi(150m2) na pembezoni mwa kuta za msingi (66m)	150,000/=
	JUMLA KATIKA MSINGI WA JENGO (SUB STRUCTURE)	7,700,000/=

2	**Kunyanyua jengo (super structure)**	
A	**Kusuka nondo katika**	
i	Kwenye nguzo mlalo za kubeba paa (lenta)	400,000/=
ii	Katika Ramp na ngazi (steps)	100,000/=
B	**Kufunga na kuondoa mbao**	
i	Pembezoni mwa nguzo mlalo za kupokea paa (Roof beam)-80m	200,000/=
C	**Kumwaga zege**	
i	Katika Nguzo mlalo za kupokea paa (roof beams)-7m3	350,000/=
D	**Ujenzi wa kuta**	
i	Uwekaji wa DPC-130m	50,000/=
ii	Katika kuta za nje-198m^2	700,000/=
iii	Katika kuta za ndani-158m^2	1,200,000/=
iv	Kuweka coping-35m	550,000/=
	JUMLA YA KUNYANYUA JENGO (SUPERSTRUCTURE)	3,550,000/=

3	**Kuezeka (Roof structure)**	
i	Kutengeneza kenchi za mbao kwa kufuata mchoro	800,000/=

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TEL 028-2762993
SHINYANGA

ii	Kupandisha kenchi za mbao kwenye jengo	200,000/-
iii	Kuezeka-210m²	400,000/=
iv	Kufunga matega maji (gutters & downpipes) kuzunguka jengo na kulingana na mchoro.	100,000/=
	JUMLA NDOGO KUEZEKA	1,500,000/=
4	**MILANGO**	
i	Kufitisha fremu za milango kulingana na mchoro -147m	100,000/=
ii	Kufunga milango (shutters) pamoja na Bawaba na Vitasa vyake vyote-21Nos	200,000/=
	JUMLA NDOGO MILANGO	300,000/=
5	**MADIRSHA**	
i	Kufitisha madirisha ya chuma (grill)-22 kulingana na vipimo	150,000/=
	JUMLA NDOGO MADIRISHA	150,000/=
6	**UMALIZIAJI (Finishing)**	
A	**Upigaji wa lipu pamoja kutengeneza koplo**	
i	Nje ya jengo-158m²	400,000/=
ii	Ndani ya jengo-364m²	450,000/=
iii	Kwenye nguzo mlalo (lenta)-80m²	
B	**Vigae kwenye Sakafu**	
i	Uwekaji wa sakafu ya kupokea vigae-156m²	50,000/=
ii	Uwekaji wa vigae pamoja na grout katika sakafu 130m² na 26m² kwenye vyoo pamoja na Aluminium strips (50m).	350,000/=
iii	Uwekaji wa vigae vya skirting-220m	250,000/=
iv	Uwekaji wa vigae kwenye ngazi	150,000/=
v	Uwekaji wa makabati na marble jikoni-10m²	250,000/=
B	**Vigae kwenye Ukuta**	
	Uwekaji wa vigae pamoja grout katika kuta za vyooni na mabafuni (wall tiles)-110m²	300,000/=
C	**DARI**	
i	Ufungaji wa mbao za dari (brandering)-533m pamoja na gypsum bords -156m2	250,000/=

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P.O. BOX 453
TEL: 2762893
SHINYANGA

ii	Ufungaji mikanda-180m	100,000/=
iii	Uwekaji wa mlango wa dari-1(mmoja) na dari la PVC la nje - 53m²	50,000/=
	JUMLA NDOGO YA UMALIZIAJI JENGO (FINISHING)	2,600,000/=

7	**Rangi na Mapambo (painting & Decorations)**	
A	**Kupaka rangi ,mikono mitatu pamoja na Skimming**	
	Nje ya jengo-158m²	150,000/=
	Ndani ya jengo-444m²	200,000/=
	Kwenye nguzo mlalo (lenta)-81m²	20,000/=
	Fremu za milango-130m	50,000/=
	Cill za madirisha-26m	—
	Kwenye dari-156m²	200,000/=
B	**Kupaka rangi ,mikono mitatu katika**	
i	Msingi wa nyumba	20,000/=
ii	Fascia board na roof vent	50,000/=
iii	Madirisha ya chuma (grill)	30,000/=
	JUMLA NDOGO YA RANGI NA MAPAMBO	720,000/=
8	**UMEME (electrical installation)**	
i	Usukaji wa umeme awamu ya kwanza (conduit na box) hii ikujumuisha na pointi za DP za AC pamoja na uwekaji wa panel zote (back boxes) kulingana na mchoro wa engineer wa services kulingana na mchoro	70,000/=
ii	Usukaji wa umeme awamu ya pili (2nd fix) kulingana na mchoro	200,000/=
iii	Ufungaji wa vifaa vyote vya umeme (fittings) kulingana na mchoro	150,000/=
iv	Kuandaa nyaraka za kukabidhi kazi kama Michoro ya kama ilivyojengwa,test results na ripoti za mafunzo ya utumiaji wa mfumo.	100,000/=
	JUMLA NDOGO UMEME (ELECTRICAL INSTALLATION)	520,000/=

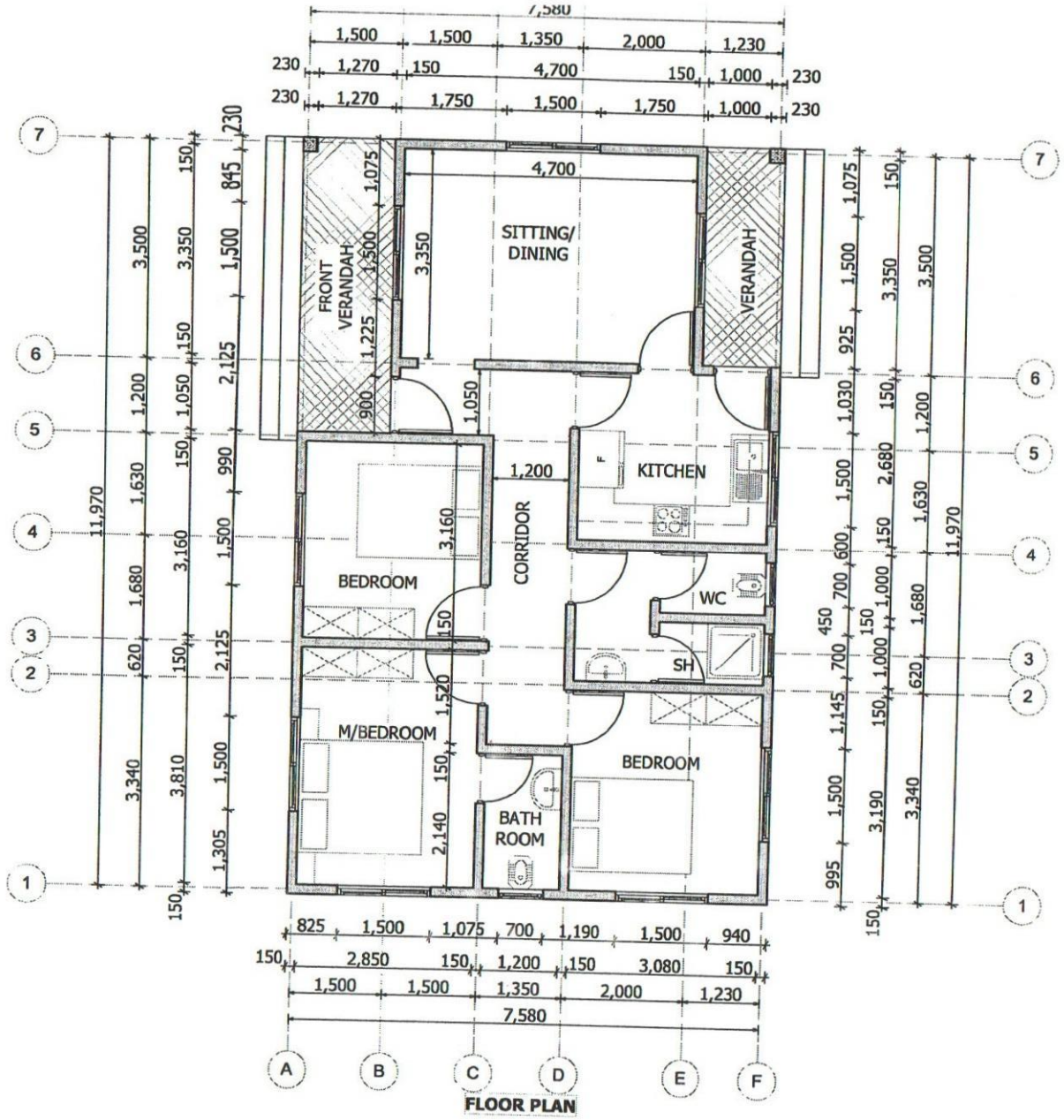
NGASAMU CONSTRUCTION CO
P.O. BOX 453
TEL 028-2762893
SHINYANGA

12	**MIFUMO YA MAJI SAFI NA MAJI TAKA (WATER SUPPLY AND SEWERAGE SYSTEM).**	
i	Ufungaji bomba awamu ya kwanza (kuchimbia bomba) 1st fix	50,000/=
ii	Ufungaji wa vifaa vyote vya bomba (kama vyoo,HWB,shattaf,watertaps,soap holder nk)	100,000/=
iii	Kuunganisha maji kwenye jengo	30,000/=
iii	Uchimbaji wa wa mashimo ya maji taka (septic and soak away tanks	200,000/=
iv	Ujenzi wa mashimo ya taka pamoja na chembazake,kufitisha mifuniko yake ya chuma na kufanyia finishings.	150,000/=
	JUMLA NDOGO MIFUMO YA MAJI SAFI NA MAJI TAKA	530,000/=

NGASAMU CONSTRUCTION CO
P.O. BOX 453
TEL 028-2762993
SHINYANGA

SUMMARY YA JENGO LA NYUMBA YA MTUMISHI

A	Jumla ya gharama za awali (preliminaries)	60,000/=
B	**GHARAMA ZA UFUNDI KWENYE JENGO**	
1	Jumla katika msingi wa jengo (sub structure)	7,700,000=
2	Jumla ya kunyanyua jengo (superstructure)	3,550,000/=
3	Jumla ndogo kuezeka (Roofing and covering)	1,500,000=
4	Jumla ndogo milango	300,000/=
5	Jumla ndogo madirisha	150,000/=
6	Jumla ndogo ya umaliziaji jengo (finishing)	2,600,000/=
7	Jumla ndogo ya rangi na mapambo	720,000/=
8	Jumla ndogo umeme (electrical installation)	520,000/=
9	Jumla ndogo mifumo ya maji safi na maji taka	530,000
	JUMLA KUU YA GHARAMA ZA UFUNDI JENGO LA NYUMBA YA MTUMISHI	17,630,000/=


FRONT VERANDAH
SITTING/ DINING
VERANDAH
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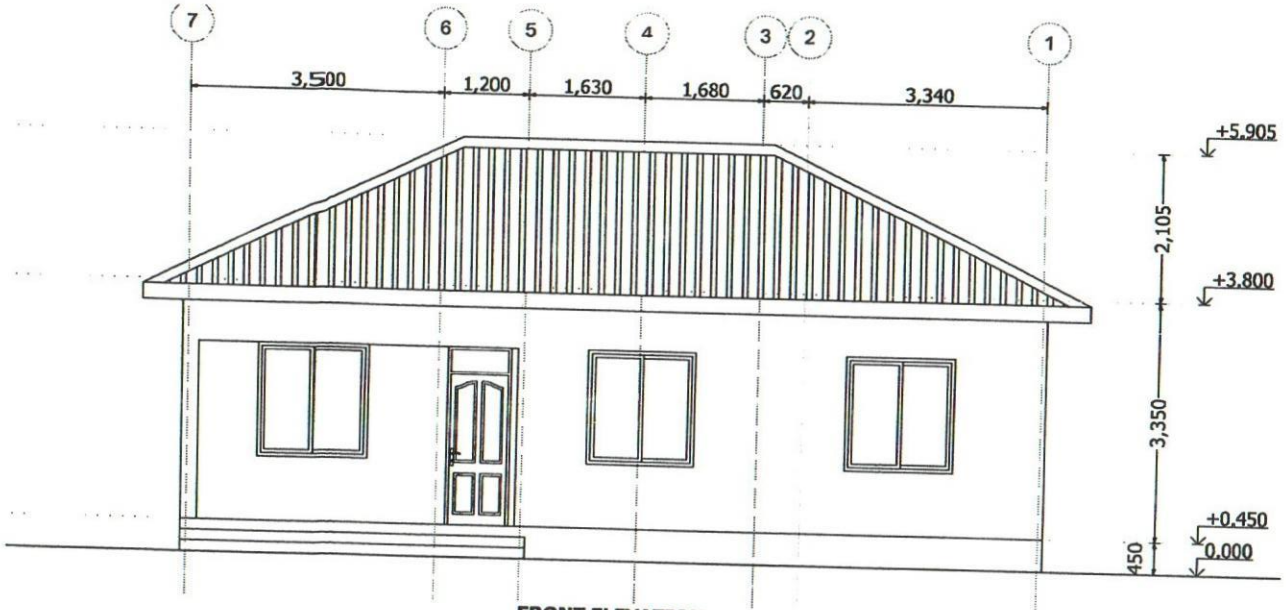
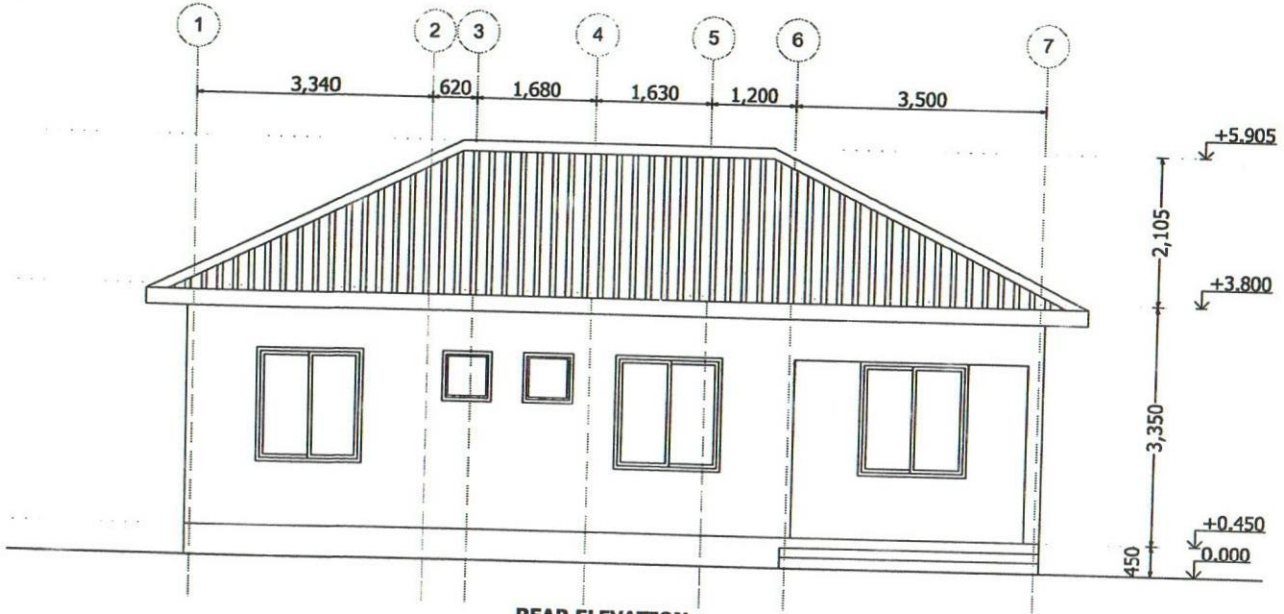
FLOOR PLAN



FRONT ELEVATION



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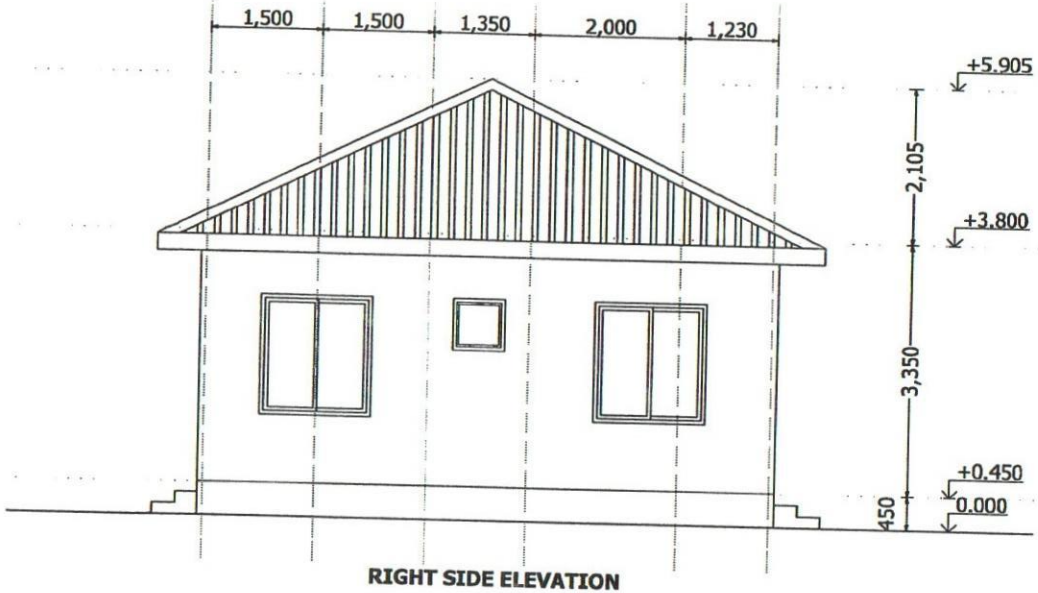
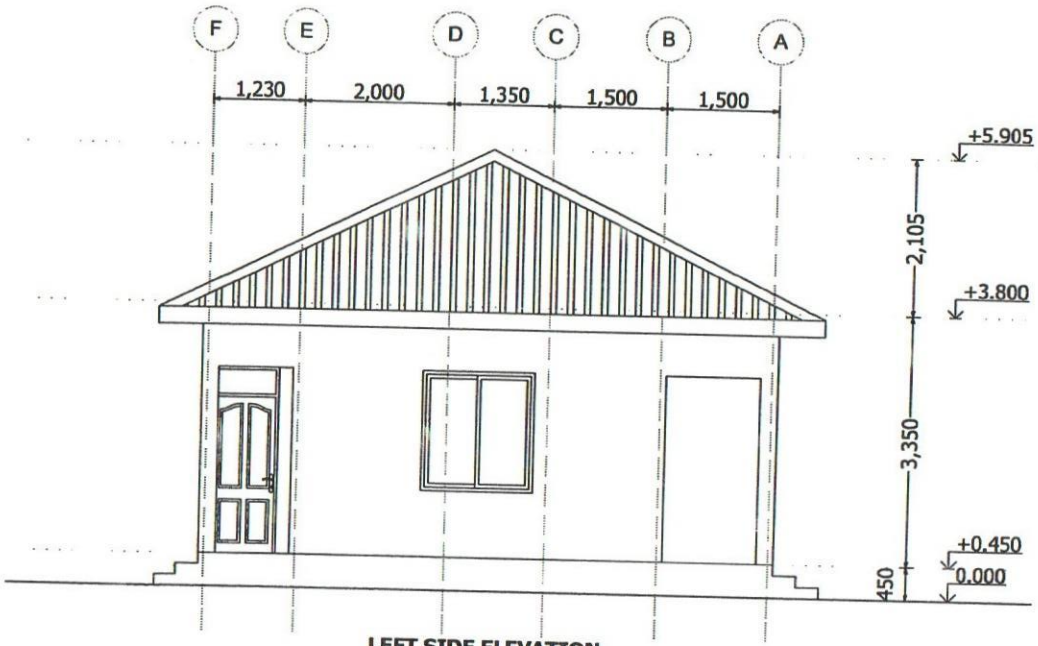
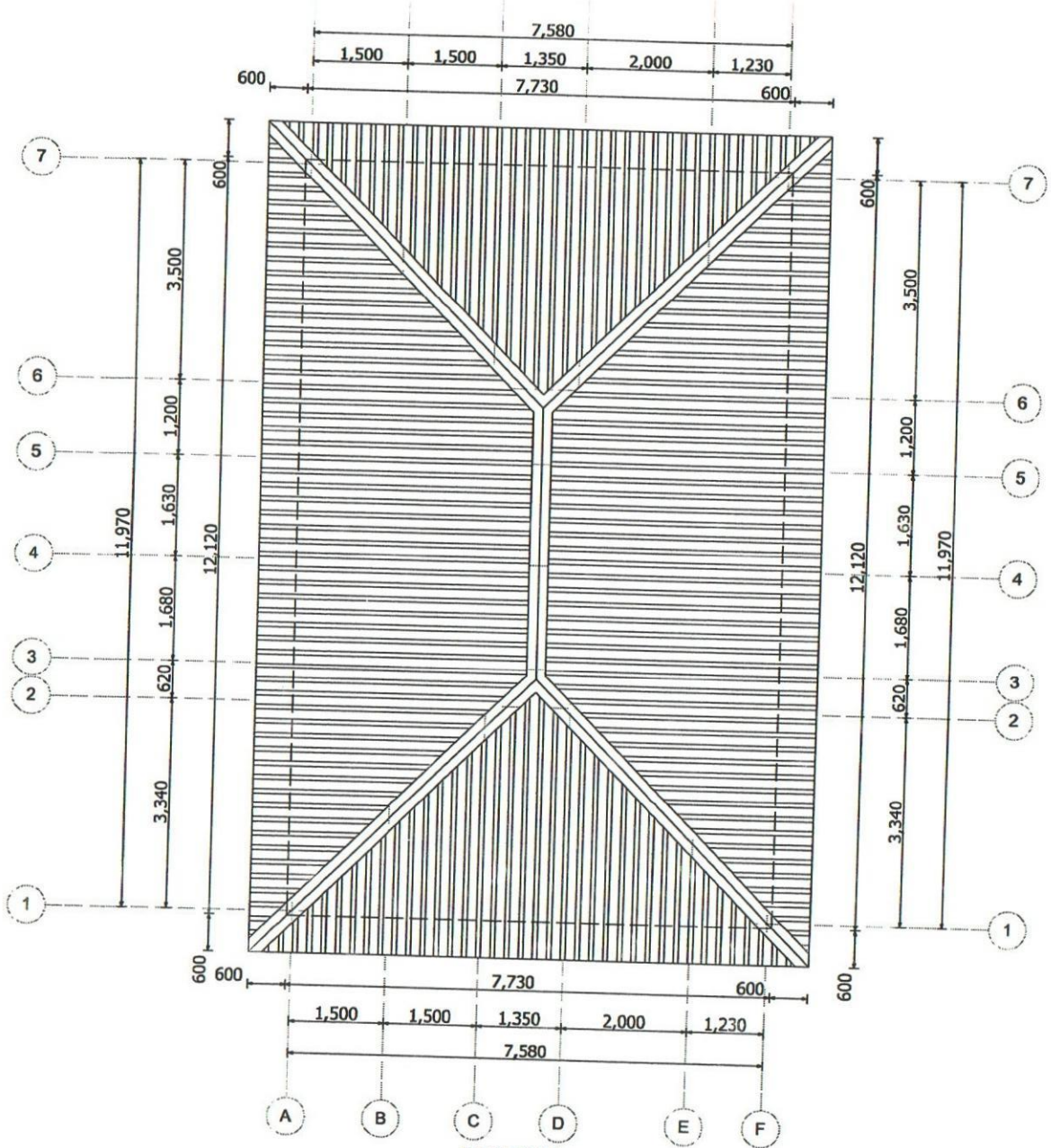


RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION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600
3,500
1,200
1,630
1,680
620
3,340
11,970
12,120
A
B
C
D
E
F

ROOF PLAN

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

CONTRACT DOCUMENT

SHINYANGA REGIONAL REFERRAL HOSPITAL

CONTRACT NUMBER: ME/SRRH/007/2021/2022/W/08

FOR

PROVISION OF LABOUR FOR PRO POSED CONSTRUCTION OF X-RAY AND CT-SCAN BUILDING AT SHINYANGA REGIONAL REFERRAL HOSPITAL

EMPLOYER :
Medical Officer Incharge,
Shinyanga Regional Referral Hospital,
P.O.Box 17,
SHINYANGA

CONTRACTOR:
Nlungamo Investment Company Ltd
P.O.Box 2193
SHINYANGA.

MARCH 2022

Appendix B: Key Personnel

3. The mutual rights and obligations of the Employer and the Service Provider shall be as set forth in the Contract, in particular:

a) The Service Provider shall carry out the Services in accordance with the provisions of the Contract; and

b) the Employer shall make payments to the Service Provider in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

SIGNED by the said the Medical Officer In charge Shinyanga Regional Referral Hospital P. O. Box 17 SHINYANGA For and on behalf of *Employer:*

Name Dr. Richard Mhangwa

Signature

Occupation Ag MOIC

Date 24/03/2022

MEDICAL OFFICER INCHARGE SHINYANGA KRH BOX 17 24 MAR 2022

In the Presence of:

Name: Beatrice Cheyo

Signature

Designation HRO

SIGNED by the said Managing Director, Ntungamo Investment Company Ltd, P.O. Box 2193 SHINYANGA for and on behalf of *the Service Provider:*

Name GERVAS MOLAND KUMALEGA

Signature

Occupation AG M-D

Date 24/03/2022

NTUNGAMO INVESTMENT COMPANY LTD P.O. Box 2193 SHINYANGA

In the Presence of:

Name Kato Leopold

Signature

Designation Fundi

SHINYANGA REGIONAL REFERRAL HOSPITAL

Telegrams "AFYA" Shinyanga
Phone No: 028 –2763283
Fax No: 028 – 2763283
Email: nshinyangarrh@afya.go.tz

Regional Referral Hospital
P.O.BOX 17,
Shinyanga .
22.03.2022.

LETTER OF ACCEPTANCE:

TO: M/S NTUNGAMO INVESTMENT COMPANY LTD,

P.O.BOX 2193,

SHINYANGA.

RE: PROVISION OF LABOUR FOR PROPOSED CONSTRUCTION OF X-RAY AND CT-SCAN BUILDING AT SHINYANGA REGIONAL REFERRAL HOSPITAL:

This is to notify you that your quotation dated March, 2022 for the Provision of Labour for Proposed Construction of X-Ray and Ct-Scan Building at Shinyanga Regional Referral Hospital for the contract price of Tshs **55,365,000** (Fifty-five million three hundred sixty-five thousand only) as corrected and modified in accordance with the instruction to Bidder is hereby accepted by our agency.

You are required to sign the contract Agreement and commence the services as you will be instructed from the date of signing the contract.

.....

Dr.Richard Mhangwa

Acting:Medical Officer Incharge

Shinyanga Regional Referral Hospital

MEDICAL OFFICER INCHARGE
SHINYANGA REGIONAL REFERRAL
HOSPITAL

SECTION IV: GENERAL CONDITIONS OF CONTRACT

GHARAMA ZA AWALI *(PRELIMINARIES)* JENGO LA RADIOLOJIA-SCHEDULE OF LABOUR

NTUNGAMO INVESTMENT COMPANY LTD
P. O. Box 2193
SHINYANGA

Na	MAELEZO YA KAZI	Tsh
B	Kuchimba mashimo, kusimika mirunda, kumwaga zege,kugongelea mbao pamoja na bati pamoja na kuezeka kwenye store ya kuhifadhia material site, wastani wa (5x4)m	300,000/=
C	Kuweka screed floor kwenye store ya wastani wa 5x4m	100,000/=
	Kuweka screed floor kwenye store ya wastani wa 5x4m	100,000/=
E	Kufunga milango ya bati kwenye store.	50,000/=
	JUMLA	550,000/=

NTUNGAMO INVESTMENT COMPANY LTD
P. O. Box 2193
SHINYANGA

GHARAMA ZA UFUNDI WA JENGO LA RADILOJIA

GHARAMA ZA UFUNDI UJENZI WA JENGO LA RADIOLOJIA-HOSPITALI YA RUFAA YASHINYANGA RRH		
Na	AINA YA KAZI	BEI YA UFUNDI
1	**Msingi wa Jengo (sub structure)**	
i	Kusafisha eneo kwa kuondoa miti,visiki na kutoa uchafu eneo la ujenzi (257m^2)	300,000/=
ii	Kuchimba na kuondoa udongo wa mweusi (rutuba) wastani wa 150mm (257m^2)	300,000/=
i	Kuseti jengo	400,000/=
ii	Uchimbaji wa msingi (isizidi 1.5m)-50m^3	450,000/=
	Uchimbaji wa mashimo ya nguzo (isizidi 1.5m)-1m^3	200,000/=
ii	Kuvunja Mawe kama yapo	150,000/=
iii	Kufukia na kushindilia msingi -23m^3	250,000/=
	Kuondoa kifusi kilichozidi na kisichohitajika eneo la ujenzi-28m3	200,000/=
B	**Usukaji wa nondo katika**	
i	Kitako cha nguzo (column base) kulingana na mchoro	150,000/=
ii	Nguzo wa wima za msingi (column starter) kulingana na mchoro	200,000/=
iii	Nguzo mlalo za kwenye msingi (Ground beam) kulingana na mchoro.	1,200,000/=
C	**Kufunga na kuondoa mbao**	
i	Pembezoni mwa jamvi (60m)	800,000/=
ii	Pembezoni mwa nguzo wima za msingi,pembezoni mwa nguzo mlalo za msingi pamoja na pembeni mwa kitako cha nguzo (column base)-75m^2	750,000/=
D	**Kumwaga zege**	
i	Chini kwenye kitako cha msingi (strip foundation)-21m^3	2,000,000/=
ii	Chini kwenye kitakocha nguzo (column base)-1m^3	200,000/=
iii	Katika nguzo wima za awali (column starter)-1m^3	200,000/=
iv	Katika nguzo mlalo za kwenye msingi (ground beam)-8m^3	950,000/=

TUNGAMO INVESTMENT COMPANY LTD
P. O. Box 2193

v	Kwenye jamvi (oversite concrete)-211m^2	3,000,000/=
vi	Katika njia panda (Ramp)-8m^2	500,000/=
vi	Umwagiliaji maji	200,000/=
E	**Kuta za msingi**	
i	Ujenzi wa kuta za msingi (tofali za kulala)-85m2	1,200,000/=
F	**Upangaji na ushindiliaji**	
i	Upangaji wa mawe(178m^2) na utandazaji wa DPM (500gauge)-211m^2	750,000/=
ii	Uwekaji wa kifusi nkushindilia katika misingi,mashimo ya nguzo na na kwenye jamvi kutumia Kifusi kilichokubalika (300mm) - 178m^2	500,000/=
iii	Uwekaji wa sumu ya mchwa kwenye jamvi(178m^2) na pembezoni mwa kuta za msingi (21m)	100,000/=
	JUMLA KATIKA MSINGI WA JENGO (SUB STRUCTURE)	14,950,000/=

2	**Kunyanyua jengo (super structure)**	
A	**Kusuka nondo katika**	
i	Nguzo wima Kutoka kwenye jamvi hadi katika nguzo mlaloza kupokea paa (roof beam)	200,000/=
ii	Kwenye nguzo mlalo	1,800,000/=
iii	Katika Ramp na ngazi (steps)	150,000/=
B	**Kufunga na kuondoa mbao**	
i	Katika nguzo wima Kutoka kwenye jamvi hadi kwenye nguzo mlalo za kupokea paa-16m2	350,000/=
ii	Katika pande za wima za Nguzo mlalo za kupokea paa (Roof beam)-73m^2	800,000/=
	Kwa chini mwa Nguzo mlalo za kupokea paa (Roof beam)-26m	400,000/=
iv	Katika Ramp ngazi (steps) na Cill za madirisha 26m	500,000/=
C	**Kumwaga zege**	

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i	Katika nguzo wima Kutoka kwenye jamvi hadi kwenye nguzo mlalo za kupokea paa (Roof beam)-1m^3	150,000/=
ii	Katika Nguzo mlalo za kupokea paa (roof beams)-7m^3	1,500,000/=
iii	Katika Ramp na ngazi (steps)-1m^3	150,000/=
D	**Ujenzi wa kuta**	
i	Uwekaji wa DPC-108m	200,000/=
ii	Katika kuta za nje-82m^2	950,000/=
iii	Katika kuta za ndani-249m^2	2800,000/=
	JUMLA YA KUNYANYUA JENGO (SUPERSTRUCTURE)	9,950,000/=

3	**Kuezeka (Roof structure)**	
i	Kutengeneza kenchi za mbao kwa kufuata mchoro	600,000/=
ii	Kupandisha kenchi za mbao kwenye jengo	400,000/=
iii	Kuezeka-229m2	1,100,000/=
iv	Kufunga matega maji (gutters & downpipes) kuzunguka jengo na kulingana na mchoro.	300,000/=
	JUMLA NDOGO KUEZEKA	2,400,000/=
4	**MILANGO**	
i	Kufitisha fremu za milango kulingana na mchoro -71m	250,000/=
ii	Kuweka urembo wa pembeni mwa fremu za mbao (Architrave)-65m	200,000/=
iii	Kufunga milango (shutters) pamoja na bawaba na Vitasa vyake vyote-9Nos	360,000/=
iv	Kufunga mlango wa Steel X-ray	300,000/=
v	Kuweka majina kwenye milango yote pamoja na Alama kwenye milango na maeneo yatakayotakiwa (Name plates and Signs)	500,000/=
	JUMLA NDOGO MILANGO	1,610,000/=

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5	**MADIRSHA**	
i	Kufitisha madirisha ya chuma (grill)-7 kulingana na vipimo	210,000/=
	JUMLA NDOGO MADIRISHA	210,000/=
6	**UMALIZIAJI (Finishing)**	
A	**Upigaji wa lipu pamoja kutengeneza koplo**	
i	Nje ya jengo-219m^2	1,200,000/=
ii	Ndani ya jengo-521m^2	2,150,000/=
iii	Nguzo wima-10m^2	200,000/=
iii	Kwenye kuta za Varanda-15m^2	250,000/=
iii	Kwenye nguzo mlalo (lenta)-9m^2	200,000/=
	Nguzo za mbele za jengo-15m^2	250,000/=
B	**Vigae kwenye Sakafu**	
i	Uwekaji wa sakafu ya kupokea vigae-211m^2	840,000/=
ii	Uwekaji wa vigae pamoja na grout katika sakafu (floor tiles)-211m^2	1,500,000/=
iii	Uwekaji wa vigae vya skirting-203m	350,000/=
iv	Uwekaji wa vigae kwenye ngazi-39m	200,000/=
v	Uwekaji wa vigae kwenye ngazi mlalo(Ramp)-11m^2	150,000/=
B	**Vigae kwenye Ukuta**	
	Uwekaji wa vigae pamoja grout katika kuta za vyooni na mabafuni (wall tiles)-101m^2	650,000/=
C	**DARI**	
i	Ufungaji wa mbao za dari (brandering) pamoja na gypsum bords -211m^2	1,200,000/=
ii	Ufungaji mikanda-266m	250,000/=
iii	Uwekaji wa mlango wa dari-1(mmoja)	30,000/=
	JUMLA NDOGO YA UMALIZIAJI JENGO (FINISHING)	9,420,000/=

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7	**Rangi na Mapambo (painting & Decorations)**	
A	**Kupaka rangi ,mikono mitatu pamoja na Skimming**	
	Nje ya jengo-219m^2	450,000/=
	Ndani ya jengo-789m^2	1,600,000/=
	Nguzo wimaza mbele-10m^2	50,000/=
	Kwenye kuta za Varanda-15m^2	100,000/=
	Kwenye nguzo mlalo (lenta)-11m^2	100,000/=
	Fremu za milango-51m	100,000/=
	Cill za madirisha-26m	150,000/=
	Kwenye dari-211m^2	400,000/=
B	**Kupaka rangi ,mikono mitatu katika**	
i	Msingi wa nyumba	150,000/=
ii	Fascia board na roof vent	50,000/=
iii	Madirisha ya chuma (grill)	250,000/=
	JUMLA NDOGO YA RANGI NA MAPAMBO	3,400,000/=
8	**UMEME (electrical installation)**	
i	Usukaji wa umeme awamu ya kwanza (conduit na box) hii ikujumuisha na pointi za DP za AC,ICT etc, pamoja na uwekaji wa panel zote kulingana na mchoro wa engineer wa services kulingana na mchoro	300,000/=
ii	Usukaji wa umeme awamu ya pili (2nd fix) kulingana na mchoro	1500,000/=
iii	Ufungaji wa vifaa vyote vya umeme (fittings) kulingana na mchoro	1,000,000/=
iv	Kuandaa nyaraka za kukabidhi kazi kama Michoro ya kama ilivyojengwa,test results na ripoti za mafunzo ya utumiaji wa mfumo.	200,000/=
	JUMLA NDOGO UMEME (ELECTRICALINSTALLATION)	3,000,000/=
10	**ICT INSTALLATION**	
i	Usukaji wa mfumo wa ICT (2nd fix) kulingana na mchoro	500,000/=
ii	Ufungaji wa vifaa vyote vya ICT (fittings) kulingana na mchoro	1500,000/=

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ii	Kuandaa nyaraka za kukabidhi kazi kama Michoro ya kama ilivyojengwa,test results na ripoti za mafunzo ya utumiaji wa mfumo.	300,000/=
	JUMLA NDOGO ICT INSTALLATION	2,300,000/=
11	**AC INSTALLATION**	
i	Uwekaji wa pipe za AC (Copper pipe) awamu ya kwanza.	500,000/=
ii	Ufungaji wa indoor na outdoor machines za AC pamoja na vifaa vingine vya AC kulingana na mchoro wa service engineer	800,000/=
iii	Kuandaa nyaraka za kukabidhi kazi kama Michoro ya kama ilivyojengwa,test results na ripoti za mafunzo ya utumiaji wa mfumo.	300,000/=
12	**MIFUMO YA MAJI SAFI NA MAJI TAKA (WATER SUPPLY AND SEWERAGE SYSTEM).**	
i	Ufungaji bomba awamu ya kwanza (kuchimbia bomba) 1st fix	300,000/=
ii	Ufungaji wa vifaa vyote vya bomba (kama vyoo,HWB,shattaf,watertaps,soap holder nk)	400,000/=
iii	Kuunganisha maji kwenye jengo	500,000/=
iii	Uchimbaji wa wa mashimo ya maji taka (septic and soak away tanks	700,000/=
iv	Ujenzi wa mashimo ya taka pamoja na chembazake,kufitisha mifuniko yake ya chuma na kufanyia finishings.	3,175,000/=
	JUMLA NDOGO MIFUMO YA MAJI SAFI NA MAJI TAKA	5,075,000/=
11	**MIFUMO YA KUPMBANA NA MOTO (FIREFIGHTING SYSTEM).**	
	Uandaaji wa mazingira ya uwekaji wa fire extinguisher	600,000/=
	Ufungaji wa Portable fire extinguishers	300,000/=
	NB kazi hii ni specialized type of work	
	JUMLA NDOGO YA MIFUMO YA KUPMBANA NA MOTO (FIREFIGHTING SYSTEM).	900,000/=

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SUMMARY YA JENGO LA RADIOLOJIA

A	Jumla ya gharama za awali (preliminaries)	550,000/=
B	**GHARAMA ZA UFUNDI KWENYE JENGO**	
1	Jumla katika msingi wa jengo (sub structure)	14,950,000/=
2	Jumla ya kunyanyua jengo (superstructure)	9,950,000/=
3	Jumla ndogo kuezeka (Roofing and covering)	2,400,000/=
4	Jumla ndogo milango	1,610,000/=
5	Jumla ndogo madirisha	210,000/=
6	Jumla ndogo ya umaliziaji jengo (finishing)	9,420,000/=
7	Jumla ndogo ya rangi na mapambo	3,400,000/=
8	Jumla ndogo umeme (electrical installation)	3,000,000/=
9	Jumla ndogo Tehama (ICTinstallation)	2,300,000/=
10	Jumla ndogo AC installation	1,600,000/=
11	Jumla ndogo mifumo ya maji safi na maji taka	5,075,000/=
12	Jumla ndogo ya mifumo ya Kupambana na moto	900,000/=
	JUMLA KUU YA GHARAMA ZA UFUNDI JENGO LA RADIOLOJIA	55,365,000/=

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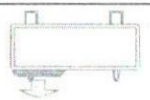
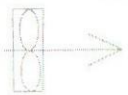
LEGEND - AIR CONDITIONING AND MECH. VENTILATION

S/No.	DESCRIPTION	SYMBOLS
1.	Single split, Outdoor Unit	
2.	Indoor unit, wall mounted type	
3.	Extract Fan	
4.	Condensate Drainage pipe	
5.	Refrigerant pipe	

No.	REF. DATE	APPROVAL	DESCRIPTIONS

STATUS

- ☐ FOR TENDER
- ☐ FOR INFORMATION
- ☐ FOR BUILDING PERMIT
- ☐ FOR APPROVAL
- ☐ FOR CONSTRUCTION

PROJECT:

PROPOSED CONSTRUCTION OF X-RAY AND CT SCAN BUILDING

CLIENT:

THE MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN (MoHCDEC)
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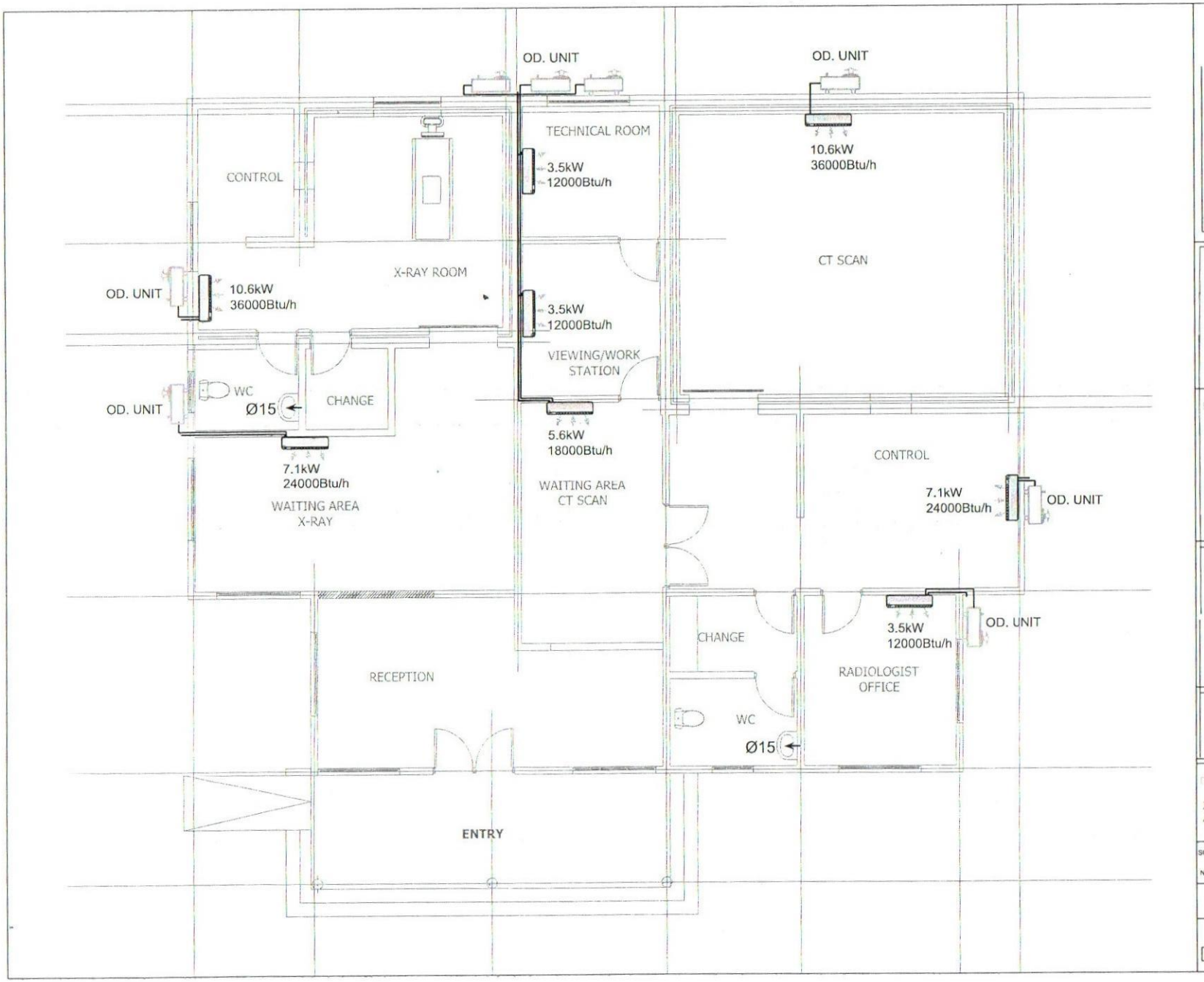
P.O BOX 743, 40478
DODOMA.
Tel: +255-22-2342000/5
Email: ps@afya.go.tz
Web: www.moh.go.tz

DRAWING TITLE:

LEGEND
AIR CONDITIONING LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number: MECH-AC-01



No.	REV. DATE	APPROVAL	DESCRIPTION

STATUS

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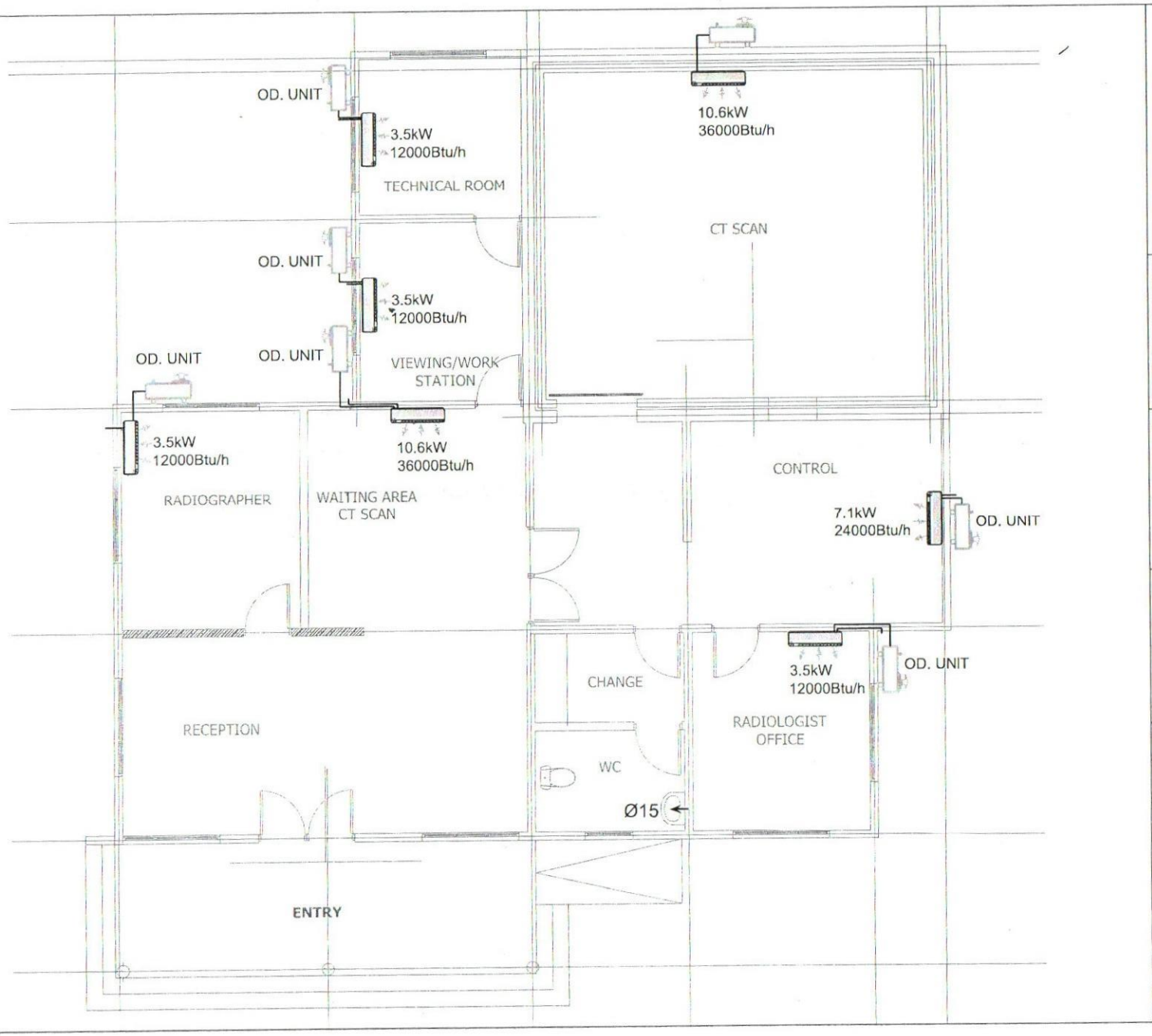
DRAWING TITLE:

X-RAY & CT SCAN FLOOR PLAN AIR CONDITIONING LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number: MECH/AC/02



No.	REF. DATE	APPROVAL	DESCRIPTION

MODE OF USE

- [ ] FOR TENDER
- [ ] FOR INFORMATION
- [ ] FOR BUILDING PERMIT
- [ ] FOR APPROVAL
- [ ] FOR CONSTRUCTION

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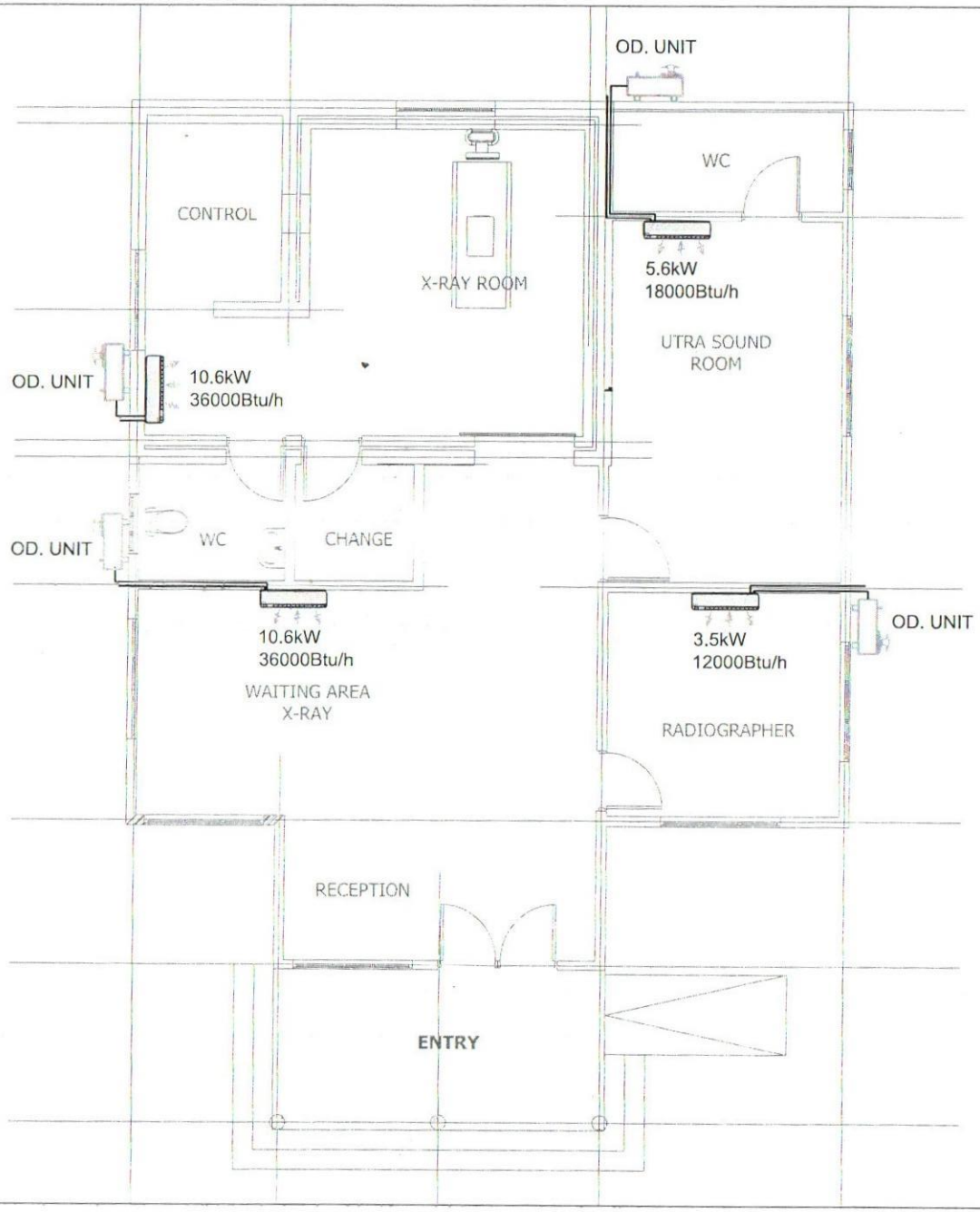
DRAWING TITLE:

CT SCAN FLOOR PLAN AIR CONDITIONING LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number: MECH/AC/03



NO	REV. DATE	APPROVAL	DESCRIPTION

PROJECT INF.

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X-RAY BUILDING

CLIENT

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DRAWING TITLE

X-RAY FLOOR PLAN
AIR CONDITIONING LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number : MECH/AC/04

LEGEND:

WATER SUPPLY INSTALLATION SYMBOLS

S/No.	SYMBOL/ABREV.	DESCRIPTION
1.		MOTOR (PUMP)
2.		GATE VALVE
3.		NON-RETURN VALVE
4.		COLD WATER SUPPLY PIPE - PPR

NOTES

1. ALL PIPES, JOINTS, VALVES AND OTHER ACCESSORIES TO BE PPR (DIZAYN).

2. PIPE SIZE:
   # All water supply pipes should be complying with BS 6700-1987.
   # Pipes to WC, HWB, and UR are Ø15mm.
   # Distribution pipes should be Ø40, Ø32, Ø25 and Ø20mm.

No.	REF./DATE	APPROVAL	DESCRIPTION

DISCIPLINE

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DRAWING TITLE:

LEGEND
WATER SUPPLY LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV,2021	S.D	S.D	E.M

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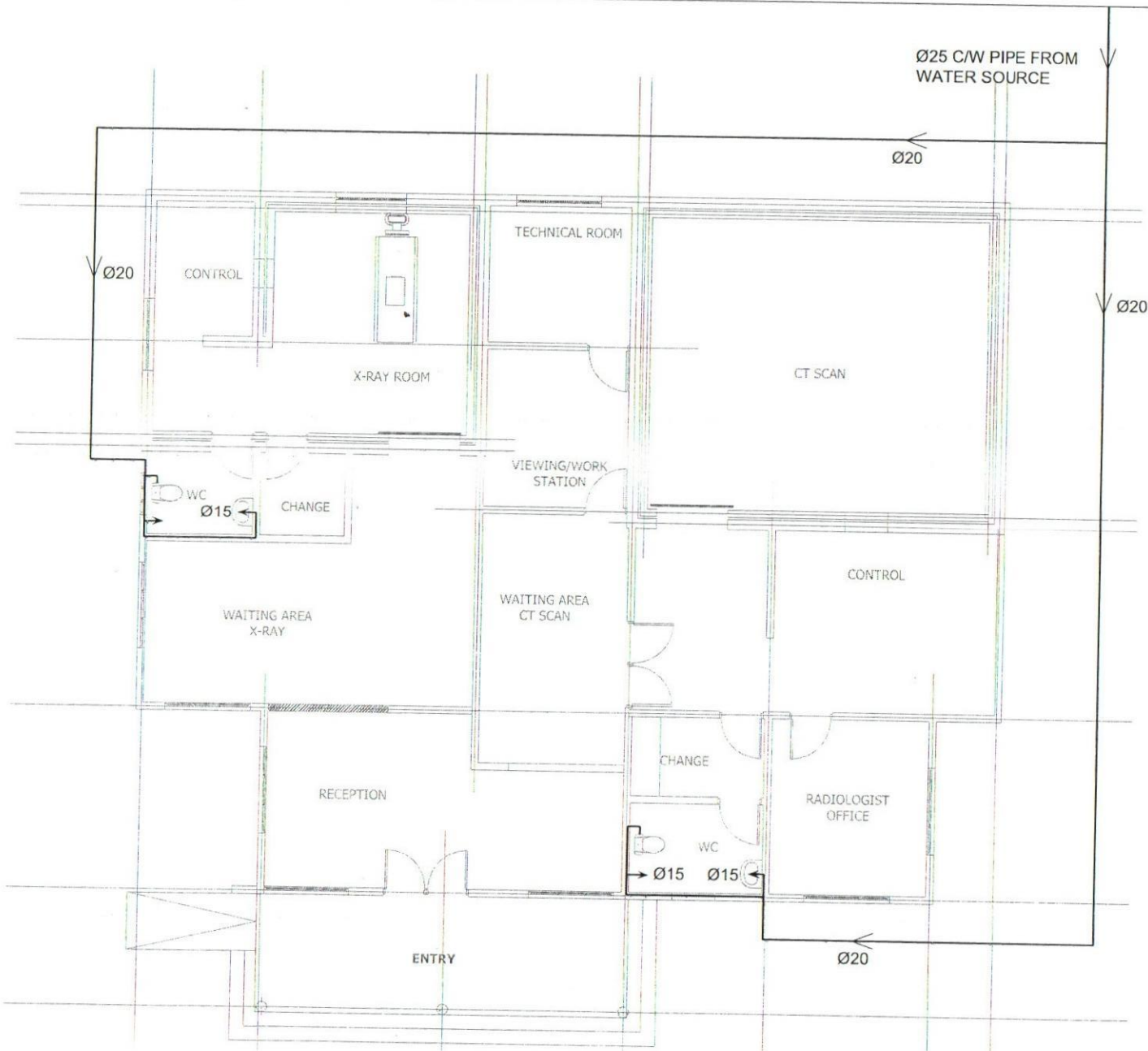

FOR TENDER

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PROPOSED
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X-RAY AND CT SCAN
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THE MINISTRY OF
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X-RAY & CT SCAN FLOOR PLAN
WATER SUPPLY LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

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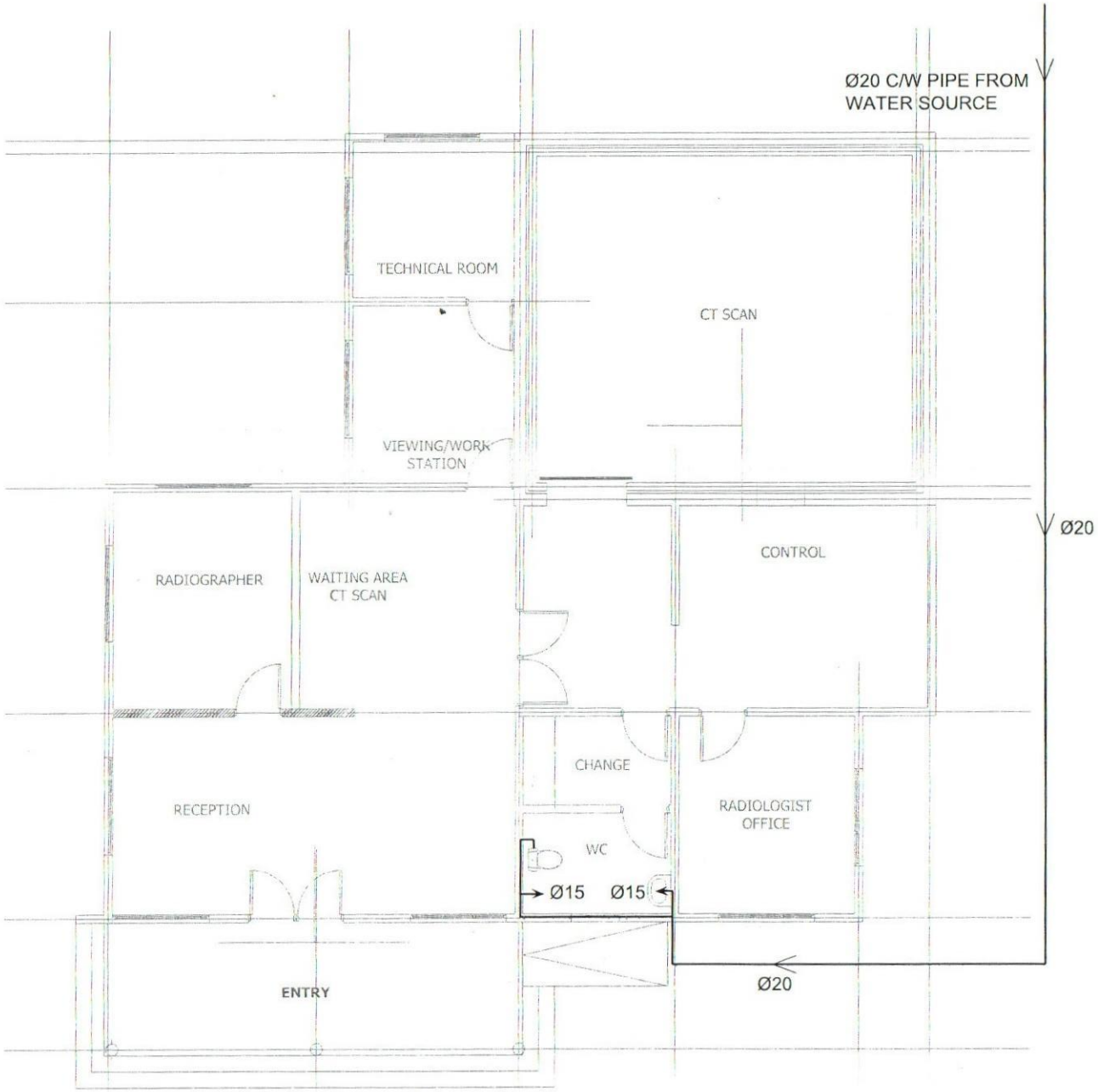

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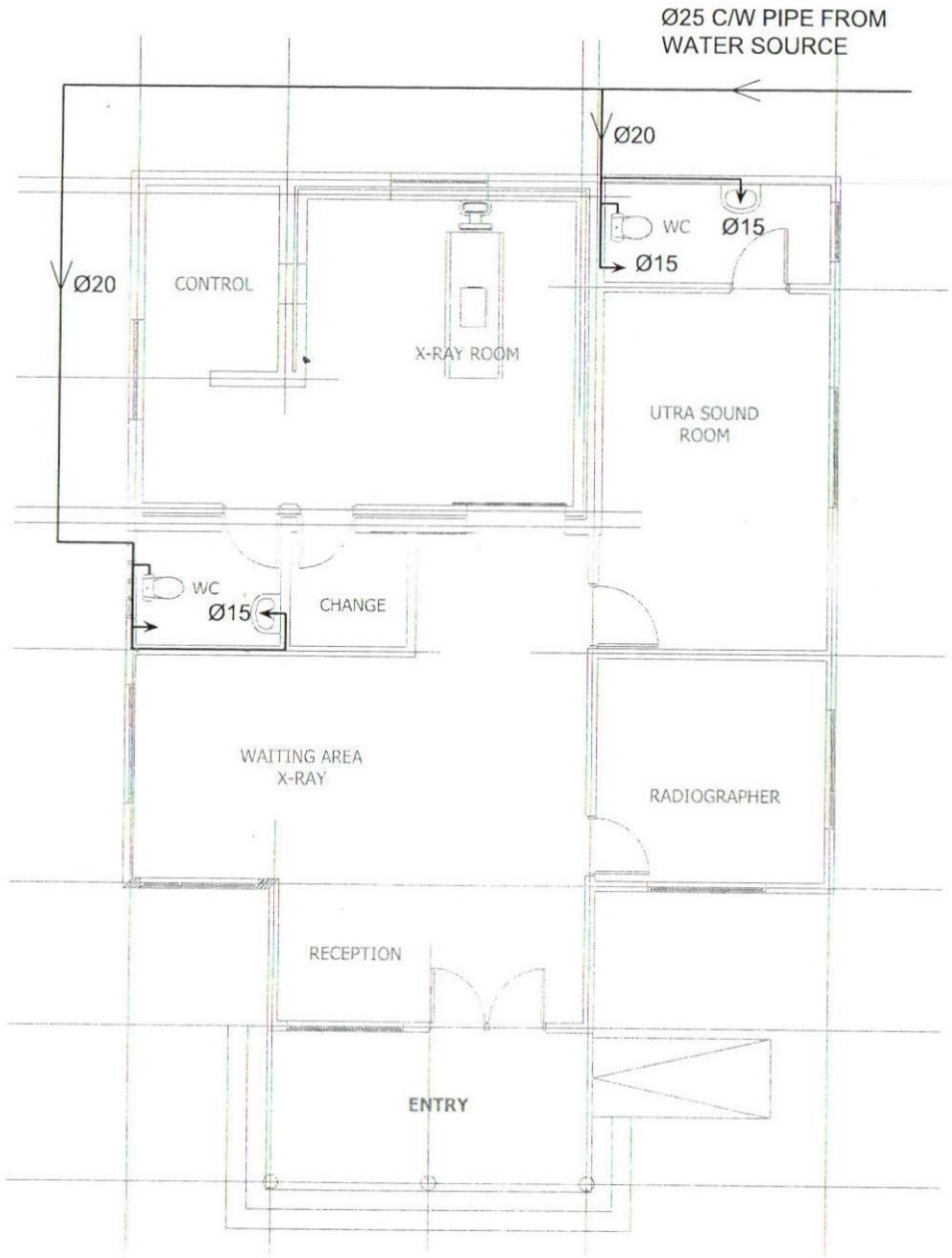
DRAWING TITLE:

CT SCAN FLOOR PLAN WATER SUPPLY LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV,2021	S.D	S.D	E.M

Drawing Number : MECH/WS/03



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X-RAY BUILDING

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THE MINISTRY OF
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DRAWING TITLE:

X-RAY FLOOR PLAN
WATER SUPPLY LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number : MECH/WS/04

LEGEND FOR WASTE WATER DRAINAGE SYSTEM

S/No.	SYMBOLS/ABREVIATIONS.	DESCRIPTION
1	————	SOIL WATER DRAINAGE PIPELINE
2	————	WASTE WATER DRAINAGE PIPELINE
3	MH	MANHOLE
4	WC	SHOWER/ WATER CLOSET
5	FD	FLOOR DRAIN

NOTES

1. PIPE FITTINGS
   All pipes and fittings to be uPVC pipes class 'B'

2. PIPE SIZE
   Pipes from WC should be Ø100.
   Pipes from HWB and Kitchen sinks should be Ø50.
   Pipes from manholes to manholes are Ø100

3. SLOPE
   The Slope between manholes is 1% (1:100)

4. MANHOLE DESCRIPTIONS
   Manhole size: 600 x 600 internally - Depth to depend on the level in consideration
   Gully trap size: 200 x 200 x 200 internally for light duty.

NO.	REF. DATE	APPROVAL	DESCRIPTION

PURPOSE

- [ ] FOR TENDER
- [ ] FOR INFORMATION
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- [ ] FOR CONSTRUCTION

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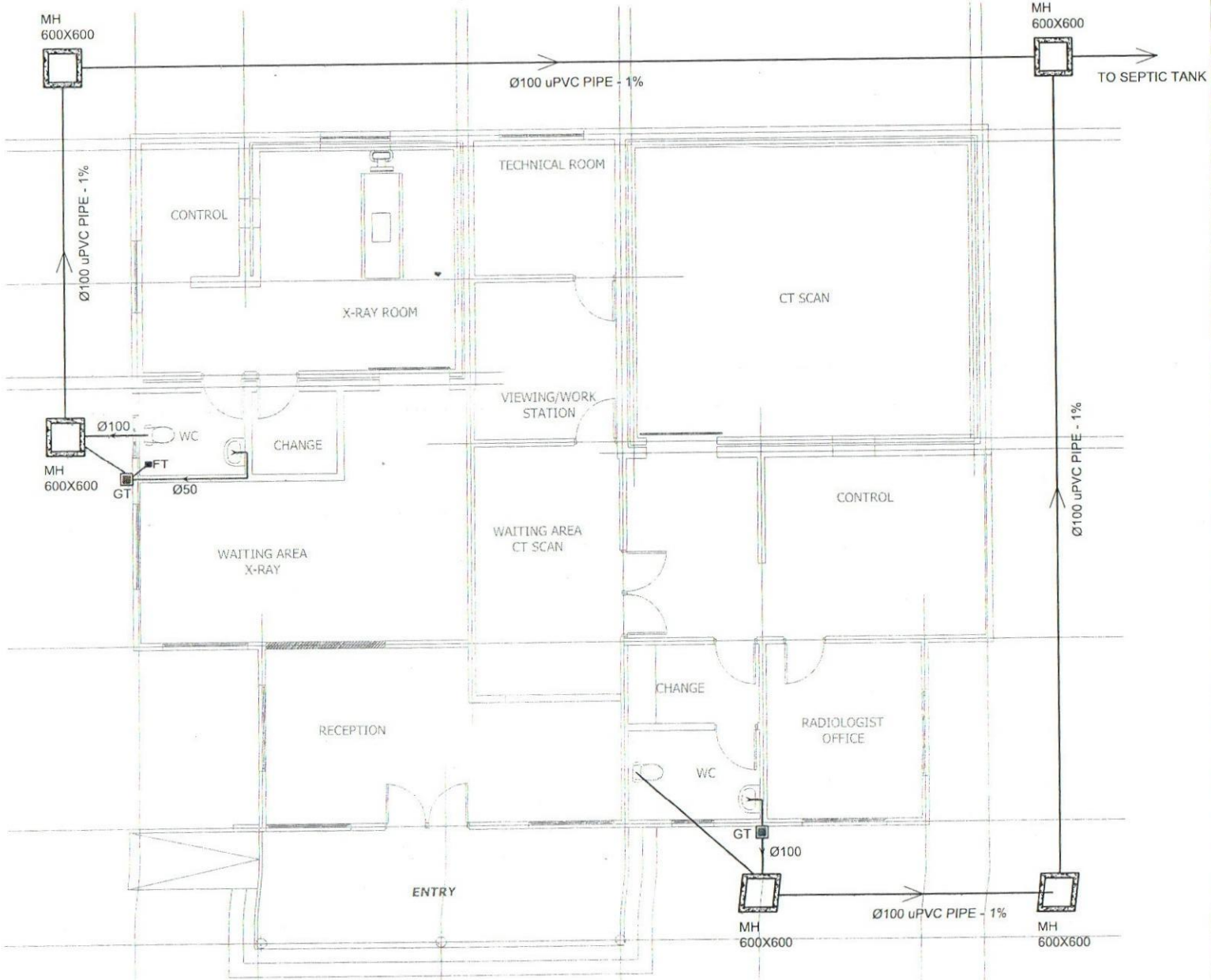
DRAWING TITLE

LEGEND
WASTE WATER DRAINAGE LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number : MECH/WW/01



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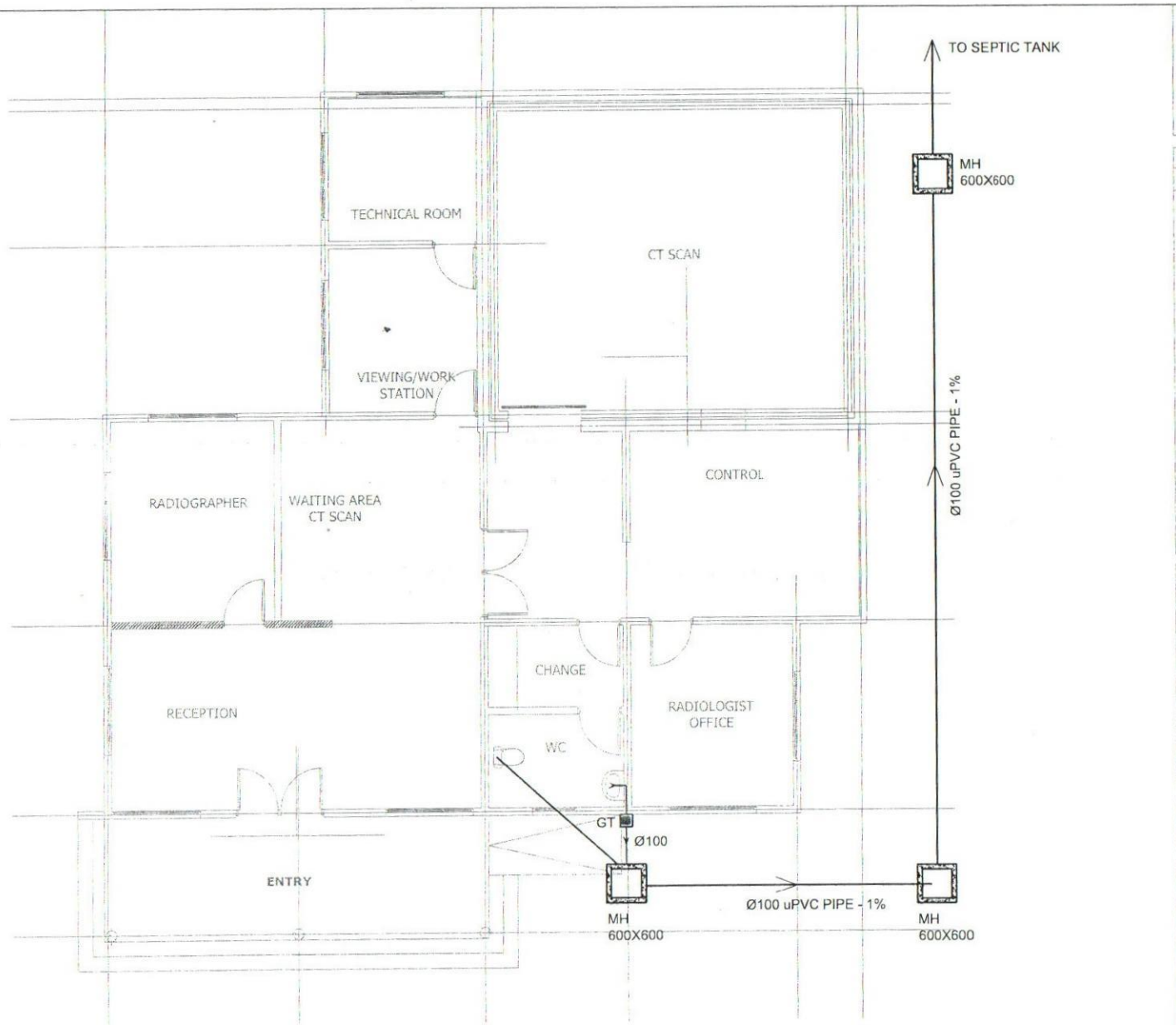
DRAWING TITLE

X-RAY & CT SCAN FLOOR PLAN
WASTE WATER DRAINAGE LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number : MECH/WW/02



PROPOSED CT SCAN BUILDING

No.	REF. DATE	APPROVAL	DESCRIPTION

DISCIPLINE

- ☐ FOR TENDER
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PROPOSED CONSTRUCTION OF CT SCAN BUILDING

CLIENT

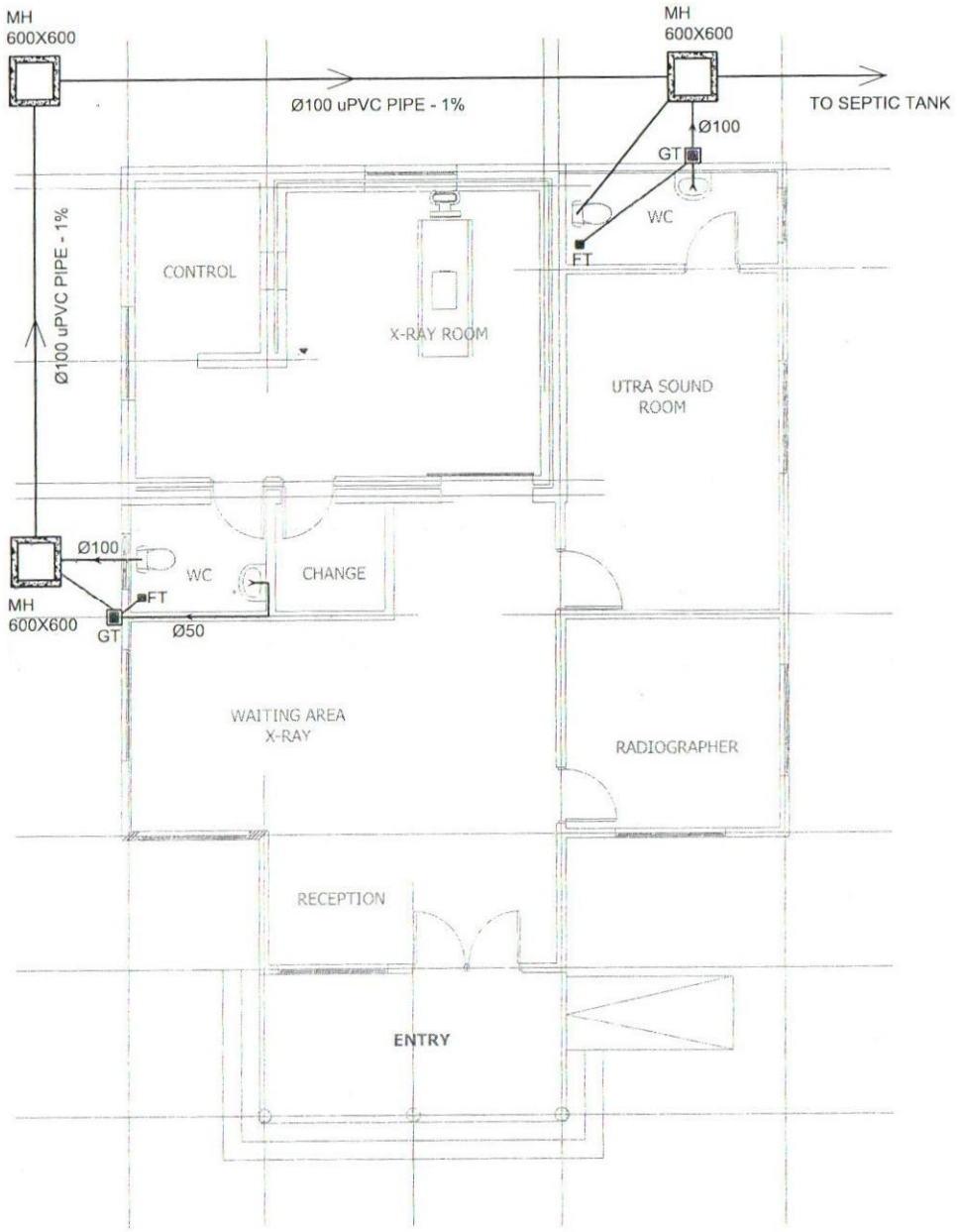
THE MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN (MoHCDEC)
Mji wa Serikali Mtumba,
P.O BOX 743, 40478
DODOMA.
Tel: +255 22-2342000/5
Email: ps@afya.go.tz
Web: www.moh.go.tz

DRAWING TITLE

CT SCAN FLOOR PLAN
WASTE WATER DRAINAGE LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number: MECH/WW/03



No.	REV. DATE	APPROVAL	DESCRIPTION

STATUS

- [ ] FOR TENDER
- [ ] FOR INFORMATION
- [ ] FOR BUILDING PERMIT
- [ ] FOR APPROVAL
- [ ] FOR CONSTRUCTION

PROJECT

PROPOSED
CONSTRUCTION OF
X-RAY BUILDING

CLIENT

THE MINISTRY OF
HEALTH, COMMUNITY
DEVELOPMENT, GENDER,
ELDERLY AND CHILDREN
(MoHCDEC)
Mji wa Serikali Mtumba,
P.O BOX 743, 40478
DODOMA.
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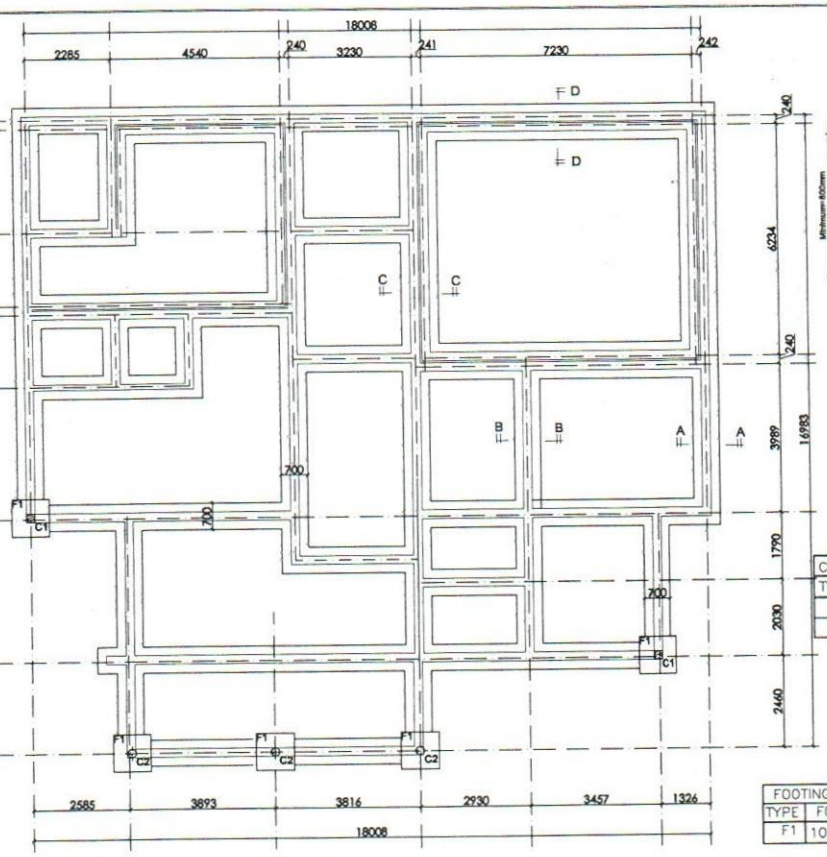
DRAWING TITLE

X-RAY FLOOR PLAN
WASTE WATER DRAINAGE LAYOUT

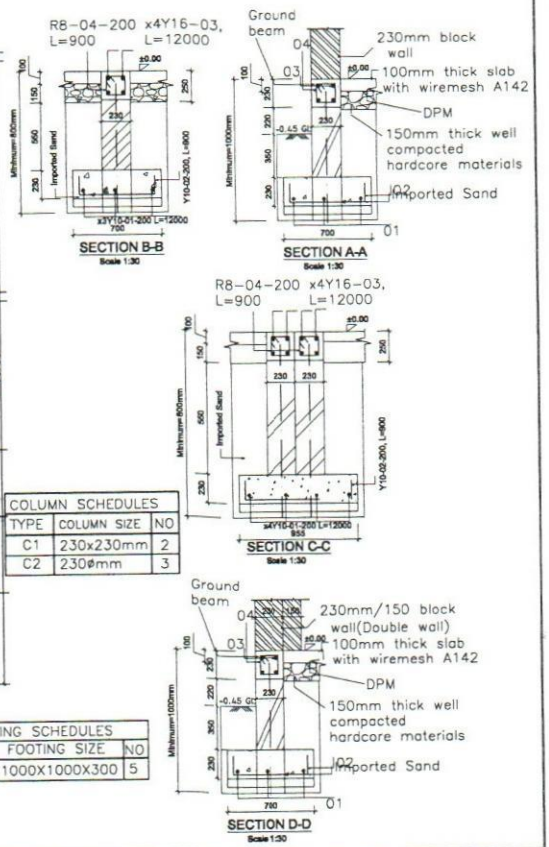
SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	S.D	S.D	E.M

Drawing Number : MECH/WW/04



FOUNDATON LAYOUT PLAN

SCALE 1:100



COLUMN SCHEDULES		
TYPE	COLUMN SIZE	NO
C1	230x230mm	2
C2	230ø mm	3

FOOTING SCHEDULES		
TYPE	FOOTING SIZE	NO
F1	1000X1000X300	5

General Notes:
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERING DRAWINGS

No.	Revision/Issue	Date

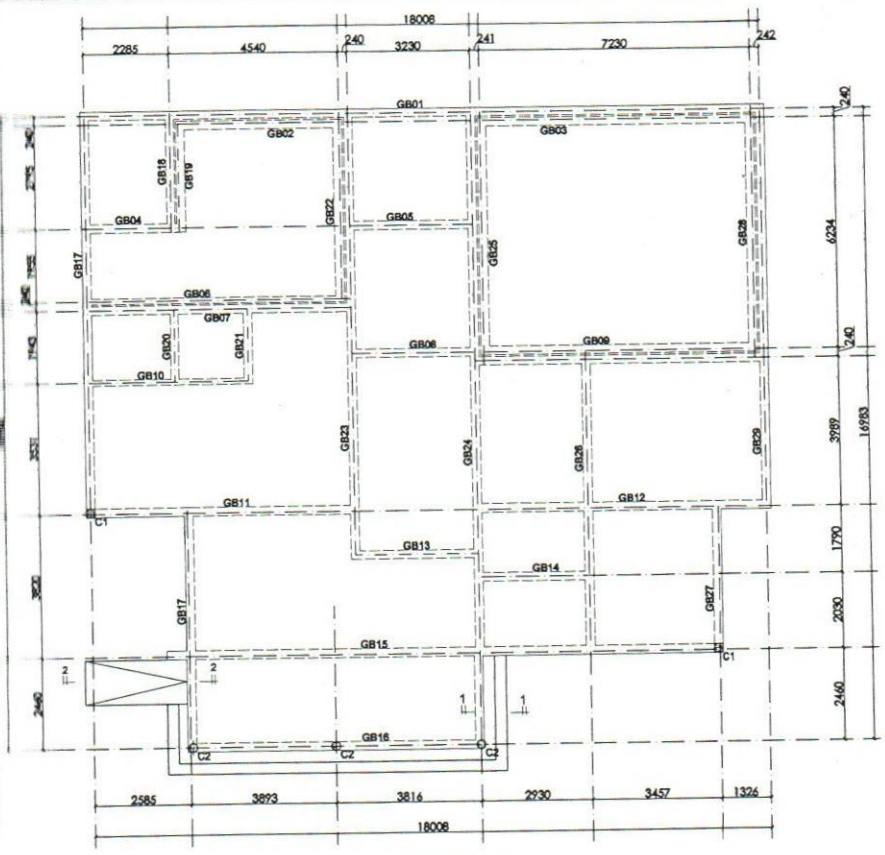
Job No: CF/XRCT/MoH/21

Client:
MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

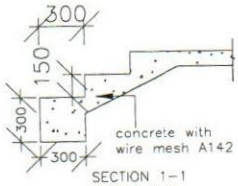
Project:
PROPOSED X-RAY AND CT SCAN BUILDING FOR REGIONAL REFERRAL HOSPITAL

Drawing Title:
FOUNDATION PLAN AND SECTIONS

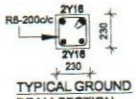
Designed by:	PONGA Z.S	Approved by:	
Drawn by:	PONGA Z. S		
Checked by:	A. MKOTTYA	CHH	
Scale:	1:100, 1:30	Drg No:	
Date:	NOV. 2021	S01/06	



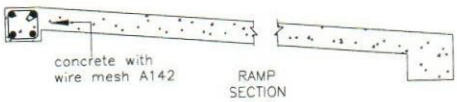
GROUND FLOOR LAYOUT PLAN
SCALE 1:100



SECTION 1–1
SCALE 1:25



TYPICAL GROUND
BEAM SECTION
Scale 1:25



RAMP
SECTION
2–2
SCALE 1:25

Notes:
DRAWING SHALL BE
READ IN CONJUNCTION
WITH ARCHITECTURAL AND
OTHER ENGINEERING
DRAWINGS

No.	Revision/Issue	Date

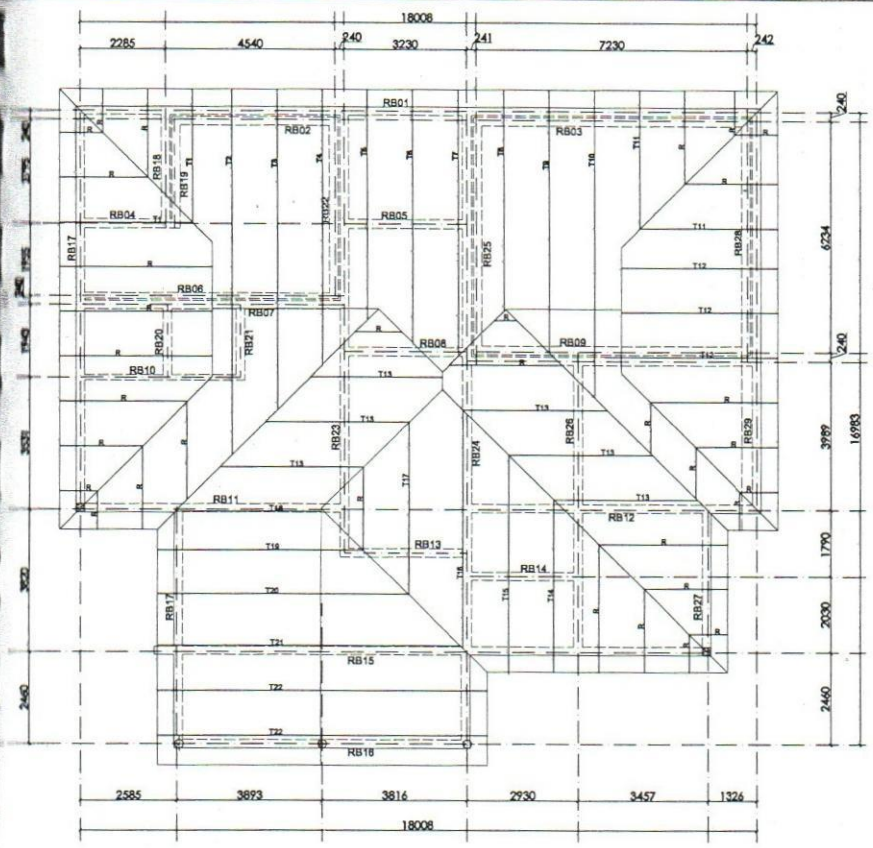
Job No: CF/ORCT/MoH/21

Client:
MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

Project:
PROPOSED X-RAY AND CT SCAN BUILDING FOR REGIONAL REFERRAL HOSPITAL

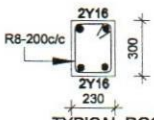
Drawing Title:
GROUND FLOOR PLAN AND SECTIONS

Designed by:	PONGA Z.S	Approved by:
Drawn by:	PONGA Z. S	CHM
Checked by:	A. MKTYA	
Scale:	1:100, 1:25	Drg No:
Date:	NOV. 2021	S02/06



ROOF LAYOUT PLAN

SCALE 1:100



TYPICAL ROOF BEAM SECTION

Scale 1:25

FIRST FLOOR BEAMS SCHEDULE		
TYPE	BEAM SIZE	NO
RB01	230X300	1
RB02	230X300	1
RB03	230X300	1
RB04	230X300	1
RB05	230X300	1
RB06	230X300	1
RB07	230X300	
RB08	230X300	1
RB09	230X300	1
RB10	230X300	1
RB11	230X300	1
RB12	230X300	1
RB13	230X300	1
RB14	230X300	1
RB15	230X300	1
RB16	230X300	1
RB17	230X300	1
RB18	230X300	1
RB19	230X300	1
RB20	230X300	1
RB21	230X300	1
RB22	230X300	1
RB23	230X300	1
RB24	230X300	1
RB25	230X300	1
RB26	230X300	1
RB27	230X300	1
RB28	230X300	1

SCALE:1:25

General Notes:
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERING DRAWINGS

No.	Revision/Issue	Date

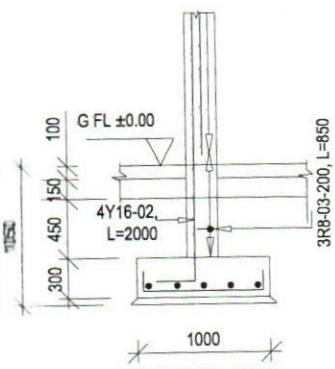
Job No: CF/ARCT/MoH/21

Client:
MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

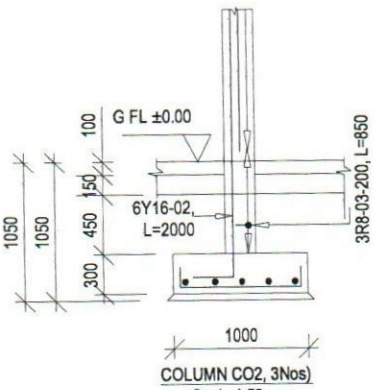
Project:
PROPOSED X-RAY AND CT SCAN BUILDING FOR REGIONAL REFERRAL HOSPITAL

Drawing Title:
ROOF PLAN

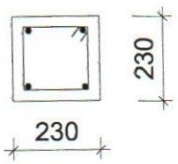
Designed by:	PONGA Z.S	Approved by:
Drawn by:	PONGA Z. S	
Checked by:	A. MKTYA	CHM
Scale:	1:100, 1:25	Drg No:
Date:	NOV. 2021	S02/06



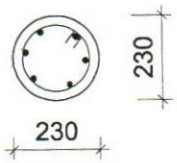
COLUMN CO1, 2Nos)
Scale 1:50



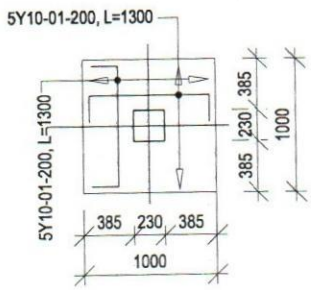
COLUMN CO2, 3Nos)
Scale 1:50



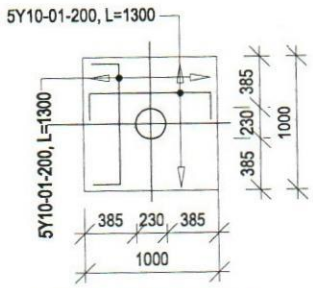
SECTION A-A
Scale 1:25



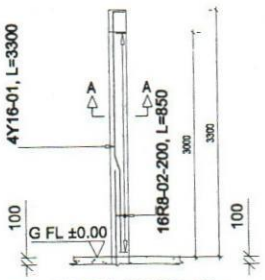
SECTION B-B
Scale 1:25



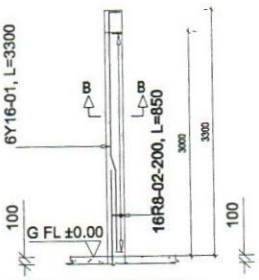
FOOTING F01 (1000X1000X300), 2Nos
Scale 1:50



FOOTING F01 (1000X1000X300), 3Nos
Scale 1:50



COLUMN C01, 230x230, 2Nos
Scale 1:75



COLUMN C02, 230Ø, 3Nos
Scale 1:75

General Notes:

No.	Revision/Issue	Date

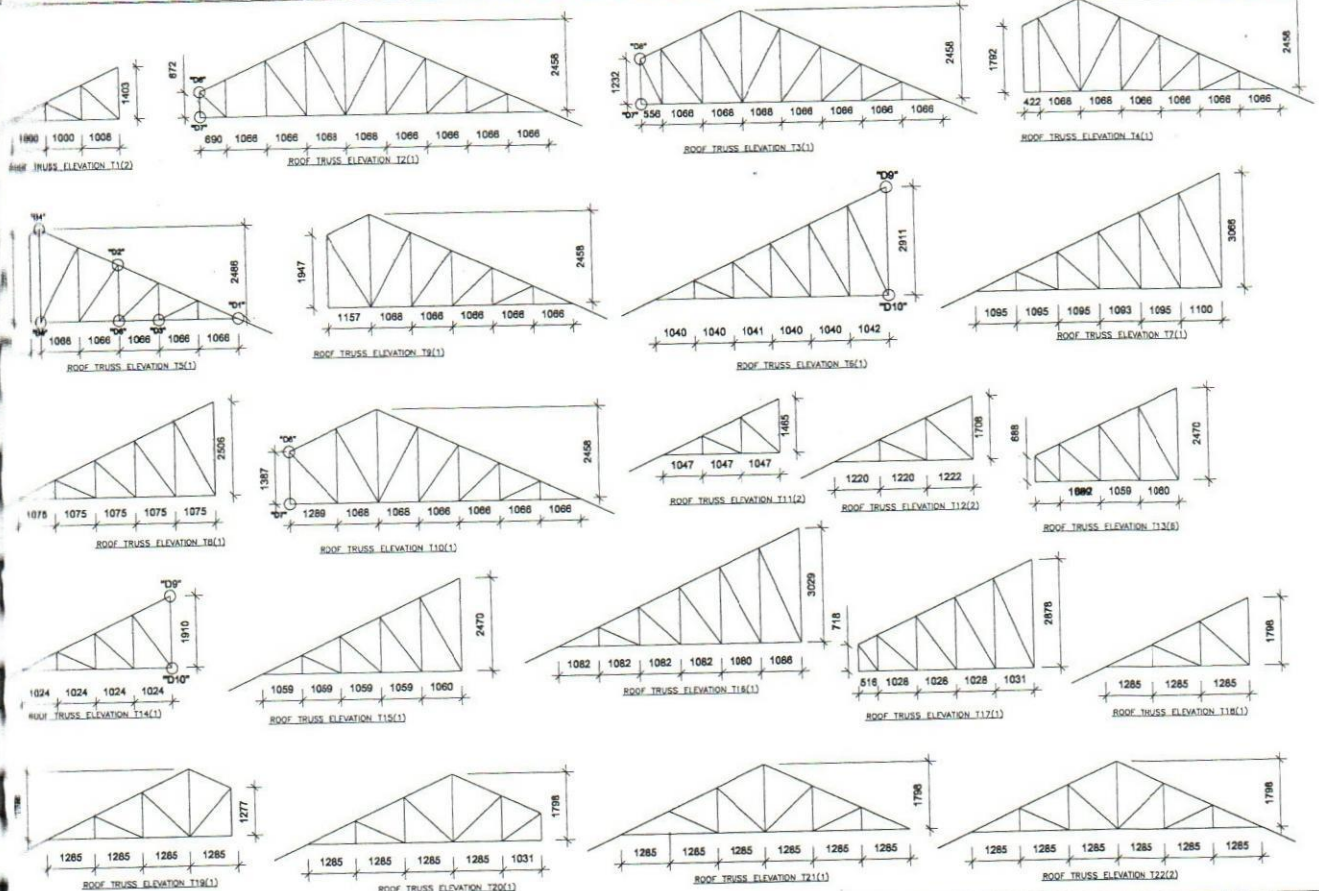
Job No: CF/WRCT/MoH/21

Client:
MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

Project:
PROPOSED X-RAY AND CT SCAN BUILDING FOR REGIONAL REFERRAL HOSPITAL

Drawing Title:
COLUMN FOOTINGS
RC DETAILS

Designed by:	FONGA Z. S.	Approved by:	
Drawn by:	FONGA Z. S.	CHH	
Checked by:	A. MKHOTYA	Drg No:	
Scale:	1:50		
Date:	NOV. 2021	S04/06	



General Notes:
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERING DRAWINGS

No.	Revision/Issue	Date

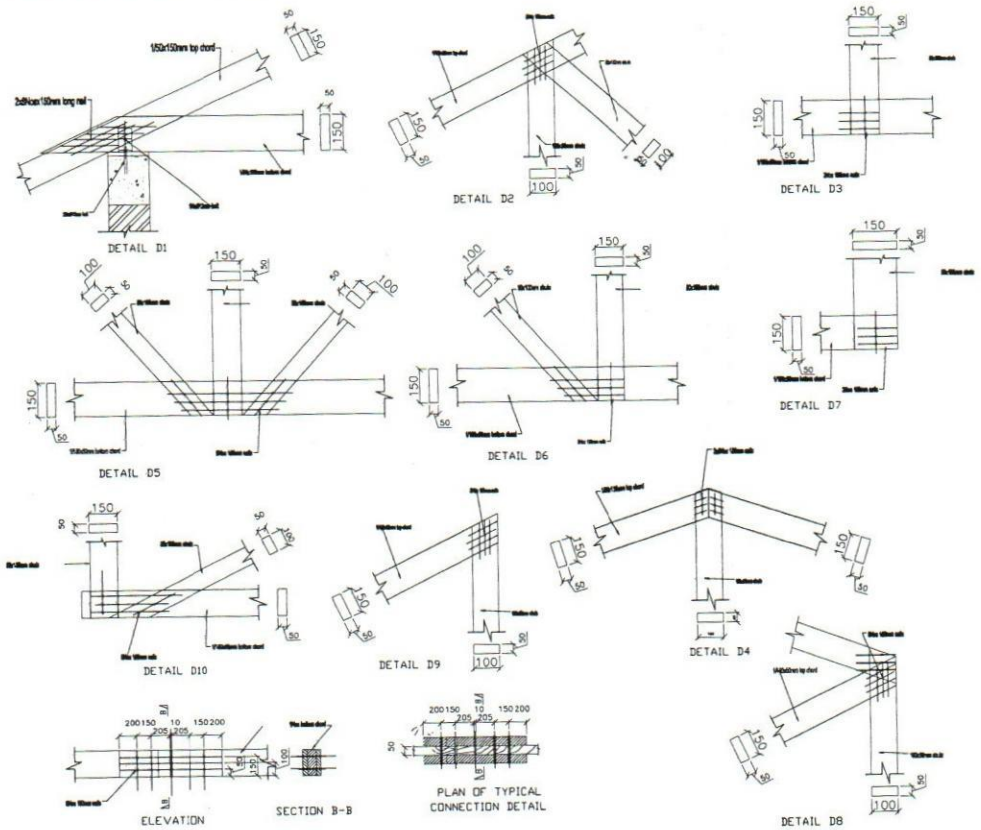
Job No: CF/XRCT/MoH/21

Client:
MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

Project:
PROPOSED X-RAY AND CT SCAN BUILDING FOR REGIONAL REFERRAL HOSPITAL

Drawing Title:
ROOF TRUSS ELEVATIONS

Designed by:	PONGA Z.S	Approved by:	
Drawn by:	PONGA Z. S		
Checked by:	A. MKIYA	CHM	
Scale:	1:100, 1:25	Drg No:	
Date:	NOV. 2021	305/06	



General Notes:
1. DRAWING SHALL BE
2. IN CONJUNCTION
3. ARCHITECTURAL AND
4. ENGINEERING

No.	Revision/Issue	Date

Job No: CF/KRCT/MoH/21

Client:
MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN

Project:
PROPOSED X-RAY AND CT SCAN BUILDING FOR REGIONAL REFERRAL HOSPITAL

Drawing Title:
TRUSS CONNECTION DETAILS

Designed by:	FONGA Z. S.	Approved by:	CHH
Drawn by:	FONGA Z. S.		
Checked by:	A. MKOTYA	Drg No:	S06/06
Scale:	1:75		
Date:	NOV. 2021		

PROPOSED CONSTRUCTION X-RAY AND CT-SCAN BLOCK

LIST OF ELECTRICAL DRAWINGS

S/No.	DESCRIPTION	DRAWING No.	DATE/REV.
1.	LIST OF ELECTRICAL DRAWINGS	DK/X-RAY & CT-SCAN /ELE/00	NOV, 2021
2	LIST OF ELECTRICAL LEGEND	DK/X-RAY & CT-SCAN /ELE/01	NOV, 2021
3	FLOOR LIGHTING LAYOUT	DK/X-RAY & CT-SCAN /ELE/02	NOV, 2021
4	FLOOR POWER AND ICT LAYOUT	DK/X-RAY & CT-SCAN /ELE/03	NOV, 2021
5	FLOOR DISTRIBUTION BOARD	DK/X-RAY & CT-SCAN /ELE/04	NOV, 2021

No.	DATE	APPROVAL	DESCRIPTION

- ☐ FOR TENDER
- ☐ FOR INFORMATION
- ☐ FOR BUILDING PERMIT
- ☐ FOR APPROVAL
- ☐ FOR CONSTRUCTION

PROJECT

PROPOSED CONSTRUCTION OF X-RAY & CT-SCAN BLOCK

CLIENT

THE MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN (MoHCDEC)
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Web: www.moh.go.tz

DRAWING TITLE

LIST OF ELECTRICAL DRAWINGS

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV,2021	DOROTH	DOROTH	E.M

Drawing Number: DK/ X-RAY & CT-SCAN/ELE/00

ELECTRICAL LEGEND AND GENERAL NOTES

	ELECTRICAL LEGEND	MOUNTING HEIGHT(m m)
1.	LIGHTING TYPE A: CEILING SURFACE MOUNTED LIVE LIGHT WITH FLOURESCENT 2X18W LED ECOMAX T8 BATTERN).PRODUCT NO: LED-E-T8-1200MM-18W-3000L-CT BY OPPLE TYPE OR APPROVED EQUIVALENT	CEILING
2.	LIGHTING TYPE B:CEILING SURFACE MOUNTED LINE LIGHT WITH FLOURESCENT 18/18W LED ECOMAX T8 BATTERN).PRODUCT NO: LED-E-T8-1200MM-18W-3000L-CT BY OPPLE TYPE OR APPROVED EQUIVALENT	CEILING
3.	LIGHTING TYPE C: SURFACE MOUNTED DOWNLIGHT DECORATIVE BULKHEAD FITTING FOR LED SURFACE/WALL WITH PRODUCT NO:HC 420 22W 5700K WHITE BY OPPLE TYPE OR APPROVED EQUIVALENT	CEILING/WALL
4.	LIGHTING TYPE D: SURFACE MOUNTED DOWNLIGHT DECORATIVE BULKHEAD FITTING FOR LED SURFACE/WALL WITH PRODUCT NO:HC 420 23W 5700K WHITE BY OPPLE TYPE OR APPROVED EQUIVALENT	WALL 350 BOFL
5.	LIGHTING TYPE D: SURFACE MOUNTED DOWNLIGHT DECORATIVE BULKHEAD FITTING FOR LED SURFACE/WALL WITH PRODUCT NO:HC 420 23W 5700K WHITE BY OPPLE TYPE OR APPROVED EQUIVALENT	CEILING
6.	LIGHTING TYPE E: SURFACE MOUNTED DOWNLIGHT DECORATIVE BULKHEAD FITTING FOR LED SURFACE/WALL WITH PRODUCT NO:HC 480 22W 5700K STAR DIAMOND BY OPPLE TYPE OR APPROVED EQUIVALENT	CEILING
7.	LIGHTING TYPE F: JUPITER WALL LIGHT STAINLESS STEEL LIGHT WITH WHITE POLYCARBONATE DIFFUSER IP65 RATED RECOMMENDED FOR USE WITH MAX 11W SCREW GLS BULB COMPLETE WITH LAMP BY OPPLE TYPE OR APPROVED EQUIVALENT	WALL
8.	LIGHT SWITCH, 16A ONE WAY, ONE GANG FLUSH	1400 AFFL/BED SWITCH750
9.	LIGHT SWITCH, 16A ONE WAY, TWO GANG FLUSH	1400 AFFL/BED SWITCH750
10.	LIGHT SWITCH, 16A TWO WAY, ONE/TWO GANG FLUSH MOULDED PLASTIC	1400 AFFL/BED SWITCH750
11.	AIR CONDITIONER SWITCH,20A DP WITH NEON LAMP AND MARK "AIR CONDITIONER" MEM LIST	1400 AFFL/CEILING
12.	20A DP WITH NEON INDICATOR FOR HAND DRIER	1400 AFFL
13.	SOCKET OUTLET, 13A 1WAY, SWITCHED, FLUSH MOULDED PLASTIC	350 AFFL
14.	COOKER CONTROL UNIT,45A DP SWITCHED WITH NEON LAMP AND INTEGRAL 13A SWITCH SOCKET OUTLET FLUSH AS CHART NEED	250 AMP
15.	DB DISTRIBUTION BOARD AS SPECIFIED IN SCHEMATIC DRAWINGS	2000 OR AS DECIDED ON SITE
16.	MDB MAIN DISTRIBUTION BOARD AS SPECIFIED IN SCHEMATIC DRAWINGS	WALL OR AS DECIDED ON SITE
17.	DUAL RJ45 VOICE OUTLET POINT	350 AFFL
18.	36 inches ceiling fan	
19.	Ceiling fan regulator	
20.	ISOLATOR	

GENERAL NOTES:

1. THE ELECTRICAL INSTALLATIONS SHALL COMPLY WITH IEE WIRING REGULATIONS 17th EDITION BS 7671:2008 WITH CURRENT AMMENDMENTS AND GOVERNMENT LAWS, BY LAWS AND REGULATIONS
2. THE INTERNAL INSTALLATIONS SHALL BE CARRIED OUT USING PVC INSULATED COPPER CABLES DRAWN INTO CONCEALED CONDUITS, CABLE TRAYS, TRUNKING AND DUCTS
3. SOCKET OUTLET, TV OUTLETS AND TELEPHONE POINTS SHALL BE MOUNTED AT 300mm AFFL.
4. ALL WIRING ACCESSORRIES SHALL BE MOUNTED ON PVC BOXES i.e STEEL BOXES ARE NOT ACCEPTABLE.
5. DP SWITCHES AND LIGHTING SWITCHES SHALL BE MOUNTED AT 1400mm AFFL
6. EACH AC SHALL HAVE A 20A DP SWITCH MOUNTED CLOSE TO THE INDOOR UNIT AT LEAST 1.4M ABOVE THE FLOOR LEVEL.
7. THE NUMBER OF EARTH RODS TO BE DETERMINED BY SOIL RESISTIVITY SUCH THAT CONSUMER EARTH ELECTRODE RESISTANCE SHALL NOT EXCEED 2 OHMS
8. DISTRIBUTION BOARDS/CONSUMER UNIT SHALL BE INSTALLED AT 2000mm AFFL.
9. ALL MCB'S, SWITCH SOCKET OUTLETS, DP SWITCHES AND LIGHT SWITCHES SHALL BE CLEARLY MARKED TO INDICATE THE CIRCUIT NUMBERS AS SHOWN IN DRAWINGS
10. ALL LIGHTING FITTINGS SHALL BE SUPPLIED COMPLETE WITH LAMPS OF CORRECT WATTAGE.
11. THE SENSITIVITY OF THE RCD SHALL BE AS PER SPECIFICATIONS. ANY OTHER RATING OTHER THAN THOSE SPECIFIED SHALL NOT BE ACCEPTED.
12. NO MORE THAN ONE SUB-CIRCUIT CABLES SHALL BE INSTALLED IN ONE CONDUIT
13. SWICTHES OF DIFFERENT SUB CIRCUITS SHALL BE MOUNTED ON THEIR OWN BOXES EXCEPT FOR GRID SWITCHES
14. ALL ELECTRICAL MATERIAL OTHER THAN THOSE SPECIFIED SHALL BE SUBJECTED TO APPROVAL PRIOR TO PURCHASE/INSTALLATION.
15. THE CONNECTION LINES FOR RING CIRCUITS AND LIGHTING POINTS ARE FOR GUIDANCE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT CONNECTION LINES TAKING INTO ACCOUNT THE TRUNKING/CONDUIT ROUTES ADAPTED
16. ALL TV OUTLETS INTERLINKED WITH 25mm DIAMETER PVC CONDUIT ORIGINATING FROM A 32mm DIAMETER DOWN PIPE FROM ROOR SLAB.

No.	REV. DATE	APPROVAL	DESCRIPTION

PURPOSE

- [ ] FOR TENDER
- [ ] FOR INFORMATION
- [ ] FOR BUILDING PERMIT
- [ ] FOR APPROVAL
- [ ] FOR CONSTRUCTION

PROJECT

PROPOSED CONSTRUCTION OF X-RAY & CT-SCAN BLOCK

CLIENT

THE MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN (MoHCDEC)
Mji wa Serikali Mtumba,
P.O BOX 743, 40478
DODOMA.
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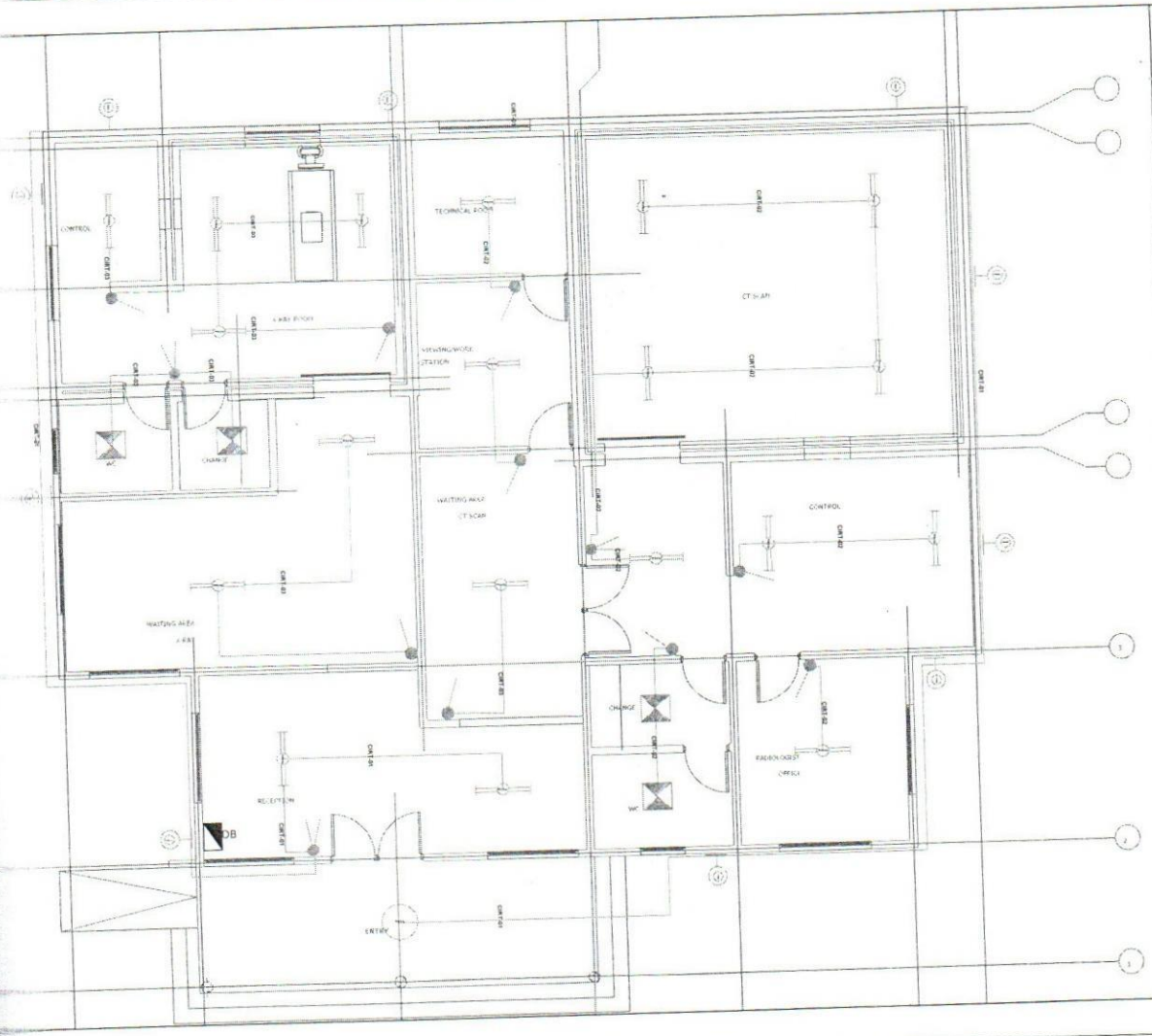
Web: www.moh.go.tz

DRAWING TITLE

LIST OF ELECTRICAL LEGEND

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2021	DOROTH	DOROTH	E.M

Drawing Number : DW X-RAY & CT-SCAN/ELE/01



FOR TENDER

FOR INFORMATION

FOR BUILDING PERMIT

FOR APPROVAL

FOR CONSTRUCTION

PROJECT

PROPOSED CONSTRUCTION OF X-RAY & CT-SCAN BLOCK

CLIENT

THE MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN (MoHCDEC)
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Web: www.moh.go.tz

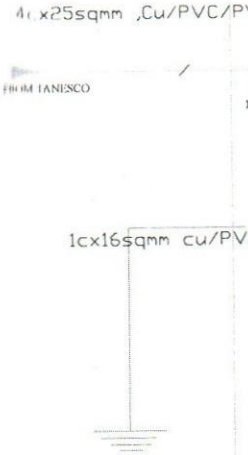
DRAWING TITLE

FLOOR LIGHTING LAYOUT

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV.2017	DOROTH	DOROTH	E.M

Drawing Number: DKU X-RAY & CT-SCANE.LE/01

FLOOR DISTRIBUTION BOARD SCHEMATICS



WAY NO.	PHASE	MCB RATING (A)	CABLE SIZE (MM)		R(W)	Y(W)	B(W)
1.	R	10	1.5	CIRT-01 LIGHTING	420		
	Y	10	1.5	CIRT-02 LIGHTING		648	
	B	10	1.5	CIRT-03 LIGHTING			648
2.	R	32	2.5	CIRT-04 S/SOCKETS,RING	2400		
	Y	32	2.5	CIRT-05 S/SOCKETS,RING		2400	
	B	20	2.5	SPARE			
3.	R	45	6	CIRT-06 ISOLATOR			
	Y					3000	
	B						
4.	R	45	6	CIRT-07 ISOLATOR			
	Y					3000	
	B						
5.	R	20	2.5	CIRT-08 20A DP FOR H/D	1000		
	Y	20	2.5	CIRT-09 20A DP FOR H/D		1000	
	B	20	2.5	CIRT-10 20A DP FOR A/C			1800
6.	R	20	2.5	CIRT-11 20A DP FOR A/C	1800		
	Y	20	2.5	CIRT-12 20A DP FOR A/C		1800	
	B	20	2.5	CIRT-13 20A DP FOR A/C			1800
7.	R	20	2.5	CIRT-14 20A DP FOR A/C	1800		
	Y	20	2.5	CIRT-15 20A DP FOR A/C		1800	
	B	20	2.5	CIRT-16 20A DP FOR A/C			1800
8	R	20	2.5	CIRT-17 20A DP FOR A/C	1800		
	Y	20	2.5	CIRT-18 20A DP FOR A/C		1800	
	B	20	2.5	CIRT-19 20A DP FOR A/C			1800
9	R	20	2.5	CIRT-20 20A DP FOR A/C			
	Y	20		SPARE	1800		
	B	32		SPARE			
10	R	10		SPARE			
	Y	10		SPARE			
	B	32		SPARE			
					14,020	14,248	11,848
				TOTAL LOAD CONNECTED(W)	40,116		

SPECIFICATIONS

10-WAY TPN DISTRIBUTION BOARD, WITH INTEGRAL 100A/300mA MCCB INCOMER AND FINAL CIRCUIT MCB'S AS SPECIFIED, ABB TYPE OR APPROVED EQUIL.

No.	REV.	DATE	APPROVAL	DESCRIPTION

STATUS

- [ ] FOR TENDER
- [ ] FOR INFORMATION
- [ ] FOR BUILDING PERMIT
- [ ] FOR APPROVAL
- [ ] FOR CONSTRUCTION

PROJECT

PROPOSED CONSTRUCTION OF X-RAY & CT-SCAN BLOCK

CLIENT

THE MINISTRY OF HEALTH, COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN (MoHCDEC)
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DRAWING TITLE

GROUND FLOOR DISTRIBUTION BOARD SCHEMATIC

SCALE	DATE	DRAWN	DESIGN	CHECKED
NTS	NOV 2021	DOROTH	DOROTH	E.M

Drawing Number: DH/X-RAY & CT-SCAN/ELE/04