

STRENGTHENING A DECENTRALIZED HEALTH SYSTEM
FOR PROTRACTED DISPLACED POPULATION IN AL
FASHER AND NYALA - NORTH AND SOUTH DARFUR
STATES



HEALTH CENTER OF OTASH-NHIF2
REHABILITATION

Chapters - summary

<i>CHAPTERS SUMMARY</i>		Total EUR
0	GENERAL/MOBILIZATION	3.000,00
1	DEMOLITION AND DISMANTLING	2.650,00
2	STRUCTURAL & EXCAVATION	23.844,56
3	CIVIL WORKS & FINISHING	89.835,40
4	ELECTRICAL	31.667,91
5	PLUMBING	11.650,10
S	Safety and Insurance	2.000,00
Total		164.647,98

BILLS OF QUANTITIES**HEALTH CENTER OF OTASH-NHIF2
REHABILITATION****Chapter 0**

Ref.	DESCRIPTION	Quantity	Unit	Unit Price	Amount
				EUR	EUR
	GENERAL/MOBILIZATION				
0.1	Mobilization and site preparation including fencing, furnished site offices, sign boards, storage facilities, supporting facilities, temporary utilities & other	1,00	JOB	3.000,00	3.000,00
0.2	During construction, temporary electricity, temporary water, transportation, overtime, tests, samples, reports, work programs, insurances and all other				
0.3	Demobilization & site clearing				
	TOTAL				3.000,00

To Bill Summary

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 1

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
1	DEMOLITION AND DISMANTLING				
	Dismantling and demolition of existing parts of construction, including light steel structure, corrugated american sheets, walls, internal partitions, internal and external finishings including false ceiling, floors and any light fittings. Demolition of bricks or any other materials wall, of materials roof, removal of debris and its transport to the city landfill up in according to local authority specifications. For walls tiled with ceramics and other materials, price includes stripping of these layers. The cut-off line of the demolition work shall suit the existing site conditions. The Contractor shall provide temporary finish linings, covers, flashing plate, etc. and a temporary weather proof external enclosure during the construction work.				
1,1	Total demolition including walls, roof and finishings				
	Ditto, for Medical waste disposal as for	1,00	JOB	400,00	400,00
	Ditto, for Latrine as for drawings	1,00	JOB	300,00	300,00
1,2	Dismantling of existing Light Steel structure and sheet roof and bricks				
	Ditto, for Block A as for drawings	1,00	JOB	600,00	600,00
	Ditto, for Block B as for drawings	1,00	JOB	500,00	500,00
	Ditto, for Block C as for drawings	1,00	JOB	600,00	600,00
	Ditto, for Fence	1,00	JOB	200,00	200,00
	Ditto, for Entrance Gate	1,00	JOB	50,00	50,00
	TOTAL				2.650,00

To Bill Summary

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 2

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
2	STRUCTURAL & EXCAVATION				
2.1	EXCAVATION				
	Excavation for building foundations and/or other manufacts in all kinds of soil and rocks including shoring (if it required as per site conditions) and removal of surplus materials from the site according to local authority specifications and as directed by the				
2.1.1	EXCAVATION FOR MANSONRY STRIP FOUNDATION (0.80 m) DEPTH , (0.50 m WIDTH)				
	Ditto, for NEW Block A	40,75	M.L	8,00	326,00
	Ditto, for Electrical room	14,60	M.L	8,00	116,80
2.1.2	EXCAVATION FOR MANSONRY STRIP FOUNDATION (0.50 m) DEPTH , (0.50 m WIDTH)				
	Ditto, for NEW Block A	6,34	M.L	6,00	38,04
	Ditto, for NEW Block C	13,00	M.L	6,00	78,00
2.1.3	EXCAVATION FOR TOILET				
	Ditto, for Block T1	109,74	CUM	6,00	658,44
	Ditto, for Block T2	109,74	CUM	6,00	658,44
2.2	STRIP FOUNDATION				
2.2.1	STONE STRIP FOUNDATION				
	Supply and construct Rocky stone strip foundations [50 cm width and 40cm height] with cement mortar 1:6 c/s for main building as per drawings.				-
	Ditto, for NEW Block A	40,75	M.L	16,00	652,00
2.2.2	MASONRY STRIP FOUNDATION (GASSA)				
	Supply and construct continues wall over the strip foundation (Gassa) [40 cm width and 50cm height], using two red bricks with cement sand mortar 1:6 for the building as per drawings.				-
	Ditto, for NEW Block A	47,09	M.L	12,00	565,08
	Ditto, for NEW Block C	13,00	M.L	12,00	156,00
2.3	COMPACTED SOIL REPLACEMENT FOR TOILET				
	Supply and lay selected well graded un-expansive well compacted soil with water.				
	for under base foundation, two layers (20 cm each)				
	Ditto, for Block T1	14,63	CUM	10,00	146,32
	Ditto, for Block T2	14,63	CUM	10,00	146,32
2.4	Plain CONCRETE FOR TOILET				
	Supply and cast plain concrete (1:3:6) Grade for latrine pit, t=100mm				
	Ditto, for Block T1	36,58	SQM	12,00	438,96
	Ditto, for Block T2	36,58	SQM	12,00	438,96
2.5	REINFORCED CONCRETE BASE FOUNDATION FOR TOILET				

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 2

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
	Supply and cast reinforced concrete mix (1:2:4) for base foundation with $F_{cu}=25\text{N/mm}^2$, Deformed Bars 12mm diameter ($F_y=460\text{N/mm}^2$)				
	under ground , $t=200\text{mm}$				
	Ditto, for Block T1	7,32	CUM	250,00	1.829,00
	Ditto, for Block T2	7,32	CUM	250,00	1.829,00
2,6	RETAINING WALL FOR TOILET PIT				
	Supply and construct continues wall over the base foundation [40 cm width and 250 cm height], using two red bricks with cement sand mortar 1:6 as for the main building per drawings.				-
	Ditto, for Block T1	50,50	SQM	12,00	606,00
	Ditto, for Block T2	50,50	SQM	12,00	606,00
2.7	BACKFILLING				
	Around Toilet Pit with excavated soil				
	Ditto, for Block T1	44,80	CUM	6,00	268,82
	Ditto, for Block T2	44,80	CUM	6,00	268,82
2.8	COMPACTED SOIL REPLACEMENT				
	Supply and lay selected well graded un-expansive well compacted soil with water.				
	for under slab floor, one layers (20 cm)				
	Ditto, for NEW Block A	25,93	CUM	10,00	259,31
	Ditto, for NEW Block B	10,94	CUM	10,00	109,35
	Ditto, for NEW Block C	9,78	CUM	10,00	97,80
	Ditto, for Electrical room	1,96	CUM	10,00	19,60
2,9	REINFORCED CONCRETE UNDER FLOOR				
	Supply and cast reinforced concrete mix (1:2:4) with $F_{cu}=25\text{N/mm}^2$, Deformed Bars 12mm diameter ($F_y=460\text{N/mm}^2$)				
	under slab floor, $t=100\text{mm}$				
	Ditto, for NEW Block A	129,66	SQM	30,00	3.889,65
	Ditto, for NEW Block B	54,68	SQM	30,00	1.640,25
	Ditto, for NEW Block C	48,90	SQM	30,00	1.466,93
	Ditto, for Electrical room	9,80	SQM	30,00	294,00
2,10	REINFORCED CONCRETE SLAB FLOOR FOR TOILET				
	Supply and cast reinforced concrete with $F_{cu}=25\text{N/mm}^2$, Deformed Bars 12mm diameter				
	on ground , $t=200\text{mm}$				
	Ditto, for Block T1	3,27	CUM	300,00	981,60
	Ditto, for Block T2	3,27	CUM	300,00	981,60
2,11	REINFORCED CONCRETE (Grade BEAMS)				
	Supply and cast reinforced concrete with $F_{cu}=25\text{N/mm}^2$, Deformed Bars 12mm diameter ($F_y=460\text{N/mm}^2$) 1:2:4, Stirrup Bars 8mm diameter				

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 2

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
	beam dimension (30 cm Width, 40 cm Height)				
	Ditto, for Block A	4,89	CUM	300,00	1.467,00
	Ditto, for Electrical room	1,75	CUM	300,00	525,60
	beam dimension (30 cm Width, 50 cm Height)				
	Ditto, for Block T1	2,16	CUM	300,00	648,00
	Ditto, for Block T2	2,16	CUM	300,00	648,00
2,12	REINFORCED CONCRETE (LINTEL BEAMS)				
	Supply and cast reinforced concrete with Fcu=25N/mm², Deformed Bars 12mm diameter (Fy=460N/mm²) 1:2:4, Stirrup Bars 8mm diameter				
	beam dimension (30 cm Width, 15 cm Height)				
	Ditto, for Block A	1,33	CUM	250,00	331,88
	Ditto, for Block B	0,50	CUM	250,00	126,00
	Ditto, for Block C	0,44	CUM	250,00	110,25
	Ditto, for Block T1	0,84	CUM	250,00	210,38
	Ditto, for Block T2	0,84	CUM	250,00	210,38
2,13	REINFORCED CONCRETE (Roof BEAMS)				
	Supply and cast reinforced concrete with Fcu=25N/mm², Deformed Bars 12mm diameter				
	Ditto, for Block T1	2,51	CUM	350,00	878,22
	Ditto, for Block T2	2,51	CUM	350,00	878,22
2,14	REINFORCED CONCRETE (SLABS)				-
	Supply and cast reinforced concrete with Fcu=25N/mm², Deformed Bars 12mm diameter@150 mm (Fy=460N/mm²) 1:2:4 – the item includes perimetral				
	Roof slab , t=160mm				-
	Ditto, for Block T1	6,04	CUM	350,00	2.114,56
	Ditto, for Block T2	6,04	CUM	350,00	2.114,56
	TOTAL				23.844,56

To Bill Summary

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
3	CIVIL WORKS & FINISHING				
3.1	BRICK WALL				-
	Supply and erection of walls using red brick or cement hollow block with sand-cement mortar. The walls are considering the total areas (i.e. inclusive of dead freight) and not deducted by openings (doors, windows). Inclusive of edges, lintels, and all needs to have the opening on the walls.				-
3.1.1	10 cm thickness				-
	Ditto, for Block T1	10,37	SQM	10,00	103,70
	Ditto, for Block T2	10,37	SQM	10,00	103,70
3.1.2	20 cm thickness				-
	Ditto, for Block T1	52,44	SQM	15,00	786,60
	Ditto, for Block T2	52,44	SQM	15,00	786,60
3.1.3	30 cm thickness			-	-
	Ditto, for NEW Block A	177,94	SQM	20,00	3.558,80
	Ditto, for NEW Block B	47,06	SQM	20,00	941,20
	Ditto, for NEW Block C	70,07	SQM	20,00	1.401,40
	Ditto, for Block T1	49,37	SQM	20,00	987,36
	Ditto, for Block T2	49,37	SQM	20,00	987,36
3.1.4	60 cm thickness 50cm HEIGHT				-
	Ditto, for NEW Block A	10,50	M.L	25,00	262,50
	Ditto, for NEW Block B	15,00	M.L	25,00	375,00
	Ditto, for NEW Block C	13,00	M.L	25,00	325,00
3.2	PLASTER				-
3.2.1	INTERNAL PLASTER				-
	Sand-cement plaster 1:5(1 cement: 5 sand), including bonding agent, scratch coat, corner bead, metal lath, plaster stop, fixation, all other accessories including cleaning of all spills, touch – ups finished with a floating coat of neat cement on the roughside of brick wall. The plaster is considering the total volume (i.e. inclusive of dead freight). Inclusive of edges, lintels, and all needs to have the plaster on the wall.				-
	Ditto, for NEW Block A	46,57	SQM	8,00	372,56
	Ditto, for NEW Block B	52,65	SQM	8,00	421,20
	Ditto, for NEW Block C	30,36	SQM	8,00	242,88
	Ditto, for Electrical room	55,50	SQM	8,00	444,00
3.2.2	EXTERNAL PLASTER				-

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
	Sand-cement plaster 1:5(1 cement: 5 sand), including bonding agent, scratch coat, corner bead, metal lath, plaster stop, fixation, all other accessories including cleaning of all spills, touch – ups finished with a floating coat of neat cement on the roughside of brick wall. The plaster is considering the total volume (i.e. inclusive of dead freight). Inclusive of edges, lintels, and all needs to have the opening on the walls. Including the bench on top of wall, parapets				-
	Ditto, for NEW Block A	224,55	SQM	8,00	1.796,40
	Ditto, for NEW Block B	133,74	SQM	8,00	1.069,92
	Ditto, for NEW Block C	130,10	SQM	8,00	1.040,80
	Ditto, for Electrical room	28,34	SQM	8,00	226,72
	Ditto, for Block T1	68,20	SQM	8,00	545,60
	Ditto, for Block T2	68,20	SQM	8,00	545,60
3.2.3	ROOF PLASTER				-
	Sand-cement plaster 1:5(1 cement: 5 sand), including bonding agent, scratch coat, corner bead, metal lath, plaster stop, fixation. The plaster is considering the area of				-
	Ditto, for Block T1	37,76	SQM	8,00	302,08
	Ditto, for Block T2	37,76	SQM	8,00	302,08
3.3	FLOOR TILES				-
	Supply and installation of porcelain tiles for floor cm 40x40, fixed by cement mortar and including the grouting, all inclusive. Samples to be submitted to and approved by the Work Director				-
3.3.1	INTERNAL TILES				-
	Ditto, for NEW Block A	77,86	SQM	20,00	1.557,10
	Ditto, for NEW Block B	33,75	SQM	20,00	675,00
	Ditto, for NEW Block C	35,90	SQM	20,00	717,95
	Ditto, for Electrical room	9,00	SQM	20,00	180,00
	Ditto, for Block T1	15,30	SQM	20,00	306,00
	Ditto, for Block T2	15,30	SQM	20,00	306,00
3.3.2	WALL TILES				-
	Supply and installation of ceramic wall tiles . 15X15 cm, fixed by cement mortar , including grouting, all inclusive. Samples to be submitted and approved by the Work				-
	Ditto for LAB in NEW block C	54,30	SQM	15,00	814,50
	Ditto for sinks in NEW block A	1,44	SQM	15,00	21,60
	Ditto for sinks in NEW block B	0,72	SQM	15,00	
	Ditto, for Block T1	46,06	SQM	15,00	690,90
	Ditto, for Block T2	46,06	SQM	15,00	690,90
3.3.3	SKIRTING TILES				-
	Supply and installation of ceramic skirting tiles, fixed by cement mortar, including grouting, all inclusive. Samples to be submitted and approved by the Work Director				-
3.3.3.1	INTERNAL SKIRTING				-
	Ditto, for NEW Block A	80,20	M.L	3,00	240,60
	Ditto, for NEW Block B	37,50	M.L	3,00	112,50

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
	Ditto, for NEW Block C	12,80	M.L	3,00	38,40
	Ditto, for Block T1 ENTRANCE	4,00	M.L	3,00	12,00
	Ditto, for Block T2 ENTRANCE	4,00	M.L	3,00	12,00
3,4	CEMENT SCREED FLOOR FINISH				-
	Supply and apply cemet screed proper smooth finish for				-
	Ditto, for NEW Block A waiting area	37,00	SQM	6,00	222,00
	Ditto, for NEW Block B waiting area	22,00	SQM	6,00	132,00
	Ditto, for NEW Block C waiting area	13,00	SQM	6,00	78,00
3,5	WINDOWS AND DOORS				
3.5.1	WINDOWS				-
	Supplying and installation of new steel windows, tempered single glaze, (6mm), transparent finish. Rate shall include all hardwares, and mosquito net as per drawings and work director approval.				-
	100 x 100 cm				-
	Ditto, for NEW Block A	14,00	No.	180,00	2.520,00
	Ditto, for NEW Block B	5,00	No.	180,00	900,00
	Ditto, for NEW Block C	5,00	No.	180,00	900,00
3.5.2	VENTILATION WINDOWS				
	Supply and installation of ventilation windows,metal frame with mosquito net fixed				
	60 x 40 cm				-
	Ditto, for Block T1	3,00	No.	50,00	150,00
	Ditto, for Block T2	3,00	No.	50,00	150,00
3.5.3	NEW DOORS				-
	Supplying and installation of pvc doors. Rate shall include all hardwares, sealant in all connections with wall, as per drawings and work director approval.				-
	100 x 200 cm			-	-
	Ditto, for NEW Block A	3,00	No.	180,00	540,00
	Ditto, for NEW Block B	3,00	No.	180,00	540,00
	Ditto, for NEW Block C	2,00	No.	180,00	360,00
	150 x 200 cm			-	-
	Ditto, for NEW Block A	2,00	No.	200,00	400,00
	70 x 200 cm				-
	Ditto, for Block T1	2,00	No.	180,00	360,00
	Ditto, for Block T2	2,00	No.	180,00	360,00
3.5.4	NEW DOORS TOILET for disabled persons				-
	Supply and installation of pvc doors. Rate shall include all hardwares, silicon sealant in all connections with wall,as per drawings and site supervisor approval.				-
	100 x 200 cm				-
	Ditto, for Block T1	1,00		220,00	220,00
	Ditto, for Block T2	1,00		220,00	220,00
3,6	PAINTING WORKS				-
3.6.1	INTERNAL PAINTING				-

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price	Amount
				EUR	EUR
	Applying of paint coat, in plaster surface, glossy oil paint, up to the height of 1.8 meters. Including brushing, mold removal and grouting, primer, filler and three coats of paint. Colour to be submitted and approved by the Site Supervisor. Total area (i.e. inclusive of dead freight).				-
	Ditto, for NEW Block A	126,36	SQM	6,00	758,16
	Ditto, for NEW Block B	72,90	SQM	6,00	437,40
	Ditto, for NEW Block C	24,84	SQM	6,00	149,04
	Ditto, for Electrical room	27,00	SQM	6,00	162,00
	Ditto, for Block T1	36,36	SQM	6,00	218,16
	Ditto, for Block T2	36,36	SQM	6,00	218,16
	Applying of paint coat, in plaster surface, EMULSION PAINT (Pomastic). Including primer, filler and three coats of paint. Colour to be submitted and approved by the Site Supervisor.				-
	from the height of 1.80 meters to the ceiling				-
	Ditto for internal walls block A	147,42	SQM	4,00	589,68
	Ditto for internal walls block B	85,05	SQM	4,00	340,20
	Ditto for internal walls block C	28,98	SQM	4,00	115,92
	Ditto, for Electrical room	31,50	SQM	4,00	126,00
	from floor up to the ceiling				-
	Ditto, for Block T1	14,00	SQM	4,00	56,00
	Ditto, for Block T2	14,00	SQM	4,00	56,00
3.6.2	EXTERNAL PAINTING				-
	Applying of paint coat with EMULSION PAINT (Pomastic) from the floor level to the ceiling AND the ceiling in covered waiting areas. Including brushing, mold removal and grouting, primer, filler and three coats of paint. Colour to be submitted and approved by the Site Supervisor. For all external surfaces including pillars and ceilings of waiting areas. Total area (i.e. inclusive of dead freight).				-

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price	Amount
				EUR	EUR
	Ditto, for NEW Block A	253,55	SQM	7,00	1.774,85
	Ditto, for NEW Block B	144,74	SQM	7,00	1.013,18
	Ditto, for NEW Block C	139,10	SQM	7,00	973,70
	Ditto, for Electrical room	28,34	SQM	7,00	198,38
	Ditto, for Block T1	95,00	SQM	7,00	665,00
	Ditto, for Block T2	95,00	SQM	7,00	665,00
3.6.3	ROOF PAINTING				-
	Applying of paint coat, in plaster surface, EMULSION PAINT (Pomastic). Including primer, filler and three coats of paint. Colour to be submitted and approved by the Site Supervisor.				-
	Ditto, for Block T1	37,76	SQM	7,00	264,32
	Ditto, for Block T2	37,76	SQM	7,00	264,32
3,7	FALSE CEILING				-
	Supplying and laying of internal false ceiling. The item includes any necessary supply and work according to standards like aluminium frames, gypsum plaster for smoothing, fillers, tapes, beads, fixings etc.				-
	Ditto, for NEW Block A	77,86	SQM	16,00	1.245,68
	Ditto, for NEW Block B	33,75	SQM	16,00	540,00
	Ditto, for NEW Block C	35,90	SQM	16,00	574,36
	Ditto, for Electrical room	9,00	SQM	16,00	144,00
3,8	KHAFJA WORK				-
	Supply and install layer of well done khafja (thickness to be defined) and slope for drainage and good finishing as Site Supervisor approval.				-
	Ditto, for Block T1	37,76	SQM	16,00	604,16
	Ditto, for Block T2	37,76	SQM	16,00	604,16
3,9	STEPS				-
	Supply and install concrete steps connecting sheded area (veranda) and toilets, surface ready for tiling according to works director instructions and approval.				-
	Ditto, for NEW Block A	1,00	Job	100,00	100,00
	Ditto, for NEW Block B	1,00	Job	100,00	100,00
	Ditto, for NEW Block C	1,00	Job	100,00	100,00
	Ditto, for Block T1	1,00	Job	50,00	50,00
	Ditto, for Block T2	1,00	Job	50,00	50,00
3,10	RAMP FOR WHEELCHAIR				-

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
	Construction of ramps with landings for wheelchair. The item includes 30 cm depth excavation, supply and lay selected well graded un-expansive well compacted soil thickness 30 cm, the brick walls (with compacted soil and plain concrete), supply and cast for plain concrete (1:3:6) (t=10cm), reinforced plain concrete slab (1:2:4) (t=10cm), and screed cement finish with non-slippery treatment, lateral borders with plaster and paint on the lateral surfaces. Including lateral steel handrail. According to Site Supervisor instructions and as per drawings.				-
	Ditto, for NEW Block A	1,00	Job	350,00	350,00
	Ditto, for NEW Block B	1,00	Job	350,00	350,00
	Ditto, for NEW Block C	1,00	Job	350,00	350,00
	Ditto, for Block T1	1,00	Job	100,00	100,00
	Ditto, for Block T2	1,00	Job	100,00	100,00
3,11	MASHRABIA				-
	Supply and installation of metallic mashrabiya (grill for shadow and view protection), composed by metallic perimeter frame, metallic grill, support and fixation on site, giving an anti-rust primer, applying two coats of paint, colour and quality has to be approved by work director. All accessories, bolts, civil work are included. For dimension and description refer to Detailed drawing. Sample must be submitted and approved.				-
	Dim. 120 x 180			-	-
	Ditto, for Block T1	5,40	SQM	35,00	189,00
	Ditto, for Block T2	5,40	SQM	35,00	189,00
3,11	GALVANIZED GUTTER				
	Supply and proper installation of galvanized gutter, with flashing over upstand into wall, to be properly fixed between Corrugated Metal Sheet roof and wall.				
	Ditto, for NEW Block A	40,10	M.L	18,00	721,80
	Ditto, for NEW Block B	13,40	M.L	18,00	241,20
	Ditto, for NEW Block C	12,05	M.L	18,00	216,90
3,12	PVC GUTTER				
	Supply and proper installation of PVC gutter, with flashing over upstand into wall, to be properly fixed between Corrugated Metal Sheet roof and wall.				
	> Dia 100 mm (4")				
	Ditto, for Block T1	5,50	M.L	8,00	44,00
	Ditto, for Block T2	5,50	M.L	8,00	44,00
3,12	CORRUGATED METAL SHEET ROOF				-
	Supply and proper installation of new Corrugated Metal Sheets on the new steel structure including all necessary				-
	Ditto, for NEW Block A	114,71	SQM	12,00	1.376,46
	Ditto, for NEW Block B	44,37	SQM	12,00	532,44
	Ditto, for NEW Block C	45,36	SQM	12,00	544,35
	Ditto, for Electrical room	13,52	SQM	12,00	162,24
3,13	NEW SHED				-

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
	Supply and install of the whole steel structure for a new shed (VERANDA) including steel columns, main structure, secondary structure, steel beams and cover from corrugated sheets of Zinc metal. All needs and as per drawings. fixed by resin on the NEW concrete column and				-
	Ditto, for NEW Block A	52,65	SQM	30,00	1.579,50
	Ditto, for NEW Block B	30,60	SQM	30,00	918,00
	Ditto, for NEW Block C	23,88	SQM	30,00	716,25
3.15	THERMENAL HEAT				
	Supply and installing double layers aluminum foil, to be properly fixed under corrugated sheets of Zinc metal				
	Ditto, for NEW Block A	77,86	SQM	8,00	622,84
	Ditto, for NEW Block B	33,75	SQM	8,00	270,00
	Ditto, for NEW Block C	35,90	SQM	8,00	287,18
	Ditto, for Electrical room	9,00	SQM	8,00	72,00
3.14	INTERLOCK				-
	Providing and laying factory made interlock paver 4 cm on compacted bed of fine sand and filling the joints with proper materials, finishing and sweeping extra sand, color and thickness, Color as for Site Supervisor indications.				-
	Ditto, for Landscape	271,30	SQM	8,00	2.170,40
3.18	CURBSTONE WORK				-
	Supply and installation of concrete curbstone edging around the building (except elevations which have interlock), the item includes fixing by cement mortar and				
	Ditto, for NEW Block A	32,00	M.L	3,50	112,00
	Ditto, for NEW Block B	15,50	M.L	3,50	54,25
	Ditto, for NEW Block C	23,50	M.L	3,50	82,25
	Ditto, for Block T1	15,50	M.L	3,50	54,25
	Ditto, for Block T2	18,50	M.L	3,50	64,75
	Ditto, for OTHER	16,00	M.L	3,50	56,00
3.16	MEDICAL WASTE DISPOSAL				-
	Construction of medical waste disposal. The item includes (150 cm length, 150 cm width, 150 cm depth) excavation for pit, supply and cast for plain concrete (1:3:6) (t=10cm), (reinforced concrete slab (1:2:4) (t=20cm) deformed bar 12mm (fy=460 N/mm2) UNDER AND ABOVE BRICK WALL), the brick walls (t=20cm) height 150 cm, 4" stainless steel pipe for Chimney, 2" stainless steel pipe for Ventilation and ash doors . as for drawings				-
	Ditto, for medical waste disposal as for drawing	1,00	Job	300,00	300,00
3.17	NEW FENCE				-
	Construction of fence. The item includes : (40 cm length, 40 cm width, 60 cm depth) excavation per 250 cm, supply and cast for reinforced concrete pocket foundation (1:2:4) (t=20cm) (40 cm length, 40 cm width, 40 cm thickness) fence steel system (CLD FENCING SYSTEM)				-
	Ditto, for Fence as for drawings	121,80	M.L	250,00	30.450,00

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 3

Ref.	DESCRIPTION	Quantity	Unit	Unit Price	Amount
				EUR	EUR
3,18	NEW METAL GATE				-
	Supply and install new metal gate, properly made according to the detailed drawings, giving an anti-rust primer, applying two coats of paint, colour and quality has to be approved by work director, including hinges and				-
	Supply and install new gate 400 x 200 cm.	1	JOB	#####	1.000,00
	TOTAL				89.835,40

To Bill Summary

BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 4

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
4	ELECTRICAL				
4.1	NEW GENERATOR				
	Provide and install new generator with its steel cage. The item also includes the supply and installation of the connection cables from the generator to the main distribution board	1.00	JOB	11,440.00	11,440.00
4.2	MAIN SWITCHBOARD				
	Supply, install, connect, test & commission the main distribution board as stated drawing as per final load diagram completely with all necessary accessories with labelling for all circuits				
	18 way - 63A MCCB IPN distribution board	1.0	No.	258.02	258.02
	12 way - 160 A MCCB IPN distribution board	1.0	No.	273.80	273.80
	Change over switch 200 Amper	1.0	No.	421.20	421.20
4.3	SOLATORS				
	Supply, install, connect, test & commission the following solators including conduits, wiring, metal boxes and ancillary works:				
	20A Switch 20 Amp Mounted Switch For Auto Drive	1.0	No.	24.25	24.25
	20A Switch 20 Amp Mounted Switch For AC	1.0	No.	28.90	28.90
4.4	CABLES				
	Supply, install, connect, test & commission the following with KSA Specifications including conduits, wiring, metal boxes and ancillary works:				
	1 (4 x 25 mm ² Cu / RPE / SWA / PVC)	6.0	ML	6.16	36.96
	1 (4 x 15 mm ² Cu / PVC / PVC)	60.0	ML	5.60	336.00
4.5	SOLAR PV ARRAY 22KVA POWER CAPACITY				
	Supply, install, connect, test & commission the following solators including conduits, wiring, metal boxes and ancillary works:				
	Solar Panel, 400 W	32.0	No.	184.80	5,913.60
	20 VV 11.1KV 24 VV 11.1KV	1.0	No.	4,510.00	4,510.00
	4 120 mm ² Cu / PVC (2VC)	30.0	ML	21.88	656.36
4.3	LIGHTING, POINTS & FIXTURES				
	Work includes provision of PVC conduits and all accessories and wiring from the point up to the distribution board.				
4.3.2	CEILING MOUNTED LAMP				
	Ditto, for NEW Block A	19.00	No.	30.54	580.26
	Ditto, for NEW Block B	2.00	No.	30.54	61.08
	Ditto, for NEW Block C	8.00	No.	30.54	244.32
	Ditto, for Electrical room	2.0	No.	30.54	61.08
	Ditto, for Block T1	4.00	No.	19.89	79.56
	Ditto, for Block T2	4.00	No.	19.89	79.56
4.3.3	NEW LAMP				
	Ditto, for NEW Block C	2.00	No.	30.54	61.08
4.3.4	CEILING FANS				
	Ditto, for NEW Block A	10.00	No.	108.59	1,085.90
	Ditto, for NEW Block B	5.00	No.	108.59	542.95
	Ditto, for NEW Block C	5.00	No.	108.59	542.95
	Ditto, for Electrical room	1.0	No.	108.59	108.59
4.3.5	EXHAUST FANS				
	Ditto, for NEW Block C	1.00	No.	41.54	41.54
4.3.7	AIR CONDITIONING				
	Supply and install AC unit, according to the calculated power, including pipes, cables, ect., from approved manufacturer, quality and brand approved by work director, with all the requirements and accessories.				
	Ditto, for NEW Block A	1.00	No.	768.00	768.00
	Ditto, for NEW Block C	1.00	No.	768.00	768.00
4.4	SWITCHES				
	Supply and install lighting switches from approved manufacturer, complete as required per standards, including wiring using approved UPVC conduits and all necessary fittings. The item includes cutting the walls and making good the same for recessed conduits.				
	Approval subject to the Work Director.				
4.4.1	10A SWITCH				
	Ditto, for NEW Block A	8.00	No.	10.21	81.68
	Ditto, for NEW Block B	4.00	No.	10.21	40.84
	Ditto, for NEW Block C	4.00	No.	10.21	40.84
	Ditto, for Block T1	3.00	No.	10.21	30.63
	Ditto, for Block T2	3.00	No.	10.21	30.63
	Ditto, for Electrical room	1.0	No.	10.21	10.21
4.4.2	16A SWITCH				
	Ditto, for NEW Block A	1.00	No.	11.97	11.97
	Ditto, for NEW Block C	1.00	No.	11.97	11.97
4.5	SOCKET OUTLET				
	Supply & installation of fused shuttered switched socket outlet to comply with relevant BS standard (Clipsal, Orange, Crabtree / Tenby/ABB or equivalent). Wiring (including supply of earth wire & all other material required) of above socket using recessed UPVC conduits is included in the item				
	Ditto, for NEW Block A	30.00	No.	25.87	776.10
	Ditto, for NEW Block B	15.00	No.	25.87	388.05
	Ditto, for NEW Block C	22.00	No.	25.87	569.14
	TOTAL				\$1,687.91

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BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

Chapter 5

Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
5	PLUMBING				
5.1	PLUMBING DRAINAGE SYSTEM				
5.1.1	DRAINAGE PIPES				
	Provide and install the complete drainage pipes shall be U.P.V.C. (Heavy duty) class 3 to BS4515 (6 bar) lay with all fittings including all bends, junction, accessories, support ... etc. for complete work & according to the consultant requerments and the approved sample				
	> Dia 50 mm (2")				
	Ditto for, Block A&B&T2 as for drawings	60,50	ML	12,00	726,00
	Ditto for, Block C&T1 as for drawings	16,00	ML	12,00	192,00
5.1.2	RAIN DRAIN PIPES				
	Provide and install the complete rain drain pipes shall be U.P.V.C. (Heavy duty) class 3 to BS4515 (6 bar) for complete work & according to the consultant requerments and the approved sample				
	> Dia 100 mm (4")				
	Ditto for, Block A as for drawings	16,00	No.	6,00	96,00
	Ditto for, Block B as for drawings	4,00	No.	6,00	24,00
	Ditto for, Block C as for drawings	4,00	No.	6,00	24,00
	Ditto for, Block T1 as for drawings	3,00	No.	6,00	18,00
	Ditto for, Block T2 as for drawings	3,00	No.	6,00	18,00
5.1.3	GULLY TRAP				
	Provide material & erect reinforced square Gully trap 0.30*0.30 depths 0.30 m including all excavation , back filling ,concrete work, water proofing ,depth according as drawing and complete with 30x30 cm sealed cover (heavy duty type) laying the pipe before construct manhole and fixing. work to be completed according to specification and engineer approval				
	Ditto for, Block A&B&T2 as for drawings	10,00	No.	35,00	350,00
	Ditto for, Block C&T1 as for drawings	5,00	No.	35,00	175,00
5.1.4	SOAK PIT				
	making soak pit 1.5 x 1.5 m deep 3m dry bricks of class designation 75 S.W drain pipe 50mm diameter, complete as per standard desian	2,00	Job	#####	3.000,00
5.2	STEEL SINK				

	Steel Sink shall be complete with chromium plated, mixing (GROHE) tap PVC bottle trap isolating valves and all necessary fittings. for completed work as for Site Supervisor indications.				
	Ditto, for NEW Block C	1,00	No.	150,00	150,00
5.3	WATER CLOSET				
	Supply and install Eastern water closet, approved manufactures (Twyford) , complete with flush tank , valve, Trigger Spray handshower set , angle valve with all necessary fittings, support, and all accessoriesetc. for complete work as per specifications and Site Supervisor approval				
	Ditto, for Block T1	2,00	No.	150,00	300,00
	Ditto, for Block T2	2,00	No.	150,00	300,00
	Supply and install Western water closet, approved manufactures (Duravit (Egypt) -GROHE) , complete with seat and cover, flush tank , valve, Trigger Spray handshower set , angle valve with all necessary fittings, support, and all accessoriesetc. for complete work as per specifications and Site Supervisor approval				
	Ditto, for Block T1	1,00	No.	150,00	150,00
	Ditto, for Block T2	1,00	No.	150,00	150,00
5.4	WASH BASIN				
	Supply and Install Wash Basin from approval manufacture C/W tap, angles valve, flexible pipes, drain ..etc and all necessary accessories for complete work as per specifications, drawings and work				
	Ditto, for NEW Block A	4,00	No.	150,00	600,00
	Ditto, for NEW Block B	2,00	No.	150,00	300,00
5.5	COMPLETE ABLUTION POINT				
	Execution of an ablution area, located near the toilets, as per drawing. Ablution composed by, n.3 stool/seats, done by bricks plastered and clad by ceramic tile. Including the ceramic wall tiles. Including all connections, taps etc. The item shall be completed as per drawings and work	2,00	Job	600,00	1.200,00
5.6	VENTILATION PIPES				
	Supply and install PVC pipes 4 inch, 4.3m high fastened to wall. Top of vent pipes is a minimum 0.5m above roof and the bottom 0.5m under the Toilet floor				
	Ditto for, Block T1 as for drawings	13,05	ML	6,00	78,30
	Ditto for, Block T2 as for drawings	13,05	ML	6,00	78,30
5.7	PLUMBING WATER SUPPLY SYSTEM				
5.7.1	WATER PIPES				

	Supply and install water supply pipes shall be heavy duty PP-R pipes class 3 PN 20 , from approved manufactures (TECHNO-Sultanate of Oman) complete with all necessary fittings , valves for all toilets and all general services as detailed in specifications as shown in the drawings.				
	> Dia 25 mm (1")				
	Ditto for, Block A&B&T2 as for drawings	67,00	ML	5,00	335,00
	Ditto for, Block C&T1 as for drawings	39,00	ML	5,00	195,00
	> Dia 12.5 mm (0.5")				
	Ditto for, Block A&B&T2 as for drawings	10,50	ML	3,00	31,50
	Ditto for, Block C&T1 as for drawings	3,00	ML	3,00	9,00
5,8	ELEVATED WATER TOWER STRUCTURE				
	Supply and erect an elevated tower including the excavation, the compacted soil, the plain concrete, the reinforced concrete beam, the steel structure with proper connections and weldings with all necessary accessories as for drawings. The contractor will complete all structural details missing following the Site Supervisor indications and approval.				
	Ditto for, elevated water tank	1,00	Job	####	2.500,00
5,9	PLASTIC WATER TANK				-
	Provide and install elevated water tank of capacity 3 m³ (Tana) supported on steel tower of 6m high all to be approved by site				-
	Ditto for, external area as for drawings	1,00	Job	500,00	500,00
5,10	TRANSFER WATER PUMP				
	Provide and install booster pump of approved manufactures (PENTAX -Italy) (Q = 1 L/S , H = 25 m , 1 hp) With all accessories including pressure switch automatic, gate valves, non-return valves				
	Ditto for, external area as for drawings	1,00	Job	150,00	150,00
	TOTAL				11.650,10

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BILLS OF QUANTITIES

HEALTH CENTER OF OTASH-NHIF2 REHABILITATION

	Chapter S				
Ref.	DESCRIPTION	Quantity	Unit	Unit Price EUR	Amount EUR
S	SAFETY AND INSURANCE				
S.1	Safety & Insurance: Accident Prevention Devices (such as anti-slippery heavy duty shoes, working glasses, gloves, jacket, etc.); training; implementation of safe working methodology and procedures; insurance as per Art. 16.2.b.4 of Contract General Cconditions & Special Conditions; monitoring				
		1	Job	2.000,00	2.000,00
	TOTAL				2.000,00

To Bill Summary