GOVERNMENT OF MEGHALAYA

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MEGHALAYA HEALTH SYSTEM STRENGTHENING PROJECT (MHSSP)

OFFICE OF THE EXECUTIVE ENGINEER,
HEALTH ENGINEERING WING,
DIRECTORATE OF HEALTH SERVICES,
MEGHALAYA, SHILLONG

NAME OF WORK: Extension of Labour Room in Khliehtyrshi PHC, West Jaintia Hills District, under Directorate of Health Services, Health & Family Welfare Department, Government of Meghalaya

Sr. Medical & Health Officer, West Jaintia Hills, Jowai.

PROJECT : ***EXTENSION OF LABOUR ROOM, KHLIEHTYRSHI PHC, WEST JAINTIA HILLS DISTRICT***	*DATE:* 13/02/2021 *SCALE-*NTS *ALL DIMENSIONS ARE IN MM OR OTHERWISE MENTIONED. DRAWINGS ARE MEANT TO BE READ ONLY.* *DWG NO.:* 07/03/WJHills/Khliehtyrshi/Arch/01-A	***CONTENT:*** SITE PLAN	PREPARED BY: JUNIOR ENGINEER HEW WEST JAINTIA HILLS DISTRICT SMT. LAMSUK NONGTDU JUNIOR ENGINEER MHSSP WEST JAINTIA HILLS DISTRICT	COUNTERSIGNED BY: DOCTOR INCHARGE HEALTH FACILITY, WEST JAINTIA HILLS DISTRICT SDO HEALTH ENGINEERING WING, WEST JAINTIA HILLS DISTRICT	APPROVED BY: EXECUTIVE ENGINEER, HEALTH ENGINEERING WING, SHILLONG.

Sr. Medical & Health Officer
HC Khliehtyrshi PHC

N

TILES SHOULD BE UPTO THE CEILING LEVEL

PLINTH AREA OR BUILT UP AREA
GROUND FLOOR AREA =62 sqm

SCHEDULE OF DOORS				
TYPE	WIDTH	HEIGHT	GROUND FL. (nos)	MATERIALS
D1	1500	2100	02	ALLUMINIUM HALF GLASS PANEL
D2	900	2100	03	ALLUMINIUM HALF GLASS PANEL
D2A	900	2100	01	ALLUMINIUM FULL PANEL
D3	750	2100	05	ALLUMINIUM FULL PANEL
D4	900	2100	02	SLIDING ALUMINIUM HALF GLASS PANEL

SCHEDULE OF WINDOWS & VENTILATORS				
TYPE	WIDTH	HEIGHT	SILL	GROUND FL. (nos)
W1	2000	1500	900	02
W2	1000	1500	900	06
W3	800	1500	900	01
TYPE	WIDTH	HEIGHT	SILL	GROUND FL. (nos)
V1	800	500	2000	03
			TOTAL	12

PROJECT :

EXTENSION OF LABOUR ROOM,
KHLIEHTYRSHI PHC,
WEST JAINTIA HILLS DISTRICT

DATE: 13/02/2021

CONTENT:
FLOOR PLAN

SCALE-NTS

ALL DIMENSIONS ARE IN MM OR OTHERWISE MENTIONED.
DRAWINGS ARE MEANT TO BE READ ONLY.

DWG NO.: 07/03/WJHills/Khliehtyrshi/Arch/01

PREPARED BY:

JUNIOR ENGINEER
HEW
WEST JAINTIA HILLS
DISTRICT

SMT. LAMSUK NONGTDU
JUNIOR ENGINEER
MHSSP
WEST JAINTIA HILLS
DISTRICT

COUNTERSIGNED BY:

DOCTOR INCHARGE
HEALTH FACILITY,
WEST JAINTIA HILLS
DISTRICT

Sr. Medical & Health Officer
I/C Khliehtyrshi PHC

SDO
HEALTH ENGINEERING WING,
WEST JAINTIA HILLS
DISTRICT

APPROVED BY:

EXECUTIVE ENGINEER,
HEALTH ENGINEERING WING,
SHILLONG.

District Medical & Health Officer,
West Jaintia Hills, Jowai

SECTION

SECTION A-A'

ELEVATION

NORTH

WEST

District Medical & Health Officer
West Jaintia Hills, Jowai.

PROJECT :	*DATE:* 22/02/2021	***CONTENT:*** SECTION AND ELEVATION	PREPARED BY:		COUNTERSIGNED BY:	
EXTENSION OF LABOUR ROOM, KHLIEHTYRSHI PHC, WEST JAINTIA HILLS DISTRICT	*SCALE-NTS*		JUNIOR ENGINEER HEW WEST JAINTIA HILLS DISTRICT	SMT. LAMSUK NONGTDU JUNIOR ENGINEER MHSSP WEST JAINTIA HILLS DISTRICT	DOCTOR INCHARGE HEALTH FACILITY, WEST JAINTIA HILLS DISTRICT	SDO HEALTH ENGINEERING WING, WEST JAINTIA HILLS DISTRICT
	ALL DIMENSIONS ARE IN MM OR OTHERWISE MENTIONED. DRAWINGS ARE MEANT TO BE READ ONLY.					EXECUTIVE ENGINEER, HEALTH ENGINEERING WING, SHILLONG.
	DWG NO.: 07/03/WJHills/Khliehtyrshi/Arch/02				Sr. Medical & Health Officer I/C Khliehtyrshi PHC	

TYPICAL FOOTING

PLAN OF FOOTING

SECTION OF FOOTING

FOUNDATION AND COLUMN LAYOUT

SECTION OF PLINTH WALL

FOUNDATION TABLE

FOOTING NAME	LENGTH (mm)	BREADTH (mm)	EDGE DEPTH, d (mm)	CENTRAL DEPTH, D (mm)	REINFORCEMENT	
					X- Direction	Y- Direction
F1	1500	1500	300	600	12mm Ø @ 130 mm c/c	12mm Ø @ 130 mm c/c
F2	1000	1000	300	600	12mm Ø @ 130 mm c/c	12mm Ø @ 130 mm c/c

DETAILS OF COLUMN
(300 x 300)mm

Provide 8mm dia stirrups
@ 100mmc/c at support
and provide 8mm dia stirrups
@ 150mm c/c at midspan

TYPICAL STIRRUP DETAILING IN COLUMN

TIE BEAM LAYOUT

SECTION OF TIE BEAM

SECTION AT
SUPPORT & MID-SPAN

NOTES:

- STRUCTURAL DRAWING SHOULD BE READ IN CONJUNTION WITH ARCHITECHTURAL DRAWING.
- ALL DIMENSIONARE IN MILLIMETER UNLESS INDICATED OTHERWISE.
- STRUCTURE DRAWING ARE NOT TO BE SCALED.
- SLAB AND BEAM SHOULD BE CASTED MONOLITHICALLY.

GENERAL SPECIFICATION:

- CONCRETE 1:1.5:3 (M20) HAS BEEN USED FOR ALL STRUCTURAL MEMBERS.
- STEEL USED IS TOR STEEL (FY= 415 N / SqMM FOR ALL BARS.
- COVER TO REIMFORCEMENT:-
  SLAB = 20 MM BEAM = 25MM
  COLUMN = 40 MM FOOTING = 50 MM
- SAFE BEARING CAPACITY OF SOIL HAS BEEN ASSUMED AS 150 KN/m2 .
- MINIMUM DEPTH OF FOUNDATION(Df) IS CONSIDERED AT A DEPTH OF 2.00 M BELOW GROUND LEVEL AND MAY BE INCREASED WITH UNSATISFACTORILY SOIL CONDITION.
- DEVELOPMENT LENGTH OF BARS IS 50 D, WHERE D IS THE BAR DIAMETER .
- LAPPING AT SUPPORT OR NEARER TO THE END LAPPING AT MIDSPAN OR NEARER TO THE MIDSPAN SHALL BE AVOIDED.
- FOUNDATION HAS BEEN DESIGN FOR G+3 STOREYED STRUCTURE ONLY.

CERTIFIED THAT THE BUILDING HAS BEEN DESIGNED TAKEN INTO ACCOUNT THE SEISMIC FACTOR OF ZONE ,i.e ZONE V

District Medical & Health Officer
West Jaintia Hills, Jowai

PROJECT :	DATE: 22/02/2021	CONTENT: STRUCTURAL DRAWINGS	PREPARED BY:		COUNTERSIGNED BY:	APPROVED BY:
EXTENSION OF LABOUR ROOM, KHLIEHTYRSHI PHC, WEST JAINTIA HILLS DISTRICT	SCALE-NTS		JUNIOR ENGINEER HEW WEST JAINTIA HILLS DISTRICT	SMT. LAMSUK NONGTDU JUNIOR ENGINEER MHSSP WEST JAINTIA HILLS DISTRICT	SDO HEALTH ENGINEERING WING, WEST JAINTIA HILLS DISTRICT	EXECUTIVE ENGINEER, HEALTH ENGINEERING WING, SHILLONG.
	DWGNO.: 07/03/WJHills/Khliehtyrshi/Struct/01					
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Provide Stirrups 8mm Ø @ 100mm c/c at support and 8mm Ø @ 150mm c/c at midspan

SIZE OF BEAM IS (250 x 300)mm

TYPICAL STIRRUPS SPACING IN BEAMS

TYPICAL LAYOUT OF ROOF BEAMS & SLAB

SLAB REINFORCEMENT

SLAB NAME	THICKNESS (mm)	MAIN BAR				DISTRIBUTION BAR			
		AT MIDSPAN		AT SUPPORT		AT MIDSPAN		AT SUPPORT	
		TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM
RCC SLAB	120	NIL	10mmØ @130mmC/C	10mmØ @130mmC/C	10mmØ @260mmC/C	NIL	10mmØ @130mmC/C	10mmØ @130mmC/C	10mmØ @260mmC/C

PLAN OF SLAB

SECTION OF SLAB

District Medical & Health Officer
West Jaintia Hills, Jowai

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PROJECT :	DATE: 22/02/2021	CONTENT:	PREPARED BY:		COUNTERSIGNED BY:	APPROVED BY:
EXTENSION OF LABOUR ROOM, KHLIEHTYRSHI PHC, WEST JAINTIA HILLS DISTRICT	SCALE-NTS	STRUCTURAL DRAWINGS	JUNIOR ENGINEER HEW WEST JAINTIA HILLS DISTRICT	SMT. LAMSUK NONGTDU JUNIOR ENGINEER MHSSP WEST JAINTIA HILLS DISTRICT	SDO HEALTH ENGINEERING WING, WEST JAINTIA HILLS DISTRICT	EXECUTIVE ENGINEER, HEALTH ENGINEERING WING, SHILLONG.
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