
TENDER SPECIFICATION

TENDER NO. BHEL/ NR/SCT/ TISHREEN-3&4/ MAIN CIVIL /760

FOR

**“Construction of all the Civil, Structural & Architectural works in
Main Plant area, Balance of Plant related buildings and
foundations including RCC Piling for 2 x 200 MW Tishreen Power
Plant Extension Project, Tishreen, Syria”**

PART II – PRICE BID



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
Distt. Gautam Budh Nagar, NOIDA – 201 301(INDIA)



ISO 9001, ISO 14001 and
OHSAS 18001 certified
company
SubContract and Purchase
Deptt.

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THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

RATE SCHEDULE CUM BILL OF QUANTITIES

Construction of all the Civil, Structural & Architectural works in Main Plant area, Balance of Plant related buildings and foundations including RCC Piling for 2 x 200 MW Tishreen Power Plant Extension Project, Tishreen, Syria".

TENDER NO. BHEL/NR/SC/TISHREEN-3&4/ MAIN CIVIL /760

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
						In figures	In words	IN EUROS
BILL OF QUANTITIES (BOQ) OF GENERAL CIVIL, STRUCTURAL & ARCHITECTURAL WORKS EXCEPT CHIMNEY								
100	EARTH WORK IN EXCAVATION, BACKFILLING AND DISPOSAL INCLUDING NECESSARY MEN/WOMEN, MATERIALS, EQUIPMENT, LOADING, TRANSPORTATION, UNLOADING, DEWATERING ETC AS PER SPECIFICATION, DRAWINGS AS PER RELAVANT SYRIAN/BS STANDARDS/SPECIFICATIONS APPROVED BY PEEGT/BHEL AND AS DIRECTED BY ENGINEER- IN-CHARGE FOR THE FOLLOWING.							
101	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (wherever required), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading/levelling of disposed materials etc all complete for following depths below ground level. (The payment for excavation under subheads below shall be made for the quantities excavated in that subhead only and each subhead includes lift upto ground level):							
a	Depth from ground level but not exceeding 2 m	CUM	92600	5000	97600			
b	Depth exceeding 2 m but not exceeding 4 m	CUM	72000		72000			
c	Depth exceeding 4 m but not exceeding 6 m	CUM	12500		12500			
102	Earth work in excavation in soft rock (rock without any recovery of excavated materials in the form of hard stone/boulder) including weathered rock which can be excavated by means of crow bar, pick axe, pneumatic rock breaker attachment with excavator machine etc but does not require chiselling or blasting including setting out, levelling, dewatering (wherever required), shoring & strutting (wherever required), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 500 m, spreading / levelling of disposed materials etc all complete for following depths below ground level. (The payment for excavation under subheads below shall be made for the quantities excavated in that subhead only and each subhead includes lift upto ground level):							
a	Depth from ground level but not exceeding 2 m	CUM	150		150			
b	Depth exceeding 2 m but not exceeding 4 m	CUM	1000		1000			
c	Depth exceeding 4 m but not exceeding 6 m	CUM	2000		2000			
103	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected materials from compulsorily excavated soil available within a lead upto 500m and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.							
a	Each layer compacted so as to achieve at least 95% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	10000		10000			
b	Each layer compacted so as to achieve at least 90% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	2500		2500			
c	Each layer compacted so as to achieve at least 85% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	3000		3000			
d	Each layer compacted so as to achieve at least 75% relative density in case of sandy soils as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	1250		1250			
104	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with selected materials directly from excavation and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.							
a	Each layer compacted so as to achieve at least 95% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM						
b	Each layer compacted so as to achieve at least 90% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	250		250			
c	Each layer compacted so as to achieve at least 85% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	200		200			
105	Extra over ST No. 101 to 103 for carriage of excavated earth/selected materials for every 1 km or part thereof beyond an initial lead of 500m.	CUM	90000	16335	106335			
106	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 250 mm thickness using/with approved borrowed soil (borrowed soil to be arranged by the bidder) and compacted as specified including supplying borrowed soil, royalty (if any), watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.							
a	Each layer compacted so as to achieve at least 95% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	75000		75000			
b	Each layer compacted so as to achieve at least 90% maximum dry density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL.	CUM	21000		21000			
107	Supplying and filling sand upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted so as to achieve at least 80% relative density as per relevant Syrian/BS Standards and/or approved by PEEGT/BHEL including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	CUM	2500		2500			
108	Filling in trenches, plinths, area paving and other underground structures with stone (63 mm down graded), in layers not exceeding 200 mm thickness including breaking of boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	7087		7087			
109	Filling in transformer pits etc. , with clean 40 mm nominal size stone aggregate etc. complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	125		125			
110	Bulldozing earth for grading of ground including removable of vegetation complete including disposal of debris upto 5 kms as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	1102		1102			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
200	PROVIDING AND PLACING CONCRETE WORK INCLUDING LABOUR, MATERIALS, EQUIPMENT, HANDLING, BATCHING, TRANSPORTING, MIXING, PUMPING, PLACING, LEVELING, VIBRATING, COMPACTING, CURING, TESTING, CLEANING AND RENDERING THE EXPOSED SURFACE WITH CEMENT SAND MORTAR TO GIVE A SMOOTH AND EVEN SURFACE, PREPERATION OF SCHEME FOR CONCRETING, GETTING IT APPROVED BY ENGINEER, MAINTAINING AND SUBMITTING RECORDS OF CONCRETING (EXCLUDING COST OF CENTERING, SHUTTERING, CHEMICAL/MEMBRANE CURING AND REINFORCEMENT) ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/EQUIVALENT BS STANDARDS AND AS APPROVED BY PEEGT/BHEL FOR THE FOLLOWING:							
201	Providing and laying cement concrete of grade M7.5 (150mm Cube strength at 28 days) of standard mix 1:4:8 (1Cement: 4Sand: 8Coarse Aggregate) with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity), coarse sand and graded hard stone aggregate of 40 mm nominal size as mass concrete filling/levelling course etc at any level below finished floor level, any shape, position or thickness etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/ equivalent BS standards and/or as approved by PEEGT/BHEL.	CUM	1500		1500			
202	Providing and laying cement concrete of grade M10 (150mm Cube strength at 28 days) of standard mix 1:3:6 (1Cement: 3Sand: 6Coarse Aggregate) with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity), coarse sand and graded hard stone aggregate of 40 mm nominal size as PCC/lean concrete below Foundations/Plinth Beams, mud mat under foundation/floor/grade slab, etc at any level below finished floor level, any shape, position or thickness etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/ equivalent BS standards and/or as approved by PEEGT/BHEL.	CUM	6150		6150			
203	Providing and laying cement concrete of grade M20 (150mm Cube strength at 28 days) of standard mix 1:1.5:3 (1Cement: 1.5Sand: 3Coarse Aggregate) with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 40 mm nominal size as grade slabs, cable trenches, tunnels, under floors, paving, pipe encasing etc. at any level above/below finished floor level, any shape, position or thickness etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/ equivalent BS standards and/or as approved by PEEGT/BHEL.	CUM	3725		3725			
204	Providing and laying Design Mix cement concrete of grade M30 (150mm Cube strength at 28 days) as per Syrian code or C25/30 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc at any level below finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer of approved make conforming to relevant BS standard to achieve required slump in concrete all complete as per specification & drawing and as approved by PEEGT/BHEL.	CUM	24850		24850			
205	Providing and laying Design Mix cement concrete of grade M30 (150mm Cube strength at 28 days) as per Syrian code or C25/30 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in superstructure at any level above finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer of approved make conforming to relevant BS standard to achieve required slump in concrete all complete as per specification & drawing and as approved by PEEGT/BHEL.	CUM	3500		3500			
206	Providing and laying Design Mix cement concrete of grade M25 (150mm Cube strength at 28 days) as per Syrian code or C20/25 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in superstructure at any level above finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer of approved make conforming to relevant BS standard to achieve required slump in concrete all complete as per specification & drawing and as approved by PEEGT/BHEL.	CUM	4000		4000			
207	Providing and laying Design Mix cement concrete of grade M30 (150mm Cube strength at 28 days) as per Syrian code or C25/30 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in Base Raft of T.G. Foundations, Machine foundations at all elevations below/above finished floor level except TG deck and top decks supported over vibration isolation system including addition of suitable plasticizer/ superplasticizer of approved make conforming to relevant BS standard to achieve a slump more than 125mm in concrete as per manufacturer's recommendation in any shape, position or thickness etc complete as per specification & drawing and as approved by PEEGT/BHEL.	CUM	5000		5000			
208	Providing and laying Design Mix cement concrete of grade M30 (150mm Cube strength at 28 days) as per Syrian code or C25/30 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in precast works like roof slabs/trench covers, fins, lintels, chajias, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transpoting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with M30 concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate (20/12.5/10 mm) all complete as per specification & drawing and as approved by PEEGT/BHEL.	CUM	1857		1857			
209	Providing and laying Design Mix cement concrete of grade M30 (150mm Cube strength at 28 days) as per Syrian code or C25/30 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in water retaining/conveying structures at any elevation below/above finished ground level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer of approved make conforming to relevant BS standard to achieve a slump more than 125 mm in concrete and conforming to limits of permeability as per as per specification all complete as per specification & drawing and as approved by PEEGT/BHEL.							
i)	Below Ground Level including providing with minimum two coats of bituminous painting of grade 65/25 @ 1.7 Kg/sqm for water/damp proofing conforming to relevant Syrian/BS standards and as approved by PEEGT/BHEL on soil face.	CUM	2473		2473			

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ii)	Above Ground Level	CUM	22		22				
210	Providing and laying Design Mix cement concrete of grade M35 (150mm Cube strength at 28 days) as per Syrian code or C30/37 as per BS8500 with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in top decks of all machine foundations supported on vibration isolation system (excluding supply and installation of vibration system) and top deck of TG foundation at all levels including addition of suitable plasticizer/superplasticizer of approved make conforming to relevant BS standard to achieve a slump more than 125 mm in concrete as per manufacturers recommendation, preparation of scheme for concreting, getting it approved by engineer, labour, materials, equipment, handling, batching, transporting, mixing, pumping, placing, leveling, vibrating, compacting, curing, testing, cleaning and rendering the exposed surface with cement sand mortar to give a smooth and even surface, maintaining and submitting records of concreting, all complete as per specification, drawing and instructions of engineer, including UPV testing as directed by engineer in charge, rectification of the defects in concreting observed by ultra-sonic pulse velocity (UPV) testing by non shrink cement/epoxy grout (as approved) etc, but excluding formwork, staging, reinforcement, embeddments and temperature control of concrete as per specification & drawing and as approved by PEEGT/BHEL. Payment terms - a) After casting 75% ; b) After receipt of ultrasonic test report - 25%.	Cum	1500		1500				
211	Extra over item 201 to 210 for using high sulphate resistant cement instead of moderate sulphate resistant cement.	Cum	5000		5000				
212	Extra over St. No. 205 to 210 for controlling of temperature of fresh concrete to less than 23 degree centigrade using ice, including all related arrangements for providing, storing and mixing of ice with water, cooling of aggregates etc., all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	1404		1404				
213	Extra over ST Nos. 205 to 209 for conducting UPV test for concrete at all levels including all equipments, making necessary arrangements, staging, submission of report etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	1000		1000				
214	Providing and encasing of structural steel member with concrete using coarse sand, nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh with proper lap etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for the following grades. (Payment of welded wire mesh, chicken wire mesh shall be made separately)								
i)	Cement concrete of grade M20 (150mm Cube strength at 28 days) of standard mix 1:1.5:3 (1Cement: 1.5Sand: 3Coarse Aggregate)	CUM	100		100				
ii)	Cement concrete of grade M25 (150mm Cube strength at 28 days) as per Syrian code or C20/25 as per BS8500	CUM	100		100				
215	Providing and laying screed concrete of grade M15 (150mm Cube strength at 28 days) of standard mix 1:2:4 (1Cement: 2Sand: 4Coarse Aggregate) using coarse sand and graded hard stone aggregate 12.5mm/6 mm nominal size on the roof at any level or thickness, drains etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	533		533				
216	Providing and laying concrete of grade M15 (150mm Cube strength at 28 days) of standard mix 1:2:4 (1Cement: 2Sand: 4Coarse Aggregate) using coarse sand and graded hard stone aggregate of 20 mm nominal size in plinth protection, pipe encasing etc at any level above/below finished floor level, any shape, position or thickness all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/ equivalent BS standards and/or as approved by PEEGT/BHEL.	CUM	65		65				
217	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.								
i)	Plain cement concrete of all grades	CUM	22		22				
ii)	Reinforced cement concrete of all grades	CUM	55		55				
218	Chipping of concrete in reinforced concrete work, cutting pockets, making openings at all levels and according to shapes, disposal of waste materials upto a lead of 2 km as directed by engineer including equipment, safety precautions, making good the broken surface etc all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL but excluding cutting of reinforcement .	CUDM	700		700				
219	Extra over and above St No 218 for cutting of reinforcement , all sizes and types including labour, equipment, return of cut reinforcement to store etc all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. Measurement shall be on the cross sectional area of reinforcement cut.	Sqcm	160		160				
220	Cutting Reinforced concrete with mechanised tools like Core drilling machine etc. for cutting pockets, holes, cores in slab, beam, column or foundation as per direction of engineer in charge.	CUDM	25		25				
221	Providing and applying chemical/membrane curing compound of approved make where ever required as per manufacturer's specification and/or as approved by PEEGT/BHEL.	SQM	7500		7500				
300	SUPPLYING, FIXING AND REMOVING FORMWORK AT ANY ELEVATIONS FOR ALL STRUCTURES, POCKETS ETC., INCLUDING ALL LABOUR MATERIAL, SCAFFOLDINGS, CENTEREING ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS & RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL FOR THE FOLLOWING:								
301	Supplying, fixing & removing fairface plywood form work with good quality water proof ply wood of required thickness and smooth surface below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc. complete for exposed concrete works etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	53000		53000				

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302	Supplying, fixing & removing fairface steel form work below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc. complete for exposed concrete works etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	26853		26853				
303	Supplying, fixing & removing fairface plywood form work with good quality water proof ply wood of required thickness and smooth surface above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches etc. complete for all heights etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	24000		24000				
304	Supplying, fixing & removing fairface steel form work above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches etc. complete for all heights etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	2179		2179				
305	Supplying, fixing & removing fairface plywood formwork with good quality water proof ply wood of required thickness and smooth surface for TG superstructure-fairface (above TG raft level) etc. complete for all levels below & above finished floor level etc. including all staging design, drawing, providing with required supports, braces, walkways, struts, anchors etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	3155		3155				
306	Providing, fixing and removing formwork in block-outs/pockets and openings (below 0.1 sqm plan area) at all elevations including cutting, formation of all shapes and all other operations required for making the required shape and size all complete as per specification, drawing, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.								
a	Upto 150 mm depth	Each	50		50				
b	Pockets of depths more than 150mm and upto 300 mm depth	Each	75		75				
c	Pockets of depths more than 300mm and upto 600 mm depth	Each	200		200				
d	Pockets of depths more than 600mm and upto 1000 mm depth	Each	200		200				
e	Pockets of depths more than 1000mm and upto 1500 mm depth	Each	30		30				
400	PROVIDING, STRAIGHTENING CUTTING, BENDING, PLACING IN POSITION AT ANY LEVEL, BINDING OF STEEL REINFORCEMENTS AND BINDING WIRE, LABOUR ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL FOR THE FOLLOWING:								
401	Providing, straightening cutting, bending, placing in position at any level, binding of mild steel reinforcements of diameter upto 12 mm of grade 250 as per BS:4482 in concrete including cost of reinforcement and binding wire, labour, scaffolding, transportation to & from stores etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	20		20				
402	Providing, straightening, cutting, bending, placing in position high yield strength steel reinforcements of grade B500B as per BS:4449 of diameter upto 32mm in concrete including cost of reinforcement and binding wire, labour, scaffolding, transportation to & from stores etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	4975		4975				
403	Providing, straightening cutting, bending, placing in position at any level, binding of mild steel reinforcements of diameter upto 12mm in blockwork including cost of reinforcement and binding wire, labour, scaffolding, transportation to & from stores etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	10		10				
404	Decoiling & Straightening reinforcement bars of grade B500 as per BS:4449 or Grade 250 as per BS:4482 for diameter upto 12mm for reinforcements supplied by BHEL including cost of labour, machine hiring, transportation to & from stores etc. for decoiling in required lengths all complete as per drawings, specifications, manufacturer's recommendations and/or as approved by PEEGT/BHEL.	MT	10		10				
500	PROVIDING, LAYING AND FIXING WATER PROOFING INCLUDING ALL LABOUR, MATERIAL, EQUIPMENT, HANDLING, MIXING, SCAFFOLDING, TRANSPORTING, TESTING ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING: (Contractor has to furnish a guarantee for material and workmanship for a minimum period of 20 years)								
502	Providing, laying & fixing light concrete over concrete roofs made of Borgani Sand and cement with minimum thickness of 80 mm with a minimum slope of 1:200 etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	11000		11000				
505	Providing, laying & fixing roof water proofing treatment using plastic paper (HDPE/Equivalent) of minimum thickness of 4mm etc. all complete including fixing, all materials, making groove in parapet wall, embedment in groove with Bitumen compound as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	11000		11000				
506	Providing, laying & fixing roof water proofing treatment using bitumen roofing (Aspal bitumen of suitable grade) of minimum 16mm thick, etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	11000		11000				
507	Providing & laying fine grained white gravel (minimum 5 mm thick) over Aspal bitumen layer for roof water proofing treatment all complete as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	11000		11000				
508	Providing, laying & fixing white roofing tiles of 5mm minimum thickness, etc. all complete for roof water proofing treatment as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	11000		11000				
509	Providing & laying three coats of bitumen painting and two layers of burlap for bathroom, toilet surface etc. all complete for proofing treatment as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	100		100				

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					In figures	In figures	In words	IN EUROS	
600	SUPPLYING, INSTALLATION, FILLING IN POSITIONS ETC. OF JOINT FILLER AND SEALING COMPOUND INCLUDING LABOUR, MATERIAL, EQUIPMENTS ETC. ALL COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:								
601	Bitumin impregnated fibre board as joint filler at joints in concrete including nailing, coating of both faces with coal tar pitch/bitumin etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.								
	i) 12mm thick joints.	SQM	3		3				
	ii) 20mm thick joints.	SQM	13		13				
	iii) 25mm thick joints.	SQM	100		100				
	iv) 50mm thick joints.	SQM	26		26				
602	Hot applied bitumin sealing compound (Grade A) including cleaning, mixing, heating, pouring/injecting sealing compound in gaps in joints at all levels including application of primer etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Kg	300		300				
603	Expansion joint - supplying & installation of pre-moulded joint filler in between equipment foundations, mat foundations, pile caps, walls, basement slabs etc. complete including labour, equipment and materials, sealing of joints including cost of sealing compound (polysulfide base sealant) etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for the following:								
	i) 25mm thick joints.	RM	500		500				
604	Expansion joint - supplying & installation of pre-moulded joint filler in between equipment foundations, mat foundations, pile caps, walls, basement slabs etc. complete including labour, equipment and materials, sealing of joints including cost of sealing compound (silicon base sealant) etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for the following:								
	i) 12mm thick joints.	RM	75		75				
	ii) 20mm thick joints.	RM	75		75				
700	PROVIDING, FABRICATING, TRANSPORTING, FIXING, ERECTING AND INSTALLING OF M.S. EMBEDMENTS AT ALL ELEVATIONS INCLUDING THE COST OF LABOUR, MATERIAL AND EQUIPMENT, SETTING MATERIAL IN CONCRETE, LAYOUT, SCAFFOLING, HANDLING AT SITE, CUTTING, FORMING, GRINDING, DRILLING, BOLTING, WELDING, RIVETTING, JOINTING, TESTING ETC. ALL COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:								
701	Providing, fabricating, transporting, fixing, erecting and installing of Mild Steel Embedments, MS inserts, pipe sleeves, guide rails, angle pieces, foundation bolts, anchor bolts, rungs of various diameters, plates of dimensions as required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	300		300				
702	Same as above with BHEL supplied material free of cost including loading, transportation, unloading etc. all complete from BHEL store to plant site.	MT	25		25				
703	Providing, fabricating, transporting, fixing, erecting and installing of embedments, inserts, pipe sleeves, rails, guide rails angle pieces, anchor bolts of various diameters, plates of dimensions as required including cost of all labour, materials and equipment for fixing in position, scaffolding and setting in position, transportation from stores within the plant boundary to work spot, loading, unloading etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	125		125				
704	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation/anchor bolt assembly conforming to grade 1 of relevant Syrian/ equivalent BS code in concrete along with nuts, lock nuts (relevant Syrian/ equivalent BS code), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	57		57				
705	Supplying, fabricating, erecting and installing following items in concrete/blockwork for all kind of works, including setting material in concrete, layout, scaffolding, cutting, forming, grinding, drilling, bolting, welding, jointing, testing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.								
	i MS pipes of all diameters	Quintal	50		50				
	ii PVC pipes / conduits of all diameters	RM	50		50				
	iii UPVC pipes / conduits of all diameters	RM	50		50				
	iv Expansion fasteners (mechanical galvanised) of HILTI make or equivalent of safe tensile capacity as specified below.								
	Upto 250 kg	Each	200		200				
	Beyond 250 Kg and upto 500 kg	Each	100		100				
	Beyond 500 Kg and upto 750 kg	Each	100		100				
	v Chemically fixed anchor fasteners of HILTI make or equivalent of safe tensile capacity as specified below for concrete work with expansion sleeve of stainless steel:								
	Upto 250 kg	Each	100		100				
	Beyond 250 Kg and upto 500 kg	Each	50		50				
	Beyond 500 Kg and upto 750 kg	Each	50		50				
800	PROVIDING AND GROUTING OF STRUCTURES INCLUDING COST OF MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, TESTING, PERFORMING RELEVANT OPERATIONS, ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:								
801	Providing & grouting with cement slurry mix of approved ratio using pressure pump for water retaining concrete structures as per approved procedure including cost of nipples/ nozzles, cement, admixture, curing, pressure pumps, slurry agitator etc. all complete. Cost shall include fixing of nipples at minimum 500 mm centre to centre spacing, cutting of nipples after completing of grouting, making good of the nipple hole with appropriate non-shrink cement paste, water tightness test etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	22		22				

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
802	Providing & grouting of pocket holes, pipe sleeves under base plates, machinery, pipe supporting structures etc. with mix 1:1 (1 cement :1 sand) using non shrink admixture etc. all Complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	20		20			
803	Providing & grouting of pocket holes, pipe sleeves and under base plate of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing etc. all complete with mix 1:1:2 (1 cement : 1 coarse sand : 2 aggregate of 6 mm down graded stonechips) using non shrink admixture etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (Cost of all material and cleaning the pocket by compressed air shall be in the scope of the contractor).	CUM	9		9			
804	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing etc. all complete with ConbextraGP-1 or equivalent as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	32		32			
805	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing, etc. all complete with Conbextra GP-2 or equivalent as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	24		24			
900	PROVIDING, FITTING AND FIXING IN POSITION DOORS, WINDOWS, VENTILATORS, LOUVERS, ROOF VENTILATORS, ROLLING SHUTTERS, PARTIONS, FRAMING, KICK PLATES, STOPPERS ETC. COMPLETE AT ALL ELEVATION INCLUDING THE COST OF LABOUR, MATERIAL AND EQUIPMENT, LAYOUT, SCAFFOLING, HANDLING AT SITE, TESTING ETC. ALL COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
901	Providing, fitting and fixing solid core flush door shutter as per relevant Syrian/BS standards and as approved by PEEGT/BHEL, 35 mm thick homogeneous water proof block board bonded with phenol formaldehyde synthetic resin conforming to relevant Syrian/BS standards and as approved by PEEGT/BHEL, 35X12 mm thick teak wood beading all around including preparation of working drawings, butt hinges, tower bolt, sliding bolt handles, knobs, door stoppers (all fitting shall be anodised aluminium color dyed), final synthetic paint over primer, screws etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	35		35			
902	Providing and fixing wooden frame made of best quality seasoned Canadian wood free from large or loose knots, cracks or other defects inclusive of sand paper smoothening, hold fasts, beading, primer including primer and finish painting / polishing with glossy finish laquer polish of high quality etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL with proper wood joinery, accurately set to required lines or levels and rigidly secured in place.	Cudm	1372		1372			
903	Providing, fitting and fixing panel door shutter with (35 mm thick, 150 mm wide vertical rail & 125 mm wide horizontal rail) Canadian wood shutter frame and (12 mm thick) interlocked panels of teakwood including beading, preparation of working drawings, godrej or equivalent make mortice lock with approved anodised fittings like door stopper, 300mm long tower bolts, 16x300mm long aldrops ,125mm long handles on both sides etc. brass butt hinges, sliding bolt ,knobs, (all fitting shall be anodised aluminium color dyed), screws, primer and finish painting / polishing with glossy finish laquer polish of high quality etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	28		28			
904	Providing and fixing hard wood frame made of approved quality seasoned wood free from large or loose knots, cracks or other defects inclusive of sand paper smoothening, hold fasts, beading, primer including final synthetic painting etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL with proper wood joinery, accurately set to required lines or levels and rigidly secured in place.	CUDM	455		455			
905	Providing and fixing steel single or double door shutters. Shutters shall be 45mm thk flush design comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm c/c. Side, top, bottom edges of shutter shall be of pressed steel channels of 1.2mm thk voids to be filled with mineral wool (48 kg/cum density) including all fittings like tower bolts, handles, stoppers, aldrops etc. and painting with minimum 2 coats of synthetic enamel paint on primer etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	138		138			
906	Providing and fixing fire proof steel doors (single or double shutter) with panic devices shall be 45mm thk flush design comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centers including all fittings, shop painting with approved post office/signal red color fire resistant paint and mineral wool insulation (64 kg/cum density) complete and shall be fire proof as per relevant Syrian/BS standards and as approved by PEEGT/BHEL, TAC requirements and as per specification. Minimum ratings shall be 2 Hrs.	SQM	115		115			
907	Providing and fixing anodised aluminium work of "Technal Type" of approved make for following with extruded standard tubular and other sections including all fittings & fixtures and accessories of approved make, anodised and electro color dyed to required shade (minimum anodic coating of grade AC15), fixed with rawl plugs, expansion fasteners, screws or with fixing clips, aluminium louvers, sliding/ fixed screens including security grills with necessary filling of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt for bi-metallic protection etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	KG	19357		19357			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
						In figures	In figures	In words
	The work should include preparation of working drawings, aluminium cleat angle, aluminium snap-on-beading for glazing/panelling, with all fittings and fixtures (like tower bolts, concealed handles, door stopper with rubber shoes, 'L' drops, window stays etc.), CP brass/stainless steel screws, providing and fixing hinges/pivots, and making provision for fixing of fitting wherever required including cost of PVC/EPDM gasket, silicon sealant sealing, hermetically sealed double glazing in windows, ventilators, etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL (Glazing shall be paid separately).							
908	Providing and fixing of over head hydraulic door closers of approved make & quality all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	89		89			
909	Providing and fixing floor mounted Hydraulic door closer of approved make & quality all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	8		8			
910	Providing and fixing pressed steel frames fabricated from 1.4 mm thk gauge M.S sheet mortised, reinforced strikes, hold fasts, adjustable floor anchors, floor tiles/weather bars, painting with minimum 2 coats of synthetic enamel paint on primer etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	KG	1663		1663			
911	Providing and fixing in position rolling shutters of approved make, made of hot rolled double dipped galvanized steel laths or anodised aluminium strips interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs top cover, 3 coats of approved enamel paint etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL- Mechanically operated.	SQM	39		39			
912	Providing and fixing in position rolling shutters of approved make as per relevant Syrian/BS standards and as approved by PEEGT/BHEL, made of hot rolled double dipped galvanized steel laths or anodised aluminium strips interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs top cover, 3 coats of approved enamel paint etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL- Hand operated.	SQM	14		14			
913	Providing and fixing in position rolling shutters of approved make as per relevant Syrian/BS standards and as approved by PEEGT/BHEL, made of hot rolled double dipped galvanized steel laths/aluminium strips interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs top cover, 3 coats of approved enamel paint etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL- Electrically operated.	SQM	171		171			
914	Providing, fitting and fixing of glazing of superior (selected) quality, first grade class, at various elevations, where required, cleaning after fixing, gaskets, clips, hardware, with all labour and material etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i)	4 mm clear plain float glass	SQM	110		110			
ii)	6 mm clear float glass	SQM	254		254			
iii)	6 mm wired glass	SQM	637		637			
iv)	6 mm thick polycarbonate sheet multi (twin) wall fire retardant and ultra violet resistant with sealed open edges.	SQM	55		55			
v)	4 mm ground glass	SQM	39		39			
vi)	Two nos. 6 mm thick clear toughened float glass hermetically sealed and separated by 12 mm thick gap for thermal insulation (only single elevation area to be measured).	SQM	83		83			
vii)	Two nos. 6 mm thick tinted toughened float glass hermetically sealed and separated by 12 mm thick gap for thermal insulation (only single elevation area to be measured).	SQM	28		28			
viii)	6 mm thick toughened float glass	SQM	180		180			
ix)	One outer 6mm thick tinted heat-reflecting type float glass and one inner 6mm thick plain float glass hermetically sealed and separated by 12 mm thick gap for thermal insulation (only single elevation area to be measured).	SQM	441		441			
x)	6 mm thick laminated glass	SQM	220		220			
915	Providing, fitting and fixing heavy duty minimum six lever mortised lock of godrej or equivalent make with handles or knobs to single and double leaf door (wooden/steel/aluminium) with duplicate set of keys and masterkeyed locks, openable from one side by the key and from the other side by the handle etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	47		47			
916	Providing and fixing PVC doors of sintex or equivalent make including all fitting & fixtures etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	88		88			
917	Supplying and fixing weather stripping of approved make and quality to doors etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	44		44			
1000	PROVIDING BLOCK WORKS IN CEMENT MORTAR IN WALLS, CHAMBERS ETC. INCLUDING SUPPLY OF MATERIAL, COST OF LABOUR, RAKING OUT JOINTS, CURING, SCAFFOLDING ETC. COMPLETE (EXCLUDING PLASTERING AND PAINTING) AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1011	Providing and laying 350mm thick double wall block work in cement mortar 1:5 (1 cement : 5 coarse sand) consisting of two layers of hollow concrete blocks 150mm thick each with 50mm air gap in between the layer for walls, chambers etc. at all heights, places and position above & below plinth level including raking out joints, curing, scaffolding, etc complete but excluding plastering and painting. Blocks should be factory made and of good quality with minimum crushing strength of 70 kg/cm ² etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standard and/or as approved by PEEGT/BHEL.	SQM	1500		1500			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
						In figures	In figures	In words
1012	Providing dovetail detailing in block works including anchoring of 2 nos.6mm reinforcement to columns at every fourth layer for double hollow concrete block walls etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	200		200			
1013	Providing and laying 200mm thick block work in cement mortar 1:5 (1cement : 5 coarse sand) for walls, chambers etc. at all heights, places and position above & below plinth level including raking out joints, curing, scaffolding, etc complete but excluding plastering and painting. Blocks should be factory made and of good quality with minimum crushing strength of 70 kg/cm2 etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standard and/or as approved by PEEGT/BHEL.	SQM	11525		11525			
1014	Providing dovetail detailing in block works including anchoring of 2 nos.6mm reinforcement to columns at every fourth layer for 200mm thick hollow concrete block walls etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	1500		1500			
1015	Providing and laying 150mm thick block work in cement mortar 1:5 (1cement : 5 coarse sand) for walls, chambers etc. at all heights, places and position above & below plinth level including raking out joints, curing, scaffolding, etc complete but excluding plastering and painting. Blocks should be factory made and of good quality with minimum crushing strength of 70 kg/cm2 etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standard and/or as approved by PEEGT/BHEL.	SQM	2425		2425			
1016	Providing dovetail detailing in block works including anchoring of 2 nos.6mm reinforcement to columns at every fourth layer for 100mm thick hollow concrete block walls etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	200		200			
1017	Providing, laying & fixing plasticsheet (HDPE/equivalent) of minimum thickness of 4mm etc. over blockwork with bitumen compound all complete including fixing, materials, wrapping over blockwork, complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	200		200			
1100	SUPPLYING, LAYING ETC. DAMP PROOF COURSE INCLUDING ALL MATERIALS LABOUR, SHUTTERING, CENTERING, CURING ETC., COMPLETE WITH THICKNESS AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1101	Providing Damp Proof Course 50mm thk. 1:1.5:3 concrete (10mm down aggregate) with 2% of approved admixture of water proofing compound. Hot bitumen of suitable grade @ 1.7kg/sqm shall be applied before & after the DPC etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	170		170			
1200	PROVIDING CEMENT MORTAR PLASTER/COAT INCLUDING COST OF ALL MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, EXECUTING, TESTING, PERFORMING ASSOCIATED OPERATIONS, SCAFFOLDING, CURING ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1201	Providing minimum 20mm thick plaster in multiple layers on concrete block walls, concrete walls, columns etc. in cement mortar 1:4 finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	15149		15149			
1202	Providing 12mm thick plaster on concrete block walls, concrete walls, columns etc. in cement mortar 1:4 , finished to a smooth finish as per specification all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	2714		2714			
1204	Providing 12mm thick plaster in cement mortar 1:4 on walls, drains/culverts with a paste of neat cement @ 1kg/sqm and rubbed smooth with trowel etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	335		335			
1205	Providing "Tieroleit" dash coat on concrete block walls and projections for exterior finish over blockwork etc. including first coat of high cement content spray with trowel, curing, rough plaster of minimum thickness 15mm and final coat of pigmented white cement spray etc. all complete to give a permanent finish as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	17895		17895			
1206	Providing 6mm thick plaster on ceiling in cement mortar 1:3 finished to a smooth finish all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	10066		10066			
1207	Providing and making float coating (surface layer) with about 50mm thickness on walls, columns with 1:1.3(cement:powder:stone chips mortar) all complete to provide a permanent finish as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	418		418			
1208	Providing Plaster of Paris/white putty 2 mm thick punning over finished plaster surface and finished with smooth surface etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	10015		10015			
1209	Providing screed/grading plaster of average 20 mm thickness in ratio 1:4 nominal by volume including finishing smooth and even at all levels above or below grade level etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	6835		6835			
1210	Providing and making decorative interior plaster of heritage finish over existing plastered surface of all types and design on walls, ceilings, arcs, columns including finishing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	165		165			
1211	Forming groove of uniform size from 12X12 mm upto 20X15 mm in plastered surface as per approved pattern, using wooden battens nailed to the under layer, including removal of wooden battens, repair of the edges of plaster panel and finishing the groove etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	110		110			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
1212	Providing drip course on plastered surface at all elevations for all type of work such as chajjas, parapet, projections etc. including scaffolding, finishing etc. complete with all labour, tools and plants etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	257		257			
1213	Providing and laying encasement to box type steel beams at all levels with lath plaster 50 mm nominal thickness with cement plaster (1:4) over galvanised hexagonal chicken wire of 0.9 mm wire diameter and 19 mm mesh size as per relevant Syrian/BS standards and as approved by PEEGT/BHEL including all labour, materials, equipment, handling, transporting, mixing, placing, leveling, curing and cleaning, finishing the exposed surfaces etc including centering and shuttering etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.(rate shall include the cost of GI chicken wire mesh)	SQM	1813		1813			
1300	PROVIDING AND APPLYING FINISHES, PAINTING TO CONCRETE, PLASTERED SURFACES, BLOCK WORK, ETC. WITH SURFACE PREPARATION INCLUDING COST OF ALL MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, EXECUTING, TESTING, PERFORMING ALL ASSOCIATED OPERATIONS ETC. COMPLETE WITH PAINTS OF REPUTED BRAND LIKE HEMPEL/BURGER/ASIAN PAINTS OR EQUIVALENT APPROVED BY PEEGT/BHEL) AS PER DRAWINGS, SPECIFICATIONS AND/OR APPROVED BY PEEGT/BHEL FOR THE FOLLOWING:							
1301	Providing and applying two or more coats of oil bound destemper (Oil based) of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface including plaster of paris punning of minimum 2 mm etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	901		901			
1302	Providing and applying two or more coats of acrylic emulsion paint of approved brand like Hempel/equivalent, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface or plaster of paris punning etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	12282		12282			
1303	Providing and applying two or more coats of chemical resistant chlorinated rubber paint of approved brand and colour on horizontal surface, vertical surface & ceiling including preparation of surface to receive paint, over one coat of bitumen primer etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	50		50			
1304	Providing and applying two or more coats of chemical resistant epoxy paint of approved brand and colour on horizontal surface, vertical surface & ceiling including preparation of surface to receive paint, over one coat of bitumen primer etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	50		50			
1305	Providing and applying two or more coats of cement paint (for internal use) of approved brand and manufacture to give an even shade including priming coat etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	416		416			
1306	Providing and applying two or more coats of acid/alkali resistant paint of approved brand and colour to floors, walls and ceiling including preparation of surface to receive paint, providing and applying bitumen primer at all heights above or below grade level etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	1068		1068			
1307	Providing and applying two or more coats of oil resistant paints epoxy based and ammine cured, 150 micron over primer of approved grade and manufacture to give an even shade etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	408		408			
1308	Providing and applying Resin bonded granular textured finish, for external applications shall consist of granular textured paint/ Synthetic plaster composed of synthetic fibre and petroleum based chemical similar to RENOVO or equivalent of approved natural color/shade applied on cured and dried plaster surface. The final finish shall have UV resistance, fungus, bacterial resistance properties all complete with grooves filled with poly sulfide sealant of matching color and shade etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.The make shall be approved by PEEGT/BHEL	SQM	3760		3760			
1309	Providing and applying two or more coats of water proof cement paint of approved make and color on exterior surface at all heights to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface or plaster of paris punning etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	2553		2553			
1310	Providing and applying two or more coats of weather paint of Asian make or approved equivalent make and color on exterior surface at all heights etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	230		230			
1400	FLOOR, WALL & CEILING FINISHES, DADO AND SKIRTING INCLUDING ALL MATERIALS, LABOUR, CURING, POLISHING, FINISHING, EXPANSION JOINTS, GROOVES, ETC. COMPLETE IN ALL RESPECTS AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1401	Providing and laying 50 mm thick heavy duty cement concrete in flooring with metallic hardener pigmented topping 12mm thick uniform graded treated iron particles in flooring. Under layer of 38mm thick cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates 12.5mm well graded) and top layer of 12mm thick metallic concrete of mix 1:2 (1 cement hardner mix with approved quality metallic hardening compound :2 stone aggregate 6mm nominal size) by volume including cement slurry, rounding off edges etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	20000		20000			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY		RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS	
1402	Providing and laying flooring & skirting of minimum 7 mm thick vitrified ceramic tiles of polished variety of size 600x600 from reputed / approved manufacturer having water absorption less than 0.08%, complete including underbed of minimum 20mm thickness cement mortar 1:3 with neat cement slurry etc. all complete to make a total flooring thickness of 50mm as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards (EN13006/EN176) and/or as approved by PEEGT/BHEL. of following minimum thickness.	SQM	477			477			
1403	Providing & fixing Acid & Alkali resistant Tiles of minimum thickness 20 mm thick in flooring/Dado . The tiles shall be abrasion resistant and durable and shall be laid over bitumastic lining of min 12mm thick (to be laid in layers of 6mm each). The tiles shall be applied with 6mm thick Potassium Silicate bedding mortar durable, strong and chemical resistant epoxy mortar including pointing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	300			300			
1404	Providing & fixing Acid & Alkali resistant Tiles of minimum thickness 38 mm thick in flooring/Dado . The tiles shall be abrasion resistant and durable. The 6 mm thick potassium silicate mortar used for setting or for under bed shall be durable strong and chemical resistant epoxy mortar including pointing etc. after laying bitumen primer and 12 mm thick bitumastic etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	50			50			
1405	Providing and laying of PVC flooring & skirting of minimum thickness 3 mm anti static flexible tiles foxed with adhesive etc. etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	310			310			
1406	Providing and fixing approved chequered concrete tiles of minimum thickness of 22mm including under layer of 28mm thick cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates 12.5mm well graded) with approved fixing materials etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	200			200			
1407	Providing and fixing of approved glazed ceramic tiles of approved color and design of approved size 200x300mm / 300x300mm in dado projecting 6mm uniformly from adjacent plaster or wall finish. The mix for underbed plaster shall consist of 1part cement and 3 parts sand by weight. fairly moist but firm, tiles shall be pressed over under bed by applying cement slurry including pigments, curing etc all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. Tile shall be of very good quality and approved make by PEEGT/BHEL and of thickness not less than 5mm.	SQM	100			100			
1408	Providing and laying polished italian marble of minimum 18mm thickness in flooring, concrete staircases, skirting, window & door periphery over minimum 20 mm thick underbed of 1 part cement and 4 parts coarse sand by weight mixed with sufficient water to form a stiff workable mass. The marble stone slabs laid over under-bed, pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry spread over the surface with fine joint finished including pigments, curing, grinding, making corners, granite polishing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	4331			4331			
1409	Providing Italian marble stone of minimum 12mm thickness in skirting/window edge wall lining projecting minimum 6mm from adjacent plaster etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	200			200			
1410	Providing and laying White/Black Natanz polished Granite stone of approved color and texture of minimum 18 mm thk in flooring over under bed of minimum 20mm thickness of 1 part cement and 4 parts coarse sand by weight mixed with sufficient water to form a stiff workable mass. The granite stone slabs/tiles is laid over pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry spread over the surface with fine joint finished including pigments, curing, grinding, granite polishing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	1200			1200			
1411	Providing and laying White/Black Natanz polished Granite stone of approved color and texture of minimum 12 mm thk in skirting, facia, slab top and dado including pigments, curing, grinding, granite polishing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	102			102			
1412	Providing and laying Red Yazd polished Granite stone of approved color and texture of minimum 12 mm thk in skirting, facia, slab top and dado including pigments, curing, grinding, granite polishing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	41			41			
1413	Providing and laying minimum 10 mm thk non-skid fully vitrified tiles of make 'MARBONITE' or 'FERRASTONE of BOSS Profile limited' or equivalent over 30 mm thick underbed of 1 part cement and 3 parts coarse sand by weight mixed with sufficient water, etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. laid in pattern of following sizes								
i)	400X400 mm	SQM	152			152			
ii)	600X600 mm	SQM	1312			1312			
1414	Providing and laying granite stone slab of minimum 18 mm thickness single piece for wash basin slab, wall of black or approved colour with making corners, cutting and opening etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	29			29			
1415	Providing and fixing dividing strips in joints of cast in situ floorings at various elevations, finishing, all labour, material etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.								
i)	Glass strips 40 mm wide and minimum 6 mm thick.	RM	3186			3186			
ii)	Aluminium strips 40 mm wide and minimum 3 mm thick	RM	1800			1800			
1416	Providing and laying 50 mm thick anti skid precast interlocking concrete pavers of approved shape including minimum 40 mm thick sand underbed etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	47			47			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
1417	Providing and fixing removable type flooring system consisting of fire resistant particle board of size 600X600X35 mm with 0.05 mm thick aluminium foil lining at bottom and with 2 mm thick anti static PVC topping including proprietary floor supporting system complete etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	105		105			
1500	PROVIDING AND ERECTING ROOFING/SIDE CLADDING INCLUDING FLASHINGS (NO SEPERATE PAYMENT SHALL BE PAID FOR FLASHINGS), LAPS, SCAFFOLDING HOOKS, WASHERS, CORNER PIECES, ETC. COST OF ALL MATERIAL, LABOUR, EQUIPMENT, CLEATS, SHEETING RUNNER, RAILS MILD STEEL WIND TIES (HORIZONTAL/VERTICAL) AND ANY OTHER STEEL WORKS ETC. AT ANY LEVEL COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1501	Design, supply & erection of permanent colour coated (hot dip) thermally insulated double skin sandwiched metal roofing of approved color for roof on Truss/Purlin comprising of profiled external & internal sheet of minimum 0.7 mm BMT (Bare Metal Thickness) permanently color coated steel having minimum yield strength of 350 Mpa with zinc-aluminium alloy coating not less than 275 gm/sqm total on both sides including fixing to supports / rails by concealed fixing system, corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing etc. all complete. The exposed face of the external sheet shall be permanently colour coated with Polyfluro Vinyl Coating (PVF2) of minimum dry film thickness (DFT) 20 microns over suitable primer and should fulfil the durability conditions as per relevant BS standard and as approved by PEEGT/BHEL. Inner face of the external sheet shall be provided with suitable pre-coating of minimum DFT 7 microns over suitable primer. The exposed surface of the inner sheet shall be permanently colour coated with silicon modified polyester paint of minimum dry film thickness (DFT) 20 microns over suitable primer and should fulfil the durability conditions as per relevant BS codes and as approved by PEEGT/BHEL. Other face of the sheet shall be provided with suitable pre-coating of minimum DFT 7 microns over suitable primer. The insulated sandwich metal roofing shall be designed for unsupported span of minimum 1500mm C/c spacing of purlins with special male/female side laps, covers, flashings and siphoning feature to seal completely and prevent leakage. Insulation to be paid separately	SQM	6500		6500			
1502	Providing and fixing insulation in sandwich metal roofing with resin bonded mineral wool of 50 mm nominal thickness conforming to relevant BS standard including glueing, supporting over wire mesh, wrapping in black polythene, tying fixing etc. complete and as approved by PEEGT/BHEL.	SQM	6500		6500			
1503	Providing and fixing insulation in sandwich metal roofing with polyurethane foam of required thickness to fill the gap between metal sheets as per relevant BS standard including glueing, tying fixing etc. complete and as approved by PEEGT/BHEL.	SQM	6500		6500			
1504	Designing, providing and fixing External sheet of Permanent colour coated metal cladding with high strength tensile steel sheet 0.7mm bare metal thickness having minimum yield strength 350 MPa and zinc-aluminium alloy coating not less than 275 gm/sqm total on both sides including fixing to supports / rails by concealed fixing system, corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing etc. all complete. The exposed face of the sheet shall be permanently colour coated with Polyfluro Vinyl Coating (PVF2) of minimum dry film thickness (DFT) 20 microns over suitable primer. Inner face of the sheet shall be provided with suitable pre-coating of minimum DFT 7 microns over suitable primer. The permanent colour coated sheet shall meet the general requirements as per relevant BS standard and as approved by PEEGT/BHEL. The complete sandwich sheeting should be designed as per BS standard for runner spacing of minimum 1300mmC/c spacing.	SQM	8184		8184			
1505	Designing, providing and fixing Inner sheet of Permanent colour coated metal cladding with troughed M.S. sheets of 0.7mm bare metal thickness having minimum yield strength 250 MPa and zinc-aluminium alloy coating not less than 275 gm/sqm total on both sides of both sheets including fixing to supports / rails by concealed fixing system, corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing, concealed clips (including sub-girts of size 50X50X50 mm manufactured out of 16G GI 'Z' shape) to connect the external sheet (without penetrating the external sheet) etc. all complete. The exposed surface of the sheet shall be permanently colour coated with silicon modified polyester paint of minimum dry film thickness (DFT) 20 microns over suitable primer. Other face of the sheet shall be provided with suitable pre-coating of minimum DFT 7 microns over suitable primer. The permanent colour coated sheet shall as per relevant BS standard and as approved by PEEGT/BHEL. The sheet shall be fixed at the rate not more than 1500mm center to center to hold the insulation and external sheeting.	SQM	9250		9250			
1506	Providing and fixing insulation of resin bonded mineral wool of 50 mm nominal thickness conforming to relevant BS standard and as approved by PEEGT/BHEL. Mineral wool insulation should be provided including application of glue and tying with lacing wire, for glass/rock wool as per manufacturer's recommendations	SQM	9250		9250			
1507	Providing and fixing 50 mm thick insulation of rockwool of density 48 KG/cum conforming to relevant Syrian/BS standards and as approved by PEEGT/BHEL including wrapping in black polythene black supported over weld mesh 75X75X1.6 MM dia to hold in position as per manufacturers recommendations, all labour, material, scaffolding, equipment etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	1294		1294			
1508	Providing and installing under deck insulation using minimum 0.05 mm thick aluminium foil on exposed surface followed by 0.56 mm dia and 25 mm mesh GI wire netting, fixed at various elevations with rawl plugs including clips, all labour, material, scaffolding, equipment etc (but excluding cost of insulation) all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	717		717			
1509	Providing and fixing non metal opaque PVC sheet similar to ONDEX roofing or equivalent including all fixing accessories, labour material, scaffolding etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	65		65			
1600	PROVIDING AND FIXING FALSE CEILING INCLUDING SUPPLY OF CEILING MATERIAL, WORKING LAYOUT DRAWINGS AND DETAILS, SUSPENSION SYSTEM AND ALL OTHER MATERIALS REQUIRED FOR THE WORK INCLUDING MAKING RECESS FOR LIGHT FIXTURES, ALUMINIUM DIFUSERS, FIRE ALARMS ETC., POLISHING/PAINTINGS, LABOUR ETC., ALL COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
						In figures	In figures	In words
1601	Providing and fixing glass fibre reinforced gypsum plaster board (GRG) ceiling (having gypsum core mixed with glass fibre) system consisting of metal supporting grid system forming panels of specified size, suspended from RCC slab/structural steel or catwalkway grid above with 4 mm (minimum) galvanised wires (rods) with special height adjustment clips, including preparation of working drawing, providing openings for AC ducts, return air grills, light fixtures etc (but excluding the cost of catwalkway grid) all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i)	12.5 mm thick GRG board with galvanised light gauge steel load bearing supporting GI frame and finished flat (Seamless).	SQM	52		52			
ii)	12.5 mm thick GRG board in tile of 600mmX600mm with double web design, galvanised steel with prepainted steel capping of approved shade and color, supporting Tee frame (24mmX38mm).	SQM	23		23			
1602	Providing and fixing permanently colour coated aluminium false ceiling of approved colour and Luxalon 84 C or approved equivalent with corrosion resistant aluminium alloy panels of minimum thickness 0.5mm including 50mm thick mineral wool insulation(density 48 kg/cum) conforming to relevant BS Standard bound in polythene bags on top of panels. Additional hangers and height adjustment clips, frames/supports for false ceiling shall be provided and provisions for return air grills, light fixtures, A.C. ducts etc all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	1500		1500			
1603	Providing & fixing suitable M.S. channel (minimum MC 75) grid @1200 c/c maximum s above the false ceiling level for movement of personnel to facilitate maintenance of lighting fixtures, AC ducts etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.(SUITABLE STRUCTURAL PLATFORM GRID MADE UP OF MS CHANNELS / BEAMS / ANGLES shall also be provided above the False Ceiling level for movement of personnel to facilitate maintenance (Materials for structural platform grid made up of Ms Channels/ Beams / Angles shall be paid under SI Item No 2301.)	SQM	1500		1500			
1700	PROVIDING AND FIXING RAIN WATER DOWN TAKE PIPES INCLUDING 2 COATS OF APPROVED PAINT OVER A PRIMARY COAT, ALL SPECIALS AND ACCESSORIES ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1701	GI down take pipes of following diameter.							
i)	100 mm dia	RM	25		25			
ii)	150 mm dia	RM	50		50			
iii)	200 mm dia	RM	35		35			
1702	Cast Iron down take pipes of following diameter.							
i)	100 mm dia	RM	75		75			
ii)	150 mm dia	RM	1200		1200			
iii)	200 mm dia	RM	150		150			
1703	High Density Polyethylene Corrugated down take pipes of following diameter.							
i)	100 mm dia	RM	11		11			
ii)	150 mm dia	RM	180		180			
iii)	200 mm dia	RM	23		23			
1704	Providing and fixing 20mm thick Glass Fibered Sectional Pipe Coverings for insulation of all concealed rainwater pipes above ceilings in office areas, all insulation shall be protected by a jacket and shall be secured in place by aluminium bands etc. all complete as per specifications and relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	112		112			
1800	PROVIDING MISCELLANEOUS ITEMS INCLUDING COST OF ALL MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, EXECUTING, TESTING, PERFORMING ALL ASSOCIATED OPERATIONS ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
1801	Providing and fixing PVC water stops 225mm wide, 6 mm thick all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	159		159			
1802	Supplying and installation of 25mm thick vibration damping, resilient pads around foundation of vibrating equipment and other locations as directed by the Engineer-in-charge including cost of all materials labour equipment etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	29		29			
1803	Providing 50mm thick premix carpet surfacing laid to slope in two layers 30mm and 20mm respectively with 12mm and down broken stone chips mixed with 80/100 grade bitumen @ 52 Kg/Cu.M including compaction and cost of all material, labour etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	599		599			
1804	Providing 50mm thick anticorrosive layer laid to slope consisting of compacted crushed stone screenings, fine gravel, clean sand or similar material as directed by the Engineer, mixed in hot asphalt 10% by volume and rolled or compacted complete as per drawings and specifications, below fuel oil tanks and at such other places etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	599		599			
1805	Providing and fixing aluminium strips minimum 18 SWG thk and 300mm wide over expansion joints with minimum lap of 50mm length including aluminium screws, rawl plugs etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	42		42			
1806	Providing, laying and fixing transformer rails including guide rails in concrete including joining of rails. Anchoring lugs etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	39		39			
1807	Providing and fixing weep holes in Drains consisting of 100 mm dia LDPE pipe sleeves along with single side covering for the pipe mouth with galvanised welded wire fabric of 20 mm sq. opening along with 300 X 300 mm sq., 300 mm deep, 40 mm aggregates to cover fabric mesh mouth etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	2000		2000			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
1808	Laying of earthing mats/rods including transportation from yard stores, loading, unloading, cutting to length, welding etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	114		114			
1811	Providing and fixing GI rungs in concrete/brick walls at all elevations including zinc coating of minimum 900 g/sqm all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	KG	765		765			
1813	Providing and fixing LDPE pipes in cable duct banks, openings in RCC work at all elevations of following sizes including cutting, fixing and levelling in position etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
	i) 100 mm dia	RM	600		600			
	ii) 150 mm dia	RM	450		450			
	iii) 200 mm dia	RM	450		450			
1814	Providing and fixing galvanised corrugated sheets on structural steel structure at all elevations including cutting, fixing and levelling in position etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	2000		2000			
1815	Providing and fixing HDPE - polyethylene 4 mm thick concrete protection in reservoir with studs at all elevations including cutting, fixing and levelling in position etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. The liner shall be installed before casting of concrete.	SQM	2500		2500			
2000	SUPPLYING & ERECTING FENCING AND GATES INCLUDING COST OF ALL MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, EXECUTING, TESTING, PERFORMING ALL ASSOCIATED OPERATIONS ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
2001	Supplying and erecting in position 2.4 m high PVC coated gavanised chain linked fencing of minimum 8 gauge (including PVC coating) of mesh size 75 mm and galvanised concertina. The diameter of the steel wire for chain link fencing excluding PVC coating shall not be less than 12 gauge. GI barbed wire fencing at top of chain link fencing shall be provided with 4 stands of height of 600 mm including all accessories etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	759		759			
2002	Supplying and fixing G.I. barbed wire in fencing including G.I clips etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	3		3			
2003	Supply, fabrication and installing in position and testing galvanised MS Gates out of channels, joists, angles, flats, plates, pipes & sheets including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, ball bearing arrangements, castor wheels, anti corrosive synthetic enamel painting over two coats of primer etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. with 600mm high GI barbed wire fencing at top etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	MT	4		4			
2100	PROVIDING WATER SUPPLY INCLUDING COST OF ALL MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, EXECUTING, TESTING, PERFORMING ALL ASSOCIATED OPERATIONS ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
2101	Providing and fixing in position tested heavy duty type chromium plated brass long neck bib cocks including sockets, union, nut etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for 15mm nominal bore.	Each	58		58			
2102	Providing and fixing in position heavy duty brass stop cock of approved quality including all specials etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for 15mm nominal bore.	Each	28		28			
2103	Providing and fixing in position heavy duty brass full way valve with wheel of approved quality etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for 25mm nominal bore.	Each	11		11			
2104	Providing and fixing in position heavy duty brass full way valve with wheel of approved quality etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for 50mm nominal bore .	Each	7		7			
2105	Providing and fixing GI pipes of class B-Medium complete with GI sockets, unions, elbows, tees, nipples etc. and clamps including cutting and making good the walls etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (internal work) 15 mm nominal bore.	RM	142		142			
2106	Providing and fixing GI pipes of class B-Medium complete with GI fittings a clamps including cutting and making good the walls etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (internal work) 20 mm nominal bore.	RM	110		110			
2107	Providing and fixing GI pipes of class B-Medium complete with GI sockets, unions, elbows, tees, nipples etc. and clamps including cutting and making good the walls etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (internal work) 25 mm nominal bore (N.B).	RM	110		110			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
2108	Providing and fixing GI pipes of class B-Medium complete with GI sockets, unions, elbows, tees, nipples etc. including trenching & refilling anti-corrosive paint etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (external work) 15mm nominal bore (N.B).	RM	71		71			
2109	Providing and fixing GI pipes of class B-Medium complete with GI sockets, unions, elbows, tees, nipples etc. including trenching & refilling anti-corrosive paint etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (external work) 20mm nominal bore (N.B).	RM	71		71			
2110	Providing and fixing GI pipes of class B-Medium complete with GI sockets, unions, elbows, tees, nipples etc. including trenching & refilling anti-corrosive paint etc. all complete as per drawings, specifications, and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (external work) 25mm nominal bore (N.B).	RM	71		71			
2111	Providing and fixing GI pipes of class B-Medium complete with GI sockets, unions, elbows, tees, nipples etc. including trenching & refilling anti-corrosive paint etc. all complete as per drawings, specifications and of Grohe/Equivalent make and as per relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. (external work) 50mm nominal bore (N.B).	RM	71		71			
2112	Providing and fixing of 5thk float glass mirror of approved size and make from reputed mirror manufacturer. Mirror shall be mounted with glass adjustable revolving CP brackets etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL. with CP screws as per specification.	Each	46		46			
2113	Providing and fixing 610mmx127mmx6mm thk clear glass with C.P Guard rails and mounted on C.P. brackets etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	46		46			
2114	Providing and fixing 20mm dia chromium plated M.S. pipes wall mounted towel rod towel rail (600X20mm) with C.P. brackets etc. including fittings of Grohe/equivalent, all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	12		12			
2115	Providing and fixing C.P. soap holder mounted with C.P. screws etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	46		46			
2116	Providing and fixing C.P. liquid soap dispenser. Dispenser shall be round and easily revolving with removable threaded nozzle and mounted on C.P. brackets etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	46		46			
2117	Providing and fixing glazed vitreous wall mounted paper holder with suitable cover cum cutter fitted with CP screws etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	13		13			
2118	Providing and fixing chromium plated brass shower rose with 15 or 20 mm inlet etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	6		6			
2119	Providing & fixing P.V.C. water tank (Syntex or equivalent) in position. The work to including making all necessary inlet & outlet pipes, fixture, ball cocks, valves at all heights and levels etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i)	2000 Litre capacity	Each	4		4			
ii)	5000 Litre capacity	Each	1		1			
2120	Providing and fixing approved stainless steel sink with integrated drainboard complete including painting the fittings, cutting and making good the wall where required as per specification. The work to be complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	2		2			
2121	Supplying & fabricating galvanised steel tank with 2.5 mm thk Galvanised steel plates and with Mild Steel stiffeners complete with all fitting and installations. The work to including making all necessary inlet & outlet pipes, fixture, ball cocks, valves at all heights and levels etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Kg	500		500			
2200	PROVIDING SANITARY WORKS INCLUDING COST OF ALL MATERIALS, LABOUR AND EQUIPMENT FOR HANDLING, EXECUTING, TESTING, PERFORMING ALL ASSOCIATED OPERATIONS ETC. COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
2201	Supply and fixing factory made, good quality glazed vitreous china Wash Basin of approved shape with R.S. or C.I. brackets painted white, 15mm chromium plated brass hot & cold faucets with nylon washers, chromium plated brass chain with rubber plug, 32mm chromium plated brass bottle trap and waste of standard pattern, 32mm dia chromium plated brass trap unions, plastic connection pipe with chromium plated nuts, fittings etc. of approved brand including cutting and making good the walls where required etc all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i)	White	Each	40		40			
ii)	Colored	Each	6		6			
2202	Providing and fixing factory made, good quality vitreous china acid/alkali resistant laboratory sink of size 600x450x200mm with all chromium plated brass fixtures of Grohe or equivalent make, connection pipe with cutting and making good the walls where required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	2		2			
2203	Providing and fixing stainless steel kitchen sink of size 610x510x200mm with all chromium plated brass fixtures of Grohe or equivalent make, connection pipe with cutting and making good the walls where required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	12		12			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
						In figures	In words	IN EUROS
2204	Providing and fixing factory made, siphon jet action, elongated bowl, white vitreous china, 40 mm top spud, flush valve with vacuum breaker and of good quality western type water closet with bidet of approved colour with valveless fittings, necessary C.P connections, all chromium plated brass fixtures of Grohe or equivalent make, with cutting and making good the walls where required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i	Floor mounted	Each	1		1			
ii	Wall mounted	Each	1		1			
2205	Providing and fixing factory made, good quality Syrian type water closet of approved colour with siphon, open front solid plastic seat and plastic cover, low level 12.5 litre glazed stone water flushing cistern with valveless fittings, necessary C.P connections, all chromium plated brass fixtures of Grohe or equivalent make, with cutting and making good the walls where required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	5		5			
2206	Providing and fixing factory made, good quality eastern typewater closet, with trap, cast iron/china flush tank etc. with fixtures of Grohe/equivalent with all connections all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	20		20			
2207	Providing and fixing factory made, good quality white vitreous china washout urinals with 20 mm top spud, 50 mm outlet connection wall hung, flush valve/sensors, lead pipes, gratings, CP bottle traps and necessary C.P fittings, all chromium plated brass fixtures of Grohe or equivalent make, with cutting and making good the walls where required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	35		35			
2208	Supply, laying and jointing factory made, good quality pvc pipes of standard manufacturers like Technobex/equivalent including bends, branches and all other necessary fittings, lead cocking, holder bats/clamps, cutting and making good the walls and floors, jointing, testing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i	75mm dia pipes	RM	75		75			
ii	110mm dia pipes	RM	100		100			
iii	160mm dia pipes	RM	25		25			
iv	200mm dia pipes	RM	150		150			
2209	Supply, laying and jointing heavy duty cast iron pipes including bends, branches and all other necessary fittings, lead cocking, a coat of bitumenous paint, M.S holder bats/clamps, cutting and making good the walls and floors, jointing, testing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.							
i	75mm dia pipes	RM	88		88			
ii	110mm dia pipes	RM	88		88			
iii	160mm dia pipes	RM	50		50			
iv	200mm dia pipes	RM	25		25			
2210	Providing, laying light duty non pressure RC pipes of kaheel or equivalent make with collars jointed with stiff mixture of cement mortar 1:2 including testing of joints etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for following diameters:							
i)	200mm	RM	50		50			
ii)	300mm	RM	50		50			
iii)	400mm	RM	80		80			
iv)	600mm	RM	100		100			
v)	800mm	RM	100		100			
v)	1000mm	RM	100		100			
2211	Providing and fixing C.I Manhole cover of size 600mmx450mm including frame from reputed manufacture etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	7		7			
2212	Providing and fixing circular heavy duty man hole cover of 600mm diameter with frame etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	1		1			
2213	Providing and fixing square mouth S.W Gully trap grade 'A' complete with CI grating, brick masonry chamber and watertight CI grating, brick masonry chamber and water tight CI cover with 300x300mm (inside) the weight of cover to be not less than 4.53 Kg and frame to be not less than 2.72 Kg etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for size 100x100mm P or S Type.	Each	5		5			
2214	Providing and fixing square mouth S.W Gully trap grade 'A' complete with CI grating, brick masonry chamber and watertight CI grating, brick masonry chamber and water tight CI cover with 300x300mm (inside) the weight of cover to be not less than 4.53 Kg and frame to be not less than 2.72 Kg etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for size 150x100mm P or S Type.	Each	2		2			
2215	Providing and fixing square mouth S.W Gully trap grade 'A' complete with CI grating, brick masonry chamber and watertight CI grating, brick masonry chamber and water tight CI cover with 300x300mm (inside) the weight of cover to be not less than 4.53 Kg and frame to be not less than 2.72 Kg etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL for size 150x150mm P or S Type.	Each	4		4			
2216	Providing and fixing C.I. floor traps with C.P jalli all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	58		58			
2217	Providing and installing approved brand single tap water cooler of 36L cooling capacity (effective cooling from 21 degree celsius to 10 degree celsius) all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	5		5			
2218	Providing and installing approved brand single tap water cooler of 50L cooling capacity all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	2		2			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
						In figures	In words	IN EUROS
2219	Providing and fixing white vitreous urinal partitions all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	Each	22		22			
2400	PROVIDING ROAD WORK INCLUDING SUPPLY OF MATERIAL, COST OF LABOUR, MACHINERY ETC ALL COMPLETE AS PER DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS, RELEVANT SYRIAN/BS STANDARDS AND/OR AS APPROVED BY PEEGT/BHEL UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:							
2401	Preparation of sub grade by excavating earth to required depth for all types of soil/rock, dressing to camber and consolidating the base including making good the undulation etc. and disposal of surplus earth within plant boundary etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM.	14400		14400			
2402	Providing, stacking and laying good quality sand as per Syrian practice for shoulder including watering, compaction with road roller to required camber etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM.	756		756			
2403	Providing & laying water bound macadam sub base course in layers of required thickness with crushed stone aggregates 90 to 40 mm down size, stone screening and blinding material including screening sorting, spreading to template and consolidation with road roller including carriage, spreading and consolidation of blinding material etc. complete to achieve 95% proctor density compaction etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM	6300		6300			
2404	Providing & laying base course in layers of required thickness with stone aggregate 60mm to 40mm size, stone screening with binding material including screening sorting, spreading to template and consolidation with road roller including carriage, spreading and consolidation of blinding material etc. complete to achieve 95% proctor density compaction. As per local practise, stone along with binding material can be brought from the natural deposits and compacted with layers to achieve 95% proctor density compaction etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	CUM.	6300		6300			
2405	Providing & laying bituminous pavement compacted base course of 80 mm with MC0 layer as per Syrian Standards with minimum density of 4 kg/cm2 including screening, sorting, spreading to template and consolidation with road roller including carriage, spreading, hot mix plant and consolidation of blinding material etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	19440		19440			
2406	Providing and laying bituminous pavement wearing course of 60 mm with RC layer with bitumen/asphalt in graded stone as per Syrian practice, minimum 5% by weight of gravel, of a suitable approved grade including scraping, cleaning with compressed air etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	19440		19440			
2407	Providing and laying paved concrete kerbstones of minimum grade M20 (150mm Cube strength at 28 days) of standard mix 1:1.5:3 (1Cement: 1.5Sand: 3Coarse Aggregate) with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) with 40 mm aggregate as sidewalks as per Syrian practice of a suitable approved grade including scraping, cleaning with compressed air etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	7560		7560			
2408	Providing and applying Tack coat of low viscosity liquid asphalt suitably sprinkled and of a suitable approved grade confirming to relevant Syrian/BS standards and as approved by PEEGT/BHEL as applicable @ 10 kg/10sqm for an untreated WBM surface including scraping, cleaning with compressed air etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	38880		38880			
2409	Providing and applying liquid seal coat comprising of an application of a layer of binder asphalt at the rate of 9.8kg/10sqm followed by a cover of stone chips at the rate of 0.09 cum/10sqm including rolling etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM.	38880		38880			
2410	Providing & laying Chamferred concrete kerbstones of minimum grade M20 (150mm Cube strength at 28 days) of standard mix 1:1.5:3 (1Cement: 1.5Sand: 3Coarse Aggregate) with moderate sulphate resisting cement (as per Syrian standrad or BS standard of approved make & quantity) with 40 mm aggregate and of shape as per detailed drawing including fixing in 13mm thk. cement mortar 1:2 in joints, finishing of joints with neat cement paste, making drainage opening where required etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	4800		4800			
2411	Providing & fixing perforated continuous strips made of cast iron or mild steel painted with bituminous paint including cutting, jointing etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	RM	900		900			
2412	Dismantling of existing road consisting of MCO layer and RC layer, kerb stone, preparing subgrade to receive new WBM including camber consolidation including disposal of debris within a lead of 1 Km etc. all complete as per drawings, specifications, manufacturer's recommendations, relevant Syrian/BS standards and/or as approved by PEEGT/BHEL.	SQM	500		500			
2500	PILING WORKS AS PER RELEVANT SYRIAN/BS STANDARDS/SPECIFICATIONS APPROVED BY PEEGT/BHEL:							
2501	Mobilisation of hydraulic rotary piling rigs and accessories capable of pile boring/drilling in all types of strata/installing various size of bored cast in situ RCC piles to project site and demobilisation of the same after completion of piling works etc all complete.	EACH	8		8			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
2502	Installation of Bored cast-in-situ RCC vertical pile as per relevant Syrian/BS Standards and/or the specifications approved by PEEGT/BHEL with diameter and length as specified (length to be measured from pile cut-off level to the bottom of pile) using Design Mix cement concrete of grade M30(150mm Cube strength at 28 days) as per Syrian code or C25/30 as per BS8500 with moderate sulphate resisting cement (as per Syrian standard or BS standard of approved make & quantity) with 20 mm nominal size stone aggregates with a minimum cement content of 400Kg per cum of concrete including providing all materials (but excluding reinforcement steel for which measurement/payment shall be made separately), boring/drilling in all types of soil, providing bentonite slurry and/or casing for stabilization of pile bore, flushing of pile bore, cleaning, providing plasticizer wherever required, breaking pile head to cut off level and exposing pile reinforcement for embedment in pile cap etc including empty boring from ground level to pile cutoff level etc all complete as per specification, drawing and as directed by the engineer-in-charge for the following.							
a	Pile with 600 mm diameter and 17 m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 30T & Lateral Load Capacity as 10 T.	Each	150		150			
b	Pile with 600 mm diameter and 8m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 15T & Lateral Load Capacity as 10 T.	Each	700		700			
c	Pile with 900 mm diameter and 17 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	Each	500		500			
d	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	Each	45		45			
e	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	Each	45		45			
f	Pile with 900 mm diameter and 8 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	Each	1150		1150			
2503	Extra over ST. No. 2502 for pile length more than the specified lengths below cut off level for the following.							
a	Pile with 600 mm diameter and 17 m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 30T & Lateral Load Capacity as 10 T.	RM	75		75			
b	Pile with 600 mm diameter and 8m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 15T & Lateral Load Capacity as 10 T.	RM	350		350			
c	Pile with 900 mm diameter and 17 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	RM	250		250			
d	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	RM	15		15			
e	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	RM	15		15			
f	Pile with 900 mm diameter and 8 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	RM	575		575			
2504	Rebate on ST.No.2502 for pile length less than the specified lengths below cut off level for the following.							
a	Pile with 600 mm diameter and 17 m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 30T & Lateral Load Capacity as 10 T.	RM	35		35			
b	Pile with 600 mm diameter and 8m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 15T & Lateral Load Capacity as 10 T.	RM	175		175			
c	Pile with 900 mm diameter and 17 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	RM	125		125			
d	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	RM	15		15			
e	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	RM	15		15			
f	Pile with 900 mm diameter and 8 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	RM	285		285			
2505	Extra over ST.No.2502 for boring/drilling in rock for a length approximately 3 times the diameter of pile, cleaning the pile hole, concreting etc all complete for the following.							
a	Pile with 600 mm diameter and 17 m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 30T & Lateral Load Capacity as 10 T.	RM	270		270			
b	Pile with 600 mm diameter and 8m length below cut off level with safe vertical load capacity in Compression as 130 T, vertical load capacity in Tension as 15T & Lateral Load Capacity as 10 T.	RM	1260		1260			
c	Pile with 900 mm diameter and 17 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	RM	1350		1350			
d	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 50T & Lateral Load Capacity as 20 T.	RM	122		122			
e	Pile with 900 mm diameter and 10 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	RM	122		122			
f	Pile with 900 mm diameter and 8 m length below cut off level with Safe vertical load capacity in Compression as 250 T, vertical load capacity in Tension as 25T & Lateral Load Capacity as 20 T.	RM	3105		3105			
2506	Conducting initial load test upto a maximum test load of 2.5 times the safe load capacity on single pile as specified in accordance with relevant Syrian/BS Standards and/or the specifications approved by PEEGT/BHEL including preparation of pile head for testing, necessary excavation, all arrangements of loading, unloading, test equipments/accessories, jacks, recording of results, labour, submission of test report but excluding the cost of installation of pile (installation of pile shall be paid separately) etc all complete as per specification, drawing and as directed by engineer in-charge for the following.							
a	For vertical compression test by cyclic load method							
i	For 600 mm diameter pile	Each	3		3			
ii	For 900 mm diameter pile	Each	7		7			

ST. NO	DESCRIPTION	UNIT	Main Plant	Levelling & Grading	TOTAL QTY	RATE (IN EUROS)		AMOUNT
					In figures	In figures	In words	IN EUROS
b	For lateral load test							
i	For 600 mm diameter pile	Each	3		3			
ii	For 900 mm diameter pile	Each	7		7			
c	For tension/uplift test							
i	For 600 mm diameter pile	Each	3		3			
ii	For 900 mm diameter pile	Each	7		7			
2507	Conducting routine load test on single job pile as specified in accordance with relevant Syrian/BS Standards and/or the specifications approved by PEEGT/BHEL including preparation of pile head for testing, necessary excavation, providing all arrangements of loading, unloading, test equipments/accessories, jacks, recording of results, labour, submission of test report etc but excluding the cost of installation of job pile complete as per specification, drawing and as directed by the engineer-in-charge for the following.							
a	For vertical compression test by maintained load method							
i	For 600 mm diameter pile	Each	9		9			
ii	For 900 mm diameter pile	Each	18		18			
b	For lateral load test							
i	For 600 mm diameter pile	Each	9		9			
ii	For 900 mm diameter pile	Each	18		18			
2508	Carrying out pile integrity test on 600mm/900mm diameter pile including all arrangements for test, equipments/accessories, materials, labour, submission of test report etc but excluding the cost of installation of job pile all complete as per specification and as directed by the engineer-in-charge.	Each	1295		1295			
LEVELLING AND GRADING CIVIL WORKS - BILL OF QUANTITY								
1	Earth work in stripping of top soil upto a minimum depth of 0.20 m below ground level so as to exclude all debris, grass, vegetation, bushes, trees having girth upto 300mm including roots and organic materials etc for levelling and grading including dressing to specified levels & grades and compacting the graded/stripped surface by manual/mechanical means, disposal of stripped materials within a lead upto 1km etc complete as per specification, drawing, relevant Syrian/British/equivalent international standards and/or as approved by PEEGT/BHEL.	SQM		66675	66675			
2	Earth work in filling for levelling and grading using approved quality of soil with compulsarily excavated earth available within a lead of 2km on prepared surface obtained by compacting with mechanical means including setting out, filling in horizontal layers not exceeding 250mm compacted thickness, spreading, sorting, breaking clods, re excavation if required, watering, compaction with proper moisture content so as to achieve atleast 95% of maximum dry density (modified Proctor density) as per Syrian/BS standards and or specifications approved by PEEGT/BHEL or equivalent international standards in case of cohesive soil/at least 85% relative density in case of cohesionless soil, dewatering (if required), testing, approaches, finishing to required lines, grades and slopes, levelling etc complete as per specification, drawing, relevant Syrian/British/equivalent international standards and/or as approved by PEEGT/BHEL.	CUM		5000	5000			
3	Earth work in filling for levelling and grading using borrowed soil (borrowed soil is to be arranged by the contractor at his own cost) on prepared surface obtained by compacting with mechanical means including setting out, filling in horizontal layers not exceeding 250mm compacted thickness, spreading, sorting, breaking clods, watering, compaction with proper moisture content so as to achieve atleast 95% of maximum dry density (Modified Proctor density) as per Syrian/BS standards and or specifications approved by PEEGT/BHEL or equivalent international standards, dewatering (if required), testing, approaches, finishing to required lines, grades and slopes, levelling etc complete as per specification, drawing, relevant Syrian/British/equivalent international standards and/or as approved by PEEGT/BHEL.	CUM		61675	61675			
						GRAND TOTAL		

NOTE: EVALUATION OF BIDS SHALL BE AS PER CLAUSE NO. 1.4 OF GCC

SEAL & SIGNATURE OF BIDDER