



BASQUE TEAM PLUMBING CHALLENGE INDIA 2015

MATERIALS & BUDGET EST.



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LH-RAKO IKERKETA ETA BERRIKUNTZA APLIKATURAKO ZENTROA
CENTRO DE INVESTIGACIÓN E INNOVACIÓN APLICADA PARA LA FP
CENTRE FOR INVESTIGATION AND APPLIED INNOVATION IN VET

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DOCUMENT DESCRIPTION

Community Plumbing Challenge 2015

This document includes the list of necessary materials and tools for the development of our proposal for "Full design solution for a new Handwashing facility at School 125, Mukti Dham, Nashik", according to the Brief #1

Despite not all the prizes have been detailed, the estimated total amount for this list of materials and tools is of :
1595,24€ (118253,45 INR)

More information about our proposal will be included in our proposal next 23th October.

MASONRY TOOLS



MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
HAMMER	2 Units			
CHISEL	2 Units			
RUBBER PAIL	4 Units			
LEVEL	4 Units			
PLAIN TROWEL	4 Units			
PLAIN PLASTERING TROWEL	3 Units			
CARPENTER'S SQUARE	2 Units			
GAUGE ROD	6 Units			
FLEXOMETER	4 Units			
CARPENTER'S PENCIL	4 Units			
NYLON BRICKLAYER LINE	8 Units		524,7	7,08
42,5R CEMENT	79,5 Kg	6,6	231,75	3,13
CONCRETE SAND	5,15 ft ³	45		
WATER	104 Ltrs			
BRICK	300 Units	4,5	1350	18,21

MASONRY TOOLS



MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
BIG FORMAT BRICK (800X300X40)	20 Units	15		4,05
20 X 30 TILE	220 ft ²	18	3960	53,42
DOOR SUB-FRAME	1 Unit			
CONCRETE MIXER	1 Unit			
STEEL BAR 4mm	8 m			
IRON MESH	7m ²			
WOOD FOR FORMWORK	5m ²			
TILE CUTTER	2 Units			
DRILL	1 Unit			
CROWN FOR DRILL	1 Unit			
SMALL GRAVEL	1,5 ft ³			
FORMWORK CLAMP	6 Units			
TILE GROUT	3Kg			
PLAIN GROUTING TROWEL	2 Units			
TILE ADHESIVE	75Kg	25	1875	25,29

MASONRY MATERIAL



MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
SHOVEL	2 Units			
WHEEL BARROW	2 Units			
TROWEL	4 Units			
MORTAR CEMENT	10,07 ft³			
HAND SAW	2 Units			
PVC PIPE	0,3m	40	12	0,16
DOOR	1 Unit			
PAINT	10 Ltr			
PAINT ROLLER	4 Units			
TRIANGLE SPATULA	4 Units			
CERAMIC EDGE TRIM INSIDE CORNER	50m			
TOTAL			8253,45	111

MASONRY MATERIAL

MATERIAL	QTY.	COST/UT	TOTAL	
			RUPIAH	EURO
42,5R CEMENT	79,5Kg	6,60	524,7	7,08
CONCRETE SAND	5,15 ft ³	45,00	231,75	3,13
BRICK	300 Units	4,50	1350	18,21
BIG FORMATBRICK (800X300X40)	20 Units	15,00	300	4,05
20X 30 TILE	220ft ²	18,00	3960	53,42
DOOR SUB-FRAME	1 Unit			
STEEL BAR 4MM	8m			
IRON MESH	7m ²			
WOOD FOR FORMWORK	5m ²			
SMALL GRAVEL	1,5ft ³			
TILE ADHESIVE	75Kg	25,00	1875	25,29
DOOR	1 Unit			
PAINT	10 Ltr			
CERAMIC EDGE TRIM INSIDE CORNER	50m			
TOTAL			8241,45	111,18

PLUMBING MATERIAL



MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
PIPES				
GI PIPE 1 "[C" CLASS]: PRAKASH SURYA	70m 230ft	70,98	16325,4	223,65
GI PIPE ½ "[C" CLASS]: PRAKASH SURYA	10m 33ft	35,49	1171,17	16,04
PLUMBING ACCESORIES				
GI ELBOW 1" [H]	50 Units	58,8	2940	40,27
GI ELBOW ½" [H]	10 Units	29,4	294	4,02
GI COUPLING 1"	30 Units	30,46	913,8	12,51
GI COUPLING ½"	20 Units	15,23	304,6	4,17
GI PLUG ½"	10 Units	8,4	84	1,15
GI PLUG ½"	10 Units	4,2	42	0,57
GI TEE 1"	25 Units	53,68	1342	18,38
GI TEE ½"	10 Units	26,84	268,4	3,67
GI CROSS 1"	15 Units			
GI CROSS 1/2"	10 Units			
GI UNION 1"	20 Units	100,6	2012	27,56
GI UNION ½"	15 Units	50,3	754,5	10,33

PLUMBING MATERIAL

MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
1" - 1/2" GALVANIZED REDUCING BUSH	25 Units			
1" - 1/2" Galvanized Hex Nipple	25 Units			12,94
1" - 1/2" Reducing Coupling Fitting	25 Units			
1" BSP GALVANIZED BARREL NIPPLE	30 Units			
1/2" BSP GALVANIZED BARREL NIPPLE	10 Units			
GI TANK NIPPLE 1"	10 Units	94,5	945	12,94
GI TANK NIPPLE 1/2"		47,25		
1" WALL MOUNT PIPE CLAMP	100 Units			
1/2" WALL MOUNT PIPE CLAMP	25 Units			
APROPIATED FIXING PLUG AND LAGS				
VALVES & ACCESSORIES				
BALL VALVE 1"	12 Units			
BALL VALVE 1/2"				
FLOAT VALVE 1"	4 Units	500	2000	27,4
WATER METER 1"	1 Units			
1" BRASS FILTER FOR WATER PIPE	1 Units			

PLUMBING MATERIAL



MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
1" NON RETUR VALVE	1			
TEFLON TAPE (PTFE TAPE)	5			
HEMP FOR PLUMBING				
TAPS				
FORGED TAP	6			
SELF CLOSING TAP	16			
WASTE FITTINGS				
WASTE PIPE 1 1/4" [FLEXIBLE]	3	40	120	1,64
PVC WASTE PIPE RIDGID 1 1/4"	20			
WASTE COUPLING 1 1/4"	3	230	690	9,45
BOTTLE TRAP	3	800	2400	32,88
1 1/4 WHITE SOLVENT 90 TEE	5			
1 1/4 WHITE SOLVENT 67° TEE	5			
1 1/4 WHITE SOLVENT 45° TEE	5			
1 1/4 WHITE SOLVENT SWEPT 90 BEND	5			
1 1/4 WHITE SOLVENT SWEPT 45° BEND	5			

PLUMBING MATERIAL

MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
1 1/4 WHITE SOLVENT SWEPT 45 BEND	5			
1 1/4 WHITE SOLVENT 90 ELBOW	5			
1 1/4 WHITE SOLVENT 67 ELBOW	5			
1 1/4 WHITE SOLVENT 45 ELBOW	5			
PVC SOLVENT GLUE & CLEANER	2			
SLOW SAND FILTER & WATER TANKS				
Water tank Sintex 5000	1	33850	33850	463,745
Water tank Sintex 2000	1	12874	12874,3	176,37
WATER TANK SINTEX 500	1	3219	3218,57	44,09
CLEAN SAND	0,72 m ³ (0,5m)			
CLEAN GRAVEL	0,43 m ³ (0,3m)			

PLUMBING TOOLS

MATERIAL	QTY.	COST/UT	TOTAL RUPIAH	TOTAL EURO
PIPE THREADING SET 1" AND ½"	2			
CHAIN VICE	2			
HACK SAW	4			
STILSONS (PIPE WRENCH)	4			
HAMMER	2			
CHISEL	2			
SPANNER (SPECIFY)	4			
BOLSTER	2			
SCREWDRIVER SET	2			

SPECIAL REQUESTS:

Due to the short amount of time that its given to complete the proyect, it would be of great help to have (or rent) a portable electricity generator as well as the following powertools:

- 1 230 V Portable Genset
- 2 x Proper extension chords
- 2 x Electrical pipe threading set (for 1" & 1/2" pipes)
- 2 x Electric hammer Drills
- 2 x Masonry drill bit set
- 2 x General purpose twist bit set (for iron)
- 2 x Angle grinder with cutting disc for galvanized iron

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
MASONARY		1305mins	11/2/15 15:00 - 11/4/15 16:30
MATERIAL RECEPTION AND TESTING BEFORE INSTALATION		30 mins	11/2/15 15:00 - 11/2/15 15:30
OPEN DOOR APERTURE AND DOOR SUB-FRAME COLOCATION		60 mins	11/2/15 15:00 - 11/2/15 16:00
HAMMER	1 Unit		11/2/15 15:00 - 11/2/15 16:00
CHISER	1 Unit		11/2/15 15:00 - 11/2/15 16:00
LEVEL	1 Unit		11/2/15 15:00 - 11/2/15 16:00
FLEXOMETER	1 Unit		11/2/15 15:00 - 11/2/15 16:00
DOOR SUB-FRAME	1 Unit		11/2/15 15:00 - 11/2/15 16:00
ON-SITE LAYOUT		30 mins	11/2/15 15:00 - 11/2/15 15:30
CARPENTER'S SQUARE	2 Units		11/2/15 15:00 - 11/2/15 15:30
GAUGE ROD	4 Units		11/2/15 15:00 - 11/2/15 15:30
FLEXOMETER	2 Units		11/2/15 15:00 - 11/2/15 15:30
CARPENTER'S PENCIL	2 Units		11/2/15 15:00 - 11/2/15 15:30
NYLON BRICKLAYER LINE	2 Units		11/2/15 15:00 - 11/2/15 15:30
MORTAR CEMENT MIX		15 mins	11/2/15 15:00 - 11/2/15 15:15

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME	
RUBBER BRICKLAYER HOD	1 ud	15 mins	11/2/15 15:00	11/2/15 15:15
RUBBER PAIL	1 ud		11/2/15 15:00	11/2/15 15:15
42,5R CEMENT	27 kg.		11/2/15 15:00	11/2/15 15:15
CONCRETE SAND	2 ft3.		11/2/15 15:00	11/2/15 15:15
WATER	30 ltrs		11/2/15 15:00	11/2/15 15:15
CONCRETE MIXER	1 ud		11/2/15 15:00	11/2/15 15:15
SHOVEL	1 ud		11/2/15 15:00	11/2/15 15:15
WHEEL BARROW	1 ud		11/2/15 15:00	11/2/15 15:15
HAMMERING THE CONCRETE DECK TO PLACE THE SANITATION PIPE			11/2/15 15:00	11/2/15 15:15
HAMMER	1 ud	30 mins	11/2/15 15:15	11/2/15 15:45
CHISEL	1 ud		11/2/15 15:15	11/2/15 15:45
RUBBER PAIL	1 ud		11/2/15 15:15	11/2/15 15:45
TROWEL	1 ud		11/2/15 15:15	11/2/15 15:45

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
BRICKWORK (SUPPORT STRUCTURE)		150 mins	11/2/15 15:00 - 11/2/15 17:30
RUBBER BRICKLAYER HOD	3 ud		11/2/15 15:00 - 11/2/15 17:30
RUBBER PAIL	4 ud		11/2/15 15:00 - 11/2/15 17:30
LEVEL	2 ud		11/2/15 15:00 - 11/2/15 17:30
CARPENTER'S SQUARE	2 ud		11/2/15 15:00 - 11/2/15 17:30
GAUGE ROD	4 ud		11/2/15 15:00 - 11/2/15 17:30
FLEXOMETER	4 ud		11/2/15 15:00 - 11/2/15 17:30
CARPENTER'S PENCIL	4 ud		11/2/15 15:00 - 11/2/15 17:30
BRICK	200 ud		11/2/15 15:00 - 11/2/15 17:30
TROWEL	4 ud		11/2/15 15:00 - 11/2/15 17:30
MORTAR CEMENT	3,2 ft3.		11/2/15 15:00 - 11/2/15 17:30
BIG FORMAT BRICK COLOCATION		90 mins	11/2/15 16:30 - 11/2/15 18:00
LEVEL	2 ud		11/2/15 16:30 - 11/2/15 18:00
CARPENTER'S SQUARE	1 ud		11/2/15 16:30 - 11/2/15 18:00
FLEXOMETER	2 ud		11/2/15 16:30 - 11/2/15 18:00
BIG FORMAT BRICK (800x300x40)	20 ud		11/2/15 16:30 - 11/2/15 18:00
TROWEL	4 ud		11/2/15 16:30 - 11/2/15 18:00
MORTAR CEMENT	0,02 ft3		11/2/15 16:30 - 11/2/15 18:00

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
HOLES ON BIG FORMAT BRICK		10 mins	11/2/15 17:40
FLEXOMETER	1 Unit		11/2/15 17:40
CARPENTER'S PENCIL	1 Unit		11/2/15 17:40
BIG FORMAT BRICK (800x300x40)	1 Unit		11/2/15 17:40
DRILL	1 Unit		11/2/15 17:40
CROWN FOR DRILL	1 Unit		11/2/15 17:40
FORMWORK		45 mins	11/2/15 18:00
LEVEL	1 Unit		11/2/15 18:00
CARPENTER'S SQUARE	2 Unit		11/2/15 18:00
GAUGE ROD	1 Unit		11/2/15 18:00
CARPENTER'S PENCIL	2 Unit		11/2/15 18:00
WOOD FOR FORMWORK	5 m ²		11/2/15 18:00
FORMWORK CLAMP	6 Unit		11/2/15 18:00
HAND SAW	2 Unit		11/2/15 18:00

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
PLACE IRON MESH AND MARK OUT LEVEL OF CONCRETE		15 mins	11/2/15 18:45
LEVEL	2 Units		11/2/15 18:45
GAUGE ROD	2 Units		11/2/15 18:45
FLEXOMETER	2 Units		11/2/15 18:45
CARPENTER'S PENCIL	2 Units		11/2/15 18:45
NYLON BRICKLAYER LINE	4 Units		11/2/15 18:45
STEEL BAR 4mm	8 m		11/2/15 18:45
IRON MESH	7 m ²		11/2/15 18:45
PLACE PVC PIPES ON SINK BEFORE POURING THE CONCRETE		10 mins	11/2/15 18:45
FLEXOMETER	1 Unit		11/2/15 18:45
HAND SAW	1 Unit		11/2/15 18:45
PVC PIPE	0,3 m		11/2/15 18:45

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
MIX CONCRETE (with small gravel)		40 mins	11/2/15 18:45 - 11/2/15 19:25
RUBBER BRICKLAYER HOD	1 Unit		11/2/15 18:45 - 11/2/15 19:25
RUBBER PAIL	1 Unit		11/2/15 18:45 - 11/2/15 19:25
42,5R CEMENT	30 kg		11/2/15 18:45 - 11/2/15 19:25
CONCRETE SAND	1,5 ft ³		11/2/15 18:45 - 11/2/15 19:25
WATER	50 ltrs		11/2/15 18:45 - 11/2/15 19:25
CONCRETE MIXER	1 Unit		11/2/15 18:45 - 11/2/15 19:25
SMALL GRAVEL	1,5 ft ³		11/2/15 18:45 - 11/2/15 19:25
SHOVEL	1 Unit		11/2/15 18:45 - 11/2/15 19:25
WHEEL BARROW	1 Unit		11/2/15 18:45 - 11/2/15 19:25
TROWEL	1 Unit		11/2/15 18:45 - 11/2/15 19:25
POUR AND LEVEL THE CONCRETE		40 mins	11/2/15 19:00 - 11/2/15 19:40
RUBBER PAIL	2 Units		11/2/15 19:00 - 11/2/15 19:40
LEVEL	2 Units		11/2/15 19:00 - 11/2/15 19:40
PLAIN TROWEL	2 Units		11/2/15 19:00 - 11/2/15 19:40
GAUGE ROD	2 Units		11/2/15 19:00 - 11/2/15 19:40
SHOVEL	2 Units		11/2/15 19:00 - 11/2/15 19:40
TROWEL	2 Units		11/2/15 19:00 - 11/2/15 19:40
MORTAR CEMENT	4,2 ft ³		11/2/15 19:00 - 11/2/15 19:40

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
REMOVE FORMWORK		30 mins	11/3/15 9:00 - 11/3/15 9:30
TROWEL	4 Units		11/3/15 9:00 - 11/3/15 9:30
MORTAR CEMENT MIX		15 mins	11/3/15 9:00 - 11/3/15 9:15
RUBBER BRICKLAYER HOD	1 Units		11/3/15 9:00 - 11/3/15 9:15
RUBBER PAIL	1 Units		11/3/15 9:00 - 11/3/15 9:15
42,5R CEMENT	17 kg		11/3/15 9:00 - 11/3/15 9:15
CONCRETE SAND	1,25 ft ³		11/3/15 9:00 - 11/3/15 9:15
WATER	18 ltrs		11/3/15 9:00 - 11/3/15 9:15
CONCRETE MIXER	1 Unit		11/3/15 9:00 - 11/3/15 9:15
SHOVEL	1 Unit		11/3/15 9:00 - 11/3/15 9:15
WHEEL BARROW	1 Unit		11/3/15 9:00 - 11/3/15 9:15

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
BRICKWORK (sink perimeter and central wall)		120 mins	11/3/15 9:15 11/3/15 11:15
RUBBER BRICKLAYER HOD	2 Units		11/3/15 9:15 11/3/15 11:15
RUBBER PAIL	2 Units		11/3/15 9:15 11/3/15 11:15
LEVEL	4 Units		11/3/15 9:15 11/3/15 11:15
CARPENTER'S SQUARE	2 Units		11/3/15 9:15 11/3/15 11:15
GAUGE ROD	4 Units		11/3/15 9:15 11/3/15 11:15
FLEXOMETER	4 Units		11/3/15 9:15 11/3/15 11:15
CARPENTER'S PENCIL	4 Units		11/3/15 9:15 11/3/15 11:15
NYLON BRICKLAYER LINE	2 Units		11/3/15 9:15 11/3/15 11:15
BRICK	100 Units		11/3/15 9:15 11/3/15 11:15
TROWEL	4 Units		11/3/15 9:15 11/3/15 11:15
MORTAR CEMENT	2 ft ³		11/3/15 9:15 11/3/15 11:15

MASONARY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
MORTAR CEMENT MIX		15 mins	11/3/15 9:45 - 11/3/15 10:00
RUBBER BRICKLAYER HOD	1 Unit		11/3/15 9:45 - 11/3/15 10:00
RUBBER PAIL	1 Unit		11/3/15 9:45 - 11/3/15 10:00
42,5R CEMENT	5,5 kg		11/3/15 9:45 - 11/3/15 10:00
CONCRETE SAND	0,4 ft ³		11/3/15 9:45 - 11/3/15 10:00
WATER	6 ltrs		11/3/15 9:45 - 11/3/15 10:00
CONCRETE MIXER	1 Unit		11/3/15 9:45 - 11/3/15 10:00
SHOVEL	1 Unit		11/3/15 9:45 - 11/3/15 10:00
WHEEL BARROW	1 Unit		11/3/15 9:45 - 11/3/15 10:00
SUPPORT STRUCTURE MORTAR CEMENT PLASTERING		60 mins	11/3/15 10:00 - 11/3/15 11:00
RUBBER BRICKLAYER HOD	4 Units		11/3/15 10:00 - 11/3/15 11:00
PLAIN TROWEL	4 Units		11/3/15 10:00 - 11/3/15 11:00
GAUGE ROD	4 Units		11/3/15 10:00 - 11/3/15 11:00
TROWEL	4 Units		11/3/15 10:00 - 11/3/15 11:00
MORTAR CEMENT	0,65 ft ³		11/3/15 10:00 - 11/3/15 11:00

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
TILE ON-SITE LAYOUT AND CUTTING		180 mins	11/3/15 11:00 - 11/3/15 14:00
CARPENTER'S SQUARE	2 Units		11/3/15 11:00 - 11/3/15 14:00
GAUGE ROD	1 Unit		11/3/15 11:00 - 11/3/15 14:00
FLEXOMETER	4 Units		11/3/15 11:00 - 11/3/15 14:00
CARPENTER'S PENCIL	4 Units		11/3/15 11:00 - 11/3/15 14:00
20 x 30 TILE	110 ft ²		11/3/15 11:00 - 11/3/15 14:00
TILE CUTTER	2 Units		11/3/15 11:00 - 11/3/15 14:00
CERAMIC EDGE TRIM INSIDE CORNER	25 m		11/3/15 11:00 - 11/3/15 14:00
PLACE DOOR		45 mins	11/3/15 15:03 - 11/3/15 15:48
HAMMER	1 Unit		11/3/15 15:03 - 11/3/15 15:48
CARPENTER'S SQUARE	1 Unit		11/3/15 15:03 - 11/3/15 15:48
GAUGE ROD	1 Unit		11/3/15 15:03 - 11/3/15 15:48
DOOR	1 Unit		11/3/15 15:03 - 11/3/15 15:48
PAINTING		120 mins	11/3/15 15:48 - 11/3/15 17:48
PAINT	10 ltr		11/3/15 15:48 - 11/3/15 17:48
PAINT ROLLER	4 Unit		11/3/15 15:48 - 11/3/15 17:48

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
TILING		300 mins	11/4/15 9:00 - 11/4/15 14:00
LEVEL	3 Units		11/4/15 9:00 - 11/4/15 14:00
PLAIN PLASTERING TROWEL	3 Units		11/4/15 9:00 - 11/4/15 14:00
CARPENTER'S SQUARE	2 Units		11/4/15 9:00 - 11/4/15 14:00
FLEXOMETER	3 Units		11/4/15 9:00 - 11/4/15 14:00
20 x 30 TILE	110 ft ²		11/4/15 9:00 - 11/4/15 14:00
TILE ADHESIVE	75 kg		11/4/15 9:00 - 11/4/15 14:00
TRIANGLE SPATULA	3 Units		11/4/15 9:00 - 11/4/15 14:00
CERAMIC EDGE TRIM INSIDE CORNER	25 m		11/4/15 9:00 - 11/4/15 14:00
GROUT		60 mins	11/4/15 15:30 - 11/4/15 16:30
PLAIN PLASTERING TROWEL	4 Units		11/4/15 15:30 - 11/4/15 16:30
TILE GROUT	3 kg		11/4/15 15:30 - 11/4/15 16:30
TROWEL	4 Units		11/4/15 15:30 - 11/4/15 16:30
TRIANGLE SPATULA	4 Units		11/4/15 15:30 - 11/4/15 16:30

MASONARY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	DURATION	TIME FRAME	
PLUMBING	1645 mins	11/2/15 15:00	11/5/15 11:10
MATERIAL RECEPTION	60 mins	11/2/15 15:00	11/2/15 16:00
INSPECTION AND DEASSEMBLY OF CURRENT INSTALATION	240 mins	11/2/15 15:00	11/2/15 19:00
ROOF WORK (TANK, ACOMETIDAS, VALVUES, COUNTER..)	240 mins	11/2/15 19:00	11/3/15 11:45
PLACE DRINKING TAPS & HANDWASH DRAINS	100 mins	11/3/15 11:45	11/3/15 13:25
INSTALACION DEPOSITO INTERIOR, ACOMETIDA HANDWASH, ACOMETIDA BEBEDERO, FILTRO..	240 mins	11/3/15 11:45	11/3/15 16:45
CUT/TWIST PIPES FOR HANDWASH (OUTSIDE THE HANDWASH)	120 mins	11/3/15 16:45	11/3/15 18:45
PAINT	120 mins	11/3/15 15:48	11/3/15 17:48
HANDWASH WATER EVACUATION INSTALATION	60 mins	11/3/15 11:45	11/3/15 12:45
WATER SUPLY SUMINISTRATION PLACEMENT (ON TOP OF THE STRUCTURE)	120 mins	11/5/15 9:10	11/5/15 11:10

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
MASONARY	1305 mins	11/2/15 15:00	11/4/15 16:30
MATERIAL RECEPTION AND TESTING BEFORE INSTALLATION	30 mins	11/2/15 15:00	11/2/15 15:30
OPEN DOOR APERTURE AND DOOR SUB-FRAME COLOCATION	60 mins	11/2/15 15:00	11/2/15 16:00
ON-SITE LAYOUT	30 mins	11/2/15 15:00	11/2/15 15:30
MORTAR CEMENT MIX	15 mins	11/2/15 15:00	11/2/15 15:15
HAMMERING THE CONCRETE DECK TO PLACE THE SANITATION PIPE	30 mins	11/2/15 15:15	11/2/15 15:45
BRICKWORK (support structure)	150 mins	11/2/15 15:00	11/2/15 17:30
BIG FORMAT BRICK COLOCATION	90 mins	11/2/15 16:30	11/2/15 18:00
HOLES ON BIG FORMAT BRICK	10 mins	11/2/15 17:40	11/2/15 17:50
FORMWORK	45 mins	11/2/15 18:00	11/2/15 18:45
PLACE IRON MESH AND MARK OUT LEVEL OF CONCRETE	15 mins	11/2/15 18:45	11/2/15 19:00
PLACE PVC PIPES ON SINK BEFORE POURING THE CONCRETE	10 mins	11/2/15 18:45	11/2/15 18:55
MIX CONCRETE (with small gravel)	40 mins	11/2/15 18:45	11/2/15 19:25
POUR AND LEVEL THE CONCRETE	40 mins	11/2/15 19:00	11/2/15 19:40

MASONRY TOOLS & ASSEMBLY TIME FRAME

MATERIAL	QTY.	DURATION	TIME FRAME
REMOVE THE FORMWORK		30 mins	11/3/15 9:00 11/3/15 9:30
MORTAR CEMENT MIX		15 mins	11/3/15 9:00 11/3/15 9:15
BRICKWORK (sink perimeter and central wall)		120 mins	11/3/15 9:15 11/3/15 11:15
MORTAR CEMENT MIX		15 mins	11/3/15 9:45 11/3/15 10:00
SUPPORT STRUCTURE MORTAR CEMENT PLASTERING		60 mins	11/3/15 10:00 11/3/15 11:00
TILE ON-SITE LAYOUT AND CUTTING		180 mins?	11/3/15 11:00 11/3/15 14:00
PLACE DOOR		45 mins	11/3/15 15:03 11/3/15 15:48
PAINTING		120 mins	11/3/15 15:48 11/3/15 17:48
TILING		300 mins	11/4/15 9:00 11/4/15 14:00
GROUT		60 mins?	11/4/15 15:30 11/4/15 16:30