

EA CONSULTING PVT. LTD.

Establishment of Comprehensive High School in Sindh

Measurement Sheet

Schedule # 6

MISC. ITEM

S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
DADU, SINDH								
(1) ROAD WORK								
a	Providing, levelling & formation of sub grade including consolidating compaction with power roller as per Engineer	1	34.000	7.000	0.300	71.400	78.540	Cu.m
b	Earth Filling (outsoure) as per specification up to the formation level as per Engineer	1	34.000	7.000	1.200	285.600	314.160	Cu.m
c	Preparation of sub base course by supplying, spreading approved stone metal 25 mm to 12 mm gauge to approved quality in 150 mm thick including hand packing filling voids with sand, compacting 98% AASHO complete in all respect as per Engineer	1	31.000	5.000	-	155.000	170.500	Sq.m
d	Preparation of aggregate base coarse by supplying, spreading stone metal of approved grade to maximum 38 mm gauge in 150 mm thick of approved quality, compacting 100% as per modified AASHO complete in all respect as per Engineer	1	31.000	5.000	-	155.000	170.500	Sq.m
e	Providing & applying prime / tack coat with approved binder as per standard specification and instruction of the engineer complete in all respect as per Engineer	1	31.000	5.000	-	155.000	170.500	Sq.m
f	Providing & laying to proper line & grade 38mm thick pre mixed carpet with paver machine prepared to specified job mixed formula approved by the engineer including rolling proper line & grade level & Camber etc as per standard specification and instruction of the Engineer complete in all respect.	1	31.000	5.000	-	155.000	170.500	Sq.m
g	Providing & fixing pre-cast fair faced edge block / Kerb stone 3750 psi 6"x12"x12" including cost of cartage, excavation, form work with concrete haunching of 2250 psi lean concrete 1450 psi (4" thick)	2	35.000	-	-	70.000	77.000	R.m

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
(2)	R.O. PLANT & BORING COMPLETE WORK							
	Water Reverse osmosis filter Plant							
	Providing and installation, testing & commissioning of RO plant with boring to meet the capacity of sweet water of WHO STANDARDS as mentioned below and consisting of following items or conforming to bore hole water test complete in all respect							
a	Buffer tank of 500 L, PE material, covered top, overflow and drain line							
b	Filter feed pump of 0.55 Kw for 2 m ³ /h @ 35 mWc, Centrifugal, Cast iron body and stainless impeller, valve adjustment for flowrate.							
c	Sand filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
d	GAC filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
e	Ultraviolet disinfection of 0.045 Kw for 3m ³ /h max. capacity, 10 bar max. pressure, 45 watt operating power, one lamp, complete AISI 304 stainless steel screwed pipe connection, c/w control panel.							
f	Flowmeter of 10 to 200 % capacity measuring range, volumetric measurement pipe mounted screwed connection.							
g	Pipe & fitting of main water line: Epoxy painted carbon steel, Gravity water line: uPVC in shaded area-Epoxy painted carbon steel in direct sun light exposure, Air Line: uPVC under water epoxy painted carbon steel outside water, Chemical line: uPVC and / or ABS, PP,EE , Flanged connections above 3" and screwed connections up to 3", Valve, reducers, bends, control and gate valve necessary auxiliaries and all fittings.							
h	Single level switches of float type suitable for wastewater							
j	Electrical items and control panel of seimens and schneider components, phase sequence & protection, fan and alrm, interconnecting cabling.							
k	Engineering package of project design process, application projects & calculation and drawings (General, Architwctural, Mechanical, Electrical & Automation). Shipment scheduling, container listing. Operation and maintenance manuals, installation manual certificates.							
l	Spare parts for two years pump sealing, glands for filter feed pump.							
m	Spare parts for two years UV pump	1	-	-	-	1.000	1.00	Job.

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
SHAHDAD KOT, SINDH								
(1) ROAD WORK								
a	Providing, levelling & formation of sub grade including consolidating compaction with power roller as per Engineer	1	77.000	7.000	0.300	161.700	177.870	Cu.m
b	Earth Filling (outsoure) as per specification up to the formation level as per Engineer	1	77.000	7.000	1.200	646.800	711.480	Cu.m
c	Preparation of sub base course by supplying, spreading approved stone metal 25 mm to 12 mm gauge to approved quality in 150 mm thick including hand packing filling voids with sand, compacting 98% AASHO complete in all respect as per Engineer	1	76.000	5.000	-	380.000	418.000	Sq.m
d	Preparation of aggregate base coarse by supplying, spreading stone metal of approved grade to maximum 38 mm gauge in 150 mm thick of approved quality, compacting 100% as per modified AASHO complete in all respect as per Engineer	1	76.000	5.000	-	380.000	418.000	Sq.m
e	Providing & applying prime / tack coat with approved binder as per standard specification and instruction of the engineer complete in all respect as per Engineer	1	76.000	5.000	-	380.000	418.000	Sq.m
f	Providing & laying to proper line & grade 38mm thick pre mixed carpet with paver machine prepared to specified job mixed formula approved by the engineer including rolling proper line & grade level & Camber etc as per standard specification and instruction of the Engineer complete in all respect.	1	76.000	5.000	-	380.000	418.000	Sq.m
g	Providing & fixing pre-cast fair faced edge block / Kerb stone 3750 psi 6"x12"x12" including cost of cartage, excavation, form work with concrete haunching of 2250 psi lean concrete 1450 psi (4" thick)	2	80.000	-	-	160.000	176.000	R.m

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
(2)	R.O. PLANT & BORING COMPLETE WORK							
	Water Reverse osmosis filter Plant							
	Providing and installation, testing & commissioning of RO plant with boring to meet the capacity of sweet water of WHO STANDARDS as mentioned below and consisting of following items or conforming to bore hole water test complete in all respect							
a	Buffer tank of 500 L, PE material, covered top, overflow and drain line							
b	Filter feed pump of 0.55 Kw for 2 m ³ /h @ 35 mWc, Centrifugal, Cast iron body and stainless impeller, valve adjustment for flowrate.							
c	Sand filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
d	GAC filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
e	Ultraviolet disinfection of 0.045 Kw for 3m ³ /h max. capacity, 10 bar max. pressure, 45 watt operating power, one lamp, complete AISI 304 stainless steel screwed pipe connection, c/w control panel.							
f	Flowmeter of 10 to 200 % capacity measuring range, volumetric measurement pipe mounted screwed connection.							
g	Pipe & fitting of main water line: Epoxy painted carbon steel, Gravity water line: uPVC in shaded area-Epoxy painted carbon steel in direct sun light exposure, Air Line: uPVC under water epoxy painted carbon steel outside water, Chemical line: uPVC and / or ABS, PP,EE , Flanged connections above 3" and screwed connections up to 3", Valve, reducers, bends, control and gate valve necessary auxiliaries and all fittings.							
h	Single level switches of float type suitable for wastewater							
j	Electrical items and control panel of seimens and schneider components, phase sequence & protection, fan and alrm, interconnecting cabling.							
k	Engineering package of project design process, application projects & calculation and drawings (General, Architwctural, Mechanical, Electrical & Automation). Shipment scheduling, container listing. Operation and maintenance manuals, installation manual certificates.							
l	Spare parts for two years pump sealing, glands for filter feed pump.							
m	Spare parts for two years UV pump	1	-	-	-	1.000	1.00	Job.

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
KHAIR PUR, SINDH								
(2)	R.O. PLANT & BORING COMPLETE WORK							
	Water Reverse osmosis filter Plant							
	Providing and installation, testing & commissioning of RO plant with boring to meet the capacity of sweet water of WHO STANDARDS as mentioned below and consisting of following items or conforming to bore hole water test complete in all respect							
a	Buffer tank of 500 L, PE material, covered top, overflow and drain line							
b	Filter feed pump of 0.55 Kw for 2 m3/h @ 35 mWc, Centrifugal, Cast iron body and stainless impeller, valve adjustment for flowrate.							
c	Sand filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
d	GAC filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
e	Ultraviolet disinfection of 0.045 Kw for 3m3/h max. capacity, 10 bar max. pressure, 45 watt operating power, one lamp, complete AISI 304 stainless steel screwed pipe connection, c/w control panel.							
f	Flowmeter of 10 to 200 % capacity measuring range, volumetric measurement pipe mounted srewed connection.							
g	Pipe & fitting of main water line: Epoxy painted carbon steel, Gravity water line: uPVC in shaded area-Epoxy painted carbon steel in direct sun light exposure, Air Line: uPVC under water epoxy painted carbon steel outside water, Chemical line: uPVC and / or ABS, PP,EE , Flanged connections above 3" and screwed connections up to 3", Valve, reducers, bends, control and gate valve necessary auxiliaries and all fittings.							
h	Single level switches of float type suitable for wastewater							
j	Electrical items and control panel of seimens and schneider components, phase sequence & protection, fan and alrm, interconnecting cabling.							
k	Engineering package of project design process, application projects & calculation and drawings (General, Architwctural, Mechanical, Electrical & Automation). Shipment scheduling, container listing. Operation and maintenance manuals, installation manual certificates.							
l	Spare parts for two years pump sealing, glands for filter feed pump.							
m	Spare parts for two years UV pump	1	-	-	-	1.000	1.00	Job.

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
SHAHEED BENAZIRABAD, SINDH								
(1) DISMANTLING WORK								
1	Dismantling work of Existing Old R.C.C. building including (sub structure & Super structure) and disposal of debris as per instruction of the Engineer	1	-	-	-	1.000	1.000	Job.
(2) ROAD WORK								
a	Jungle bushes / tree cutting including disposal from the site as per instruction of Engineer	1	-	-	-	1.000	1.000	Job.
b	Providing, levelling & formation of sub grade including consolidating compaction with power roller as per Engineer	1	47.000	7.000	0.300	98.700	108.570	Cu.m
c	Earth Filling (outsoure) as per specification up to the formation level as per Engineer	1	47.000	7.000	2.000	658.000	723.800	Cu.m
d	Preparation of sub base course by supplying, spreading approved stone metal 25 mm to 12 mm gauge to approved quality in 150 mm thick including hand packing filling voids with sand, compacting 98% AASHO complete in all respect as per Engineer	1	46.000	5.000	-	230.000	253.000	Sq.m
e	Preparation of aggregate base coarse by supplying, spreading stone metal of approved grade to maximum 38 mm gauge in 150 mm thick of approved quality, compacting 100% as per modified AASHO complete in all respect as per Engineer	1	46.000	5.000	-	230.000	253.000	Sq.m
f	Providing & applying prime / tack coat with approved binder as per standard specification and instruction of the engineer complete in all respect as per Engineer	1	46.000	5.000	-	230.000	253.000	Sq.m
g	Providing & laying to proper line & grade 38mm thick pre mixed carpet with paver machine prepared to specified job mixed formula approved by the engineer including rolling proper line & grade level & Camber etc as per standard specification and instruction of the Engineer complete in all respect.	1	46.000	5.000	-	230.000	253.000	Sq.m
g	Providing & fixing pre-cast fair faced edge block / Kerb stone 3750 psi 6"x12"x12" including cost of cartage, excavation, form work with concrete haunching of 2250 psi lean concrete 1450 psi (4" thick)	2	50.000	-	-	100.000	110.000	R.m

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
(3)	R.O. PLANT & BORING COMPLETE WORK							
	Water Reverse osmosis filter Plant							
	Providing and installation, testing & commissioning of RO plant with boring to meet the capacity of sweet water of WHO STANDARDS as mentioned below and consisting of following items or conforming to bore hole water test complete in all respect							
1	Buffer tank of 500 L, PE material, covered top, overflow and drain line							
2	Filter feed pump of 0.55 Kw for 2 m ³ /h @ 35 mWc, Centrifugal, Cast iron body and stainless impeller, valve adjustment for flowrate.							
3	Sand filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
4	GAC filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
5	Ultraviolet disinfection of 0.045 Kw for 3m ³ /h max. capacity, 10 bar max. pressure, 45 watt operating power, one lamp, complete AISI 304 stainless steel screwed pipe connection, c/w control panel.							
6	Flowmeter of 10 to 200 % capacity measuring range, volumetric measurement pipe mounted screwed connection.							
7	Pipe & fitting of main water line: Epoxy painted carbon steel, Gravity water line: uPVC in shaded area-Epoxy painted carbon steel in direct sun light exposure, Air Line: uPVC under water epoxy painted carbon steel outside water, Chemical line: uPVC and / or ABS, PP,EE , Flanged connections above 3" and screwed connections up to 3", Valve, reducers, bends, control and gate valve necessary auxiliaries and all fittings.							
8	Single level switches of float type suitable for wastewater							
9	Electrical items and control panel of seimens and schneider components, phase sequence & protection, fan and alrm, interconnecting cabling.							
10	Engineering package of project design process, application projects & calculation and drawings (General, Architwctural, Mechanical, Electrical & Automation). Shipment scheduling, container listing. Operation and maintenance manuals, installation manual certificates.							
11	Spare parts for two years pump sealing, glands for filter feed pump.							
12	Spare parts for two years UV pump	1	-	-	-	1.000	1.00	Job.

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
SANGHARH, SINDH								
(1) ROAD WORK								
a	Providing, levelling & formation of sub grade including consolidating compaction with power roller as per Engineer	1	66.000	7.000	0.300	138.600	152.460	Cu.m
b	Earth Filling (outsoure) as per specification up to the formation level as per Engineer	1	66.000	7.000	1.200	554.400	609.840	Cu.m
c	Preparation of sub base course by supplying, spreading approved stone metal 25 mm to 12 mm gauge to approved quality in 150 mm thick including hand packing filling voids with sand, compacting 98% AASHO complete in all respect as per Engineer	1	65.000	5.000	-	325.000	357.500	Sq.m
d	Preparation of aggregate base coarse by supplying, spreading stone metal of approved grade to maximum 38 mm gauge in 150 mm thick of approved quality, compacting 100% as per modified AASHO complete in all respect as per Engineer	1	65.000	5.000	-	325.000	357.500	Sq.m
e	Providing & applying prime / tack coat with approved binder as per standard specification and instruction of the engineer complete in all respect as per Engineer	1	65.000	5.000	-	325.000	357.500	Sq.m
f	Providing & laying to proper line & grade 38mm thick pre mixed carpet with paver machine prepared to specified job mixed formula approved by the engineer including rolling proper line & grade level & Camber etc as per standard specification and instruction of the Engineer complete in all respect.	1	65.000	5.000	-	325.000	357.500	Sq.m
g	Providing & fixing pre-cast fair faced edge block / Kerb stone 3750 psi 6"x12"x12" including cost of cartage, excavation, form work with concrete haunching of 2250 psi lean concrete 1450 psi (4" thick)	2	69.000	-	-	138.000	151.800	R.m

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S.No	Description	No	Measurement			Qty	Total Qty. I/c 10%	Unit
			L	W	D/H			
B. R.O. PLANT & BORING COMPLETE WORK								
	Water Reverse osmosis filter Plant							
	Providing and installation, testing & commissioning of RO plant with boring to meet the capacity of sweet water of WHO STANDARDS as mentioned below and consisting of following items or conforming to bore hole water test complete in all respect							
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c	Sand filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
d	GAC filter of 0.30*1.45 m (dia*height), FPR body structural tank, automatic FLECK valve operation							
e	Ultraviolet disinfection of 0.045 Kw for 3m ³ /h max. capacity, 10 bar max. pressure, 45 watt operating power, one lamp, complete AISI 304 stainless steel screwed pipe connection, c/w control panel.							
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k	Engineering package of project design process, application projects & calculation and drawings (General, Architwctural, Mechanical, Electrical & Automation). Shipment scheduling, container listing. Operation and maintenance manuals, installation manual certificates.							
l	Spare parts for two years pump sealing, glands for filter feed pump.							
m	Spare parts for two years UV pump	1	-	-	-	1.000	1.00	Job.