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							Items for Tender for 'Road Resurfacing and Patching works'	
				Arch. In Charge: Aaron Abela A.&C.E.				
				Ref: Attached Drawing No.				
				Asfaltar Const. Ltd.	Elle's Urban Services Ltd.	Catbros Ltd.	Schembri Barbros Ltd.	Polidano Bros. Ltd.
<i>Item</i>	<i>Description</i>	<i>Units</i>	<i>Rate</i>	<i>Rate</i>	<i>Rate</i>	<i>Rate</i>	<i>Rate</i>	
Preamble								
The rates quoted shall include all items required to complete the entire job. No extra payments will be accepted.								
All tasks shall be started and continued until completion without delays. All works shall be completed within the timeframes stipulated.								
No open works shall be left open overnight unless there is prior approval by the Local Council under special circumstances.								
All rates are to include carting away of all excess materials to an approved dumping site, and related dumping charges.								
Rates quoted shall also include for all traffic management (including warden costs) and safety measures required.								
No other mobilisation charges will be accepted.								
Any deviations from the above conditions will make the contractor liable to penalties and actions stipulated in this tender document.								
1 Site Clearance								
1.01	Oversite excavation in loose material up to the required levels. Rate is to include carting away from site of any unused material to an approved dumping site and all required dumping charges.	cu.m	25.00	20.00	18.60	15.00	20.00	
1.02	Oversite excavation in rock to the required levels. Rate is to include carting away from site of any unused material to an approved dumping site and all required dumping charges.	cu.m	25.00	20.00	28.90	24.00	20.00	

1.03	Taking up of agricultural soil and put aside for re use.	cu.m	10.00	11.50	10.50	7.50	4.66
1.04	Taking up of agricultural soil and remove from site.	cu.m	15.00	17.00	10.50	10.00	4.66
1.05	Taking up of existing concrete kerbs, load and cart away resulting debris to approved dumping site. Rate shall include dumping charges.	l.m.	2.50	4.60	2.90	3.00	2.80
1.06	Taking up of existing concrete pavement, load and cart away resulting debris to approved dumping site. Rate shall include dumping charges.	sq.m.	5.00	4.50	3.95	3.70	4.19
1.07	Trimming back existing surface to a vertical face with rotary saw.	l.m.	2.50	3.00	2.90	2.87	3.00
1.08	Demolish single leaf masonry wall 225mm thick. Rate is to include carting away from site of any unused material to an approved dumping site and all required dumping charges.	sq.m.	10.00	8.00	9.50	7.14	6.26
1.09	Demolish masonry wall 460mm thick. Rate is to include carting away from site of any unused material to an approved dumping site and all required dumping charges.	sq.m.	15.00	13.00	18.00	13.86	12.52

2 Trenching Works

2.01	Excavate trench in loose material up to category U1, U2 and 5A inclusive. Rate to include any shoring and carting away from site to an approved dumping site and any required dumping charges						
	Up to 1000mm deep (inclusive)	cu.m	25.00	19.80	31.00	14.70	23.00
	From 1000mm to 2000mm deep	cu.m	30.00	22.00	31.00	16.80	23.00
	Over 2000mm deep	cu.m	35.00	24.50	31.00	19.95	23.00

2.02	Excavate trench in rock. Rate to include any shoring and carting away from site to an approved dumping site and any required dumping charges.						
	Up to 1000mm deep (inclusive)	cu.m	25.00	24.50	38.00	16.80	23.00
	From 1000mm to 2000mm deep	cu.m	30.00	26.80	38.00	17.85	23.00
	Over 2000mm deep	cu.m	35.00	29.00	38.00	21.00	23.00
2.03	Supply, transport and lay in proper gradient and alignment uPVC pipes and fittings with suitable approved joints, manufactures to BS EN 140-1:1998 Type UNI 303/2 and with class rigidity SN2 SDR 51 with the following dimensions:						
	200mm	l.m.	15.00			33.60	22.54
	250mm	l.m.	20.00	18.80	45.00	36.75	26.70
	300mm	l.m.	35.00	25.00	65.00	44.10	27.65
	400mm	l.m.	40.00	29.70	57.00	85.00	52.25
	500mm	l.m.	85.00	69.00	93.00	120.00	54.72
2.04	Provide, spread, level and vibrate C20 concrete surround to required levels in trench.	cu.m	120.00	86.00	105.00	97.65	76.40
2.05	Provide, spread, level and vibrate lean concrete, C7, as per Series 2600 clause 2603 in trench.	cu.m	40.00	50.00	43.00	38.85	16.00
2.06	Construct block masonry storm water gully as per ADT construction drawing (RCD500/15 Volume 3 Road Works Regulations 2003), comprising of excavation, support, backfilling and disposal, concrete base, concrete blockwork chamber, complete with connection to main pipe, and finishing off.						
	300 x 300mm	no.	140.00	174.00	430.00	147.00	50.00
	600 x 600mm	no.	180.00	291.00	700.00	204.75	75.00

2.07	Construction of Type B manhole as per ADT construction drawing RCD500/6 (Volume 3 Road Works Regulations 2003)with internal dimensions 1000mm x 1050mm. Comprising of excavation, support, backfilling and disposal, concrete base, concrete blockwork chamber, concrete cover slab, concrete benching to main and branch pipe; step irons. Internal walls finished smooth.						
	1000mm invert	no.	1000.00	690.00	980.00	294.00	466.00
	1500mm invert	no.	1500.00	1048.00	1200.00	367.50	582.00
	2000mm invert	no.	2000.00	1397.00	1800.00	472.50	699.00
2.08	Supply, transport, and install cover and frame heavy duty D400 to EN 124 - Items to be Ductile Iron, hinged, lockable, sealed, and certified non-rocking. Rate is also to include the casting of the 'ADT' Logo						
	600mm Diameter Manhole Cover and Frame	no.	200.00	250.00	290.00	108.93	160.00
	600mm wide Rainwater Channel and Frame	l.m.	400.00	420.00	100.00	92.76	190.00
	600x600mm Gratings and Frame	no.	200.00	250.00	320.00	128.17	180.00
	450x450mm Gratings and Frame	no.	200.00	200.00	290.00	85.62	119.00
	300x300mm Gratings and Frame	no.	200.00	151.00	275.00	85.62	70.00
2.09	Manufacture, transport and lay in trench prefabricated reinforced U channels concrete C25 with internal dimensions 1500mm deep and 1000mm wide. Reinforcement is to be measured seperately.	l.m.	360.00	582.00	140.00	-	370.00
2.10	Connection of house drainage pipes to main sewer	no.	400.00	81.00	450.00	420.00	200.00
3 Footpath Works							
3.01	Supply and lay 255mm high precast concrete kerbs 1000mm long, laid to curves not exceeding 12m radius. Rate is to include for the provision and laying of unreinforced concrete Grade C15 as bedding and backing to concrete kerb.	l.m.	12.00	16.00	10.50	10.08	12.00

3.02	Supply and lay 255mm high precast concrete kerbs 1000mm long, laid straight or curves exceeding 12m radius. Rate is to include for the provision and laying of unreinforced concrete Grade C15 as bedding and backing to concrete kerb.	l.m.	12.00	14.00	10.50	11.03	12.00
3.03	Supply and lay 100mm thick insitu concrete, C20, mix in footway. Rate is to include for granular Type 1 sub-base beneath concrete, the formation of joints at 5m centres and brush finish surface.	sq.m	10.00	10.50	10.90	10.24	9.35
3.04	Supply and lay concrete paving blocks in footpaths. Rate is to include for all the necessary sand bedding, sand grouting and compaction of the same material.	sq.m	25.00	27.30	24.50	17.85	17.31
3.05	Construction of insitu concrete gutter C30 beneath kerbs, 200mm wide by 100mm deep. Rate includes all required excavation and formwork.	l.m.	4.00	8.15	3.90	4.20	3.50
3.06	Levelling of W.S.C. stop cock covers.	no.	10.00	12.00	10.50	1.05	8.00
3.07	Supply deliver, lay and level new W.S.C stop cock covers, if requested by architect in charge.	no.	15.00	20.00	20.00	1.58	12.50
3.08	Modify existing inspection chambers by lowering or raising the RC slab.	no.	25.00	25.00	18.00	26.25	53.00
3.09	Supply, deliver and lay new RC slab if requested by architect in charge..	no.	35.00	9.50	12.90	42.00	35.00
3.10	Supply and lay 110mm dia light gauge PVC for rain water house discharge in footpaths.	l.m.	10.00	18.00	10.90	4.20	5.82
3.11	Supply, deliver and lay PVC Gutters for storm water overflow from residential units to edge of kerb, including covers and concrete surround.	l.m.	30.00	29.00	32.00	12.60	6.53

3.12	Supply, deliver and lay linear drainage Channel Type with galvanized steel grating for storm water overflow from residential units to edge of kerb, including concrete surround.	l.m.	90.00	54.00	60.00	12.60	200.00
3.13	Supply, deliver and lay PVC boxes 150mm x 150mm in pavements including C15 concrete surround.	no.	25.00	17.50	29.00	12.60	15.72

4 Road Works

4.01	Surface cold milling resulting material taken by contractor for his own use (every 100mm thick).	sq.m	0.90	3.00	2.90	4.20	2.50
4.02	Surface cold milling resulting material taken by contractor for re-use (every 100mm thick).	sq.m	0.90	3.50	2.90	4.20	2.50
4.03	Supply, deposit and compact in layers Type 1 granular base course material.	cu.m	16.00	19.80	18.90	12.95	12.30
4.04	Supply, deposit and compact in layers scarified material.	cu.m	16.00	13.90	16.00	8.93	6.00
4.05	Supply, deposit and compact in layers Type A sub-base material.	cu.m	15.00	12.75	18.00	10.50	7.00
4.06	Supply and spray tack coat between base and wearing course.	sq.m	0.40	0.70	0.55	0.21	0.60
4.07	Supply, level and compact 150mm cement stabilisation material.	sq.m	6.00	39.00	55.00	6.30	5.77
4.08	Modification of manhole covers up to the required road level. Rate is to include transport to site and fixing of CI covers. Works to be in accordance to Manual of Contract Document for Road Works-Volumes 2.		90.00	58.00	110.00	36.37	53.00

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4.09	Supply, transport and lay asphalt concrete 0/25mm for Base Course 60mm thick in carriage way, hard shoulder and hardstrip.	sq.m	10.80	11.70	8.90	13.91	10.88
4.10	Supply, transport and lay asphalt concrete 0/19mm for Binder Course 60mm thick in carriage way, hard shoulder and hardstrip.	sq.m	11.20	12.75	8.90	15.75	10.88
4.11	Supply, transport and lay asphalt concrete 0/12.5mm for Wearing Course 40mm thick in carriage way, hard shoulder and hardstrip.	sq.m	7.60	9.90	8.00	13.65	7.26
4.12	Supply, transport and lay asphalt concrete 0/19mm for Base Wearing Course 80mm thick in carriage way, hard shoulder and hardstrip.	sq.m	15.20	15.49	15.20	18.90	14.51
4.13	Supply, transport and lay asphalt concrete 0/19mm for Base Wearing Course 100mm thick in carriage way, hard shoulder and hardstrip.	sq.m	19.00	19.30	19.00	24.15	18.14

5 Patching Works							
5.01	Cut the edge of the pothole (area less than 1 square metre) excavate for and lay Instant Road Repair asphalt paving mixture in accordance to specifications and approved mix designs. Rate is to include for necessary bituminous binder required.	pothole	12.00	6.50	5.75	131.25	18.80
5.02	Cut the edge of the patch (area from 1 sq. metre up to 3 sq. metres) excavate for, provide, lay and compact wearing course 50mm hot asphalt. Include sealing of joints using a bitumen emulsion and sweeping area clean. Ditto.	sq.m	25.00	16.30	12.10	33.60	11.90

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5.03	Cut the edge of the patch (area from 3 sq. metres up to 30 sq. metres) excavate for, provide, lay and compact wearing course 50mm hot asphalt. Include sealing of joints using a bitumen emulsion and sweeping area clean.	sq.m	25.00	16.30	12.10	33.60	11.90
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6 Masonry Works							
6.01	Supply and fix 4mm torch welded membrane to vertical and horizontal surfaces.	sq.m	7.00	9.30	12.90	7.25	6.80
6.02	Supply and lay horizontal damp proof course.	l.m.	7.00	2.30	2.30	3.68	0.50
6.03	Construct 230mm thick single leaf stone walls quarry faced both sides including any weep holes.	sq.m	16.00	20.00	16.00	21.00	14.39
6.04	Construct 230mm thick single type hollow concrete blockwork walls.	sq.m	17.00	20.00	16.50	23.10	17.52
6.05	Extra over for C20 concrete infill in blockwork walls.	sq.m	10.00	15.14	12.50	11.55	11.26
6.06	Construct 230mm double type hollow concrete blockwork walls.	sq.m	18.00	22.00	17.00	24.15	35.04
6.07	Construct 180mm thick soft stone walls.	sq.m	17.00	19.00	16.00	19.95	13.76
6.08	Construct 180mm thick hollow concrete blockwork walls.	sq.m	18.00	21.00	16.00	19.95	16.90
6.09	Extra over for item 7.03 for fair face on one side.	sq.m	5.00	1.60	2.00	-	1.37
6.10	Extra over for item 7.03 for fair face on both sides.	sq.m	5.00	8.00	4.00	-	2.74

6.11	Extra over for raking out joints to external masonry walls to provide 'fuq il-fil' finish. The joints shall be raked out to a depth of 12 mm and pointed with the mortar specified. The pointing shall be applied in two coats.	sq.m	10.00	8.15	8.00	14.70	6.88
6.12	Render external masonry walls in two coats. The first coat shall consist of cement/xahx/sand in the proportions of (1:1:2) and 8mm thick, and the second coat shall be 8mm thick and consist of cement/xahx/sand (1:1:6) with rough textured finish. Rate is to include for painting for one coat.	sq.m	5.00	8.00	8.00	7.88	9.70
6.13	Supply and place 1000 mm x 1000 mm x 1000 mm precast concrete blocks as directed to retain material on side of the road.	no.	70.00	105.00	4.00	168.00	37.00

7 Concrete Works							
7.01	Supply and lay Grade C20 concrete coping. Rate is to include for all necessary formwork.	l.m.	30.00	8.75	35.00	12.60	8.66
7.02	Provide, transport, lay and finish off as directed on site, reinforced concrete C20 strip foundation underneath retaining walls. Rate is to include for all necessary formwork. Reinforcement is to be measured seperately.	cu.m	160.00	19.80	12.00	99.75	26.73
7.03	Supply, lay and finish off as directed on site reinforced concrete ground slab, C20 concrete 100 mm (4") thick. Reinforcement is to be measured seperately	sq.m	10.00	11.50	7.90	10.08	12.59
7.04	Supply and spread C25, 150mm thick suspended slab with 1xC503 Mesh.	sq.m	35.00	14.00	12.80	27.30	27.50
7.05	Extra over for additional 25mm (1") thickness of concrete C25 to suspended slab.	sq.m	5.00	3.20	2.30	3.36	2.80

7.06	Grouting of prestressed hollow concrete planks with C30 concrete up to 300mm high.	cu.m	15.00	4.65	4.50	10.50	2.95
7.07	Grouting of prestressed hollow concrete planks with C30 concrete above 300mm high.	cu.m	20.00	5.75	6.90	15.75	2.95
7.08	Supply and spread concrete spreader beam ('suletta') mix C25. Reinforcement is to be measured seperately.	cu.m	300.00	465.00	325.00	357.00	212.00
7.09	Supply and spread concrete mix C.25 to upstand or downstand beams and columns. Rate is to include for all the necessary formwork. All reinforcement measured seperately.	cu.m	450.00	582.00	420.00	609.00	330.00
7.10	<p>Steel Reinforcement</p> <p>High yield steel reinforcement including bending, cutting, fixing and lapping as per BS 8666 of the following dimensions:</p> <p>(a) 25mm diameter bars;</p> <p>(b) 20mm diameter bars;</p> <p>(c) 16mm diameter bars;</p> <p>(d) 12mm diameter bars;</p> <p>(e) 10mm diameter bars;</p> <p>(f) A252 mesh fabric</p> <p>(g) A98 mesh fabric;</p> <p>(h) C503 mesh fabric.</p>						
		kg.	1.00	2.00	1.60	1.31	1.18
		kg.	1.00	2.00	1.60	1.31	1.18
		kg.	1.00	2.00	1.60	1.31	1.18
		kg.	1.00	2.00	1.60	1.31	1.18
		sq.m	8.00	7.00	2.60	2.89	3.27
		sq.m	4.00	3.50	2.40	1.16	1.69
		sq.m	6.00	7.00	2.90	2.57	3.53