

شركة معاد الشرق للمقاولات العامة
EAST MAAD GENERAL CONTRACTING EST

CR#: 2051242962
VAT #: 300414698200003



Committed To Quality Service



EAST MAAD GENERAL CONTRACTION EST



EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



The High Standard Pipe (**EMAAD**) is a fine example of how success can be achieved when a company is committed to excellence in every area of its operations.

Be it a new product launch, human resources development, investment in the latest technologies, upgrading of manufacturing facilities, formulation of policies and procedures, creation of healthy work environment or attending to a customer's needs, the goal of **EMAAD** has always been the same. **EMAAD** has committed to providing its customers with quality products and services that satisfies their realistic requirements.

EXCELLENCE IN PRODUCTS:

EMAAD supplies **uPVC** pipe for Soil, Waste, Duct, CONDUIT PVC and underground applications; Polyethylene pipes for irrigation and potable water distribution for residential and commercial buildings; pressure pipes for cold water supply, agricultural and industrial applications. **EMAAD** also offers electrical CONDUIT PVC and cable duct pipes as well as sewerage pipes. These products are meet various international quality standards.

EXCELLENCE IN MEETING INTERNATIONAL STANDARDS:

Proof of **EMAAD**'s commitment to quality can be seen from the fact that its products meet the high nationally recognized standards of manufacture. These Standard's include **BS, ASTM, DIN, NEMA** and **AS** specifications.

EXCELLENCE IN HUMAN RESOURCES:

EMAAD takes pride in its team of highly experienced and skilled professionals. The team is committed to providing efficient and cost-effective solutions for customers backed by reliable after-sales support. **EMAAD** has continuous in-house training programs to update the skills of its professionals so that they continue to perform to the very high standards expected of them.

EXCELLENCE IN INFRASTRUCTURE:

EMAAD developed a very sophisticated supply facility. These investments ensure superior products for our customers and enhance our leadership position at the domestic level, that's why the company is one of the best in the region and products are quality tested by independent labs from **PAK, UK**, and **USA** to meet the expected high international standards.

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



EXCELLENCE THROUGH CUSTOMER SATISFACTION:

new thinking, new beginning...

We say the customer is the best judge. **EMAAD** is proud to have a long list of satisfied customers, most of them engaged in the key sectors of developing. The customers include UNICEF, DACAAR, US Corps, Ministry of Water & Power, Ministry of Urban Development and PRT

PRESSURE PIPES:

- 1) ASTM -D 1785-94, Sch. 40, Sch. 80 and Sch. 120.
- 2) ASTM D-2241 SDR Series.
- 3) BS-3505-86 Class B, C, D and E.



NON - PRESSURE PIPE

- 1) BS - 3505 Class O
- 2) DIN 19534



uPVC Sewer Pipes (-Gravity) According to DIN 8061 / DN 8062 Application:

Sewer Pipe Gravity

uPVC Pipes:

Nominal Size (min)	OUTSIDE DIAMETER MM		WALL THICKNESS MM		Weight Kg/m
	(D)	Tolerance	(S)	Tolerance	
110	110	0.3	3.2	+0.6	1.64
160	160	0.4	3.2	+0.7	3.440
200	160	0.4	5.9	+0.8	5.370
250	250	0.5	7.3	+1.0	8.310
315	315	0.6	9.2	+1.2	13.2
400	400	0.7	11.7	+1.4	21.1
500	500	0.9	14.6	+1.7	32.90
630	630	1.1	16.4	+2.2	52.2

Where High Standard Pipe Goes, Water Flows!

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



uPVC Drain, Waste, Vent Pipe according to ASTM D - 2265 Application: Drain, Waste, Vent.

uPVC Pipes:

Nominal OD (MM)	OUTSIDE DIAMETER MM		WALL THICKNESS MM		Weight Kg/m
	MIN	MAX	MIN	MAX	
1 ½	42.03	42.29	3.56	4.1	0.65
1 ½	48.11	48.41	3.68	4.19	0.77
2	60.17	60.47	3.91	4.42	1.04
3	88.7	89.1	5.49	6.15	2.14
4	114.1	114.5	6.02	6.73	3.05
6	168	168.56	7.11	7.98	5.37
8	218.7	219.46	8.18	9.17	8.11

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



1.1 uPVC Underground & Sewer Pipe:

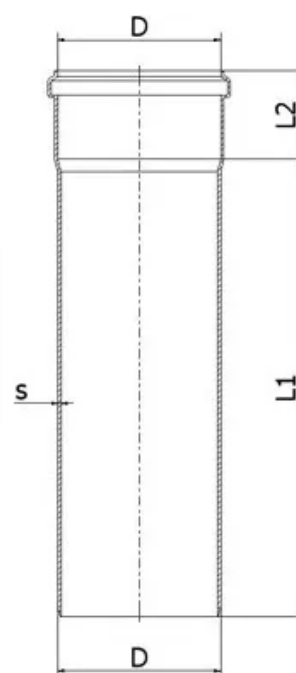
BS 4660				
Nominal Size mm	Outside Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
110 (4")	110.0	110.4	3.2	3.8
160 (6")	160.0	160.6	4.1	4.8

BS 5481				
Nominal Size mm	Outside Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
200	200.0	200.6	4.9	5.6
250	250.0	250.7	6.1	7.0
315	315.0	315.9	7.7	8.7
400	400.0	401.0	9.8	11.0

Manufactured to	: BS 4660 -(110) 4" (160) 6"
	: BS 5481
Standard length	: 5.8 & 6 meters
Colour	: Golden Brown
Socket type	: Solvent weld, Rubber Seal Ring & Plain-end

Note:

- 1) All commonly used dimensions normally ex-stock delivery for other sizes on request.
- 2) A wide range of compatible fittings manufactured to DIN 19534 are available.
- 3) A wide range of compatible fittings manufactured to BS 4660 by UK is available.



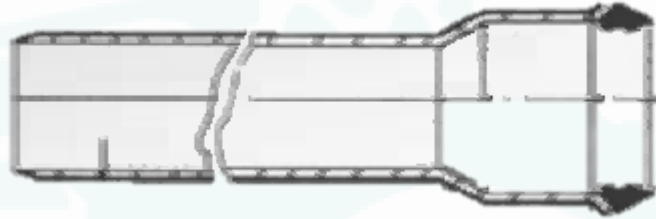
EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



uPVC Drain Pipe (Above Ground):

new thinking, new begining...



DIN 19531				
Nominal Size mm	Mean Outside Diameter (X) mm		Wall Thickness (Y) mm	
	Minimum	Maximum	Minimum	Maximum
40	40.0	40.2	1.8	2.2
50	50.0	50.2	1.8	2.2
75	75.0	75.3	1.8	2.2
110	110.0	110.3	2.2	2.7
160	160.0	160.4	3.2	3.8

Manufactured to : DIN 19531
Standard length : 4,5.8 & 6 metres
Colour : Gray
Socket type : Plain-end, Solvent Weld or Rubber Seal Ring (75mm and above)

Note:

All commonly used dimensions normally available, delivery for other sizes on request.

Where High Standard Pipe Goes, Water Flows!

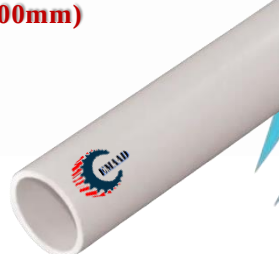
EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT PVC	CONDUIT PVC
38mm HG (2.5mm) 2.9M/U 	25mm HG (1.9mm) 2.9M/U, White 
PART #: EMAD-BSP-5	PART #: EMAD-BSP-3-WT

CONDUIT PVC	CONDUIT PVC
20mm MG (1.6mm) 2.9M/U, White 	25mm LG (1.2mm), EN 61386, White 
PART #: EMAAD-BMP-2-WT	PART #: EMAAD-BLP-3-WT

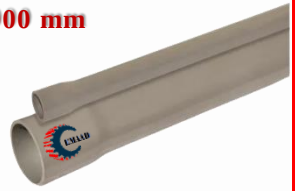
CONDUIT PVC	CONDUIT PVC LIGHT GAUGE
20mm LG (1.4mm), EN 61386, White 	20x1.4mm EN 61386, White (2900mm) 
PART #: EMAAD-BLP-2-WT	PART #: BLP-2L-WT

Where High Standard Pipe Goes, Water Flows!

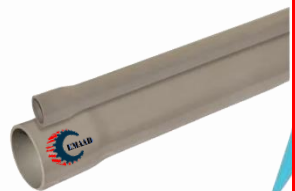
EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT 6" X 5.2MM BS 3506-1969 Class-B, Grey 3000 mm 	CONDUIT 4" X 4MM BS 3506-1969 Class-B, Grey 3000 mm 
PART #: EMAAD-BIP/160-B-3	PART #: EMAAD-BIP/140-B-3

CONDUIT 110X8.2MM SASO 14-15 1998 Equivalent to Din 8061/8062 Class 5 6000mm 	CONDUIT 75x5.6mm SASO 14-15 1998 Equivalent to Din 8061/8062 Class 5 6000 mm 
PART #: EMAAD-BCVP/110	PART #: EMAAD-BCVP/075

CONDUIT 50X3.7MM SASO 14-15 1998 Equivalent to Din 8061/8062 Class 5 6000 mm 	CONDUIT UPVC Class 3 (6 Bar) 200mm, 6M/U 
PART #: EMAAD-BCVP/050	PART #: EMAAD-BCTP/200

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC Class 3 (6 Bar) 110mm, 6M/U, White 	CONDUIT UPVC Class 3 (6 Bar) 110mm, 6M/U 
PART #: EMAAD-BCTP/110-W	PART #: EMAAD-BCTP/110
CONDUIT UPVC Class 3 (6 Bar) 90mm, 6M/U 	CONDUIT UPVC Class 3 (6 Bar) 75mm, 6M/U 
PART #: EMAAD-BCTP/090	PART #: EMAAD-BCTP/075
CONDUIT UPVC Class 3 (6 Bar) 63mm, 6M/U 	CONDUIT UPVC Class 4 (10 Bar) 160mm, 6M/U 
PART #: EMAAD-BCTP/063	PART #: EMAAD-BCFP/160

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC CLASS 4 (10 BAR) 140MM, 6M/U 	CONDUIT UPVC CLASS 4 (10 BAR) 110MM, 6M/U 
PART #: EMMAD-BCFP/140	PART #: EMAAD-BCFP/110
CONDUIT UPVC CLASS 4 (10 BAR) 110MM, 6M/U 	CONDUIT UPVC CLASS 4 (10 BAR) 90MM, 6M/U 
PART #: EMAAD-BCFP/110	PART #: EMAAD-BCFP/090
CONDUIT UPVC CLASS 4 (10 BAR) 75MM, 6M/U 	CONDUIT UPVC CLASS 4 (10 BAR) 50MM, 6M/U 
PART #: EMAAD-BCFP/075	PART #: MEMAAD-BCFP/050

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC CLASS 4 (10 BAR) 75MM, 6M/U 	CONDUIT UPVC CLASS 4 (10 BAR) 50MM, 6M/U 
PART #: EMAAD-BCFP/075	PART #: MEMAAD-BCFP/050

CONDUIT UPVC CLASS 4 (10 BAR) 32MM, 6M/U 	CONDUIT UPVC 160X3.2MM CLASS 2, 6M/U 
PART #: EMAAD-BCFP/032	PART #: EMAAD-BCDP/160

CONDUIT UPVC 110X2.2MM CLASS 2, 6M/U 	CONDUIT UPVC SCH.80 NEMA TC2 8", GREY 6M/U 
PART #: EMAAD-BCDP/110	PART #: EMAAD-BAC/8200-6

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC SCH.80, 8" NEMA TC2, 3M/U, GREY 	CONDUIT UPVC SCH.80 NEMA TC2 6", GREY 6M/U 
PART #: EMAAD-BAC/8200	PART #: EMAAD-BAC/8160-6

CONDUIT UPVC SCH.80, 6" NEMA TC2, 3M/U, GREY 	CONDUIT UPVC SCH.80 NEMA TC2 5", GREY 6M/U 
PART #: EMAAD-BAC/8160	PART #: EMAAD-BAC/8150-6

CONDUIT UPVC SCH.80, 5" NEMA TC2, 3M/U, GREY 	CONDUIT UPVC SCH.80 NEMA TC2 4", GREY 6M/U 
PART #: EMAAD-BAC/8150	PART #: EMAAD-BAC/8140-6

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC SCH.80, 4" NEMA TC2, 3M/U, GREY 	CONDUIT UPVC SCH.80 NEMA TC2 3" 1/2", GREY 6M/U 
PART #: EMAAD-BAC/8140	PART #: EMAAD-BAC/8130-6

CONDUIT UPVC SCH.80, 3" NEMA TC2, 3M/U, GREY 	CONDUIT UPVC SCH.80, 2&1/2" NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/8130	PART #: EMAAD-BAC/8125

CONDUIT UPVC SCH.80, 2" NEMA TC2, 3M/U, GREY 	CONDUIT UPVC SCH.80 NEMA TC2 1&1/2", GREY 6M/U 
PART #: EMAAD-BAC/8120	PART #: EMAAD-BAC/8115-6

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC SCH.80, 1&1/2" NEMA TC2, 3M/U, GREY  PART #: EMAAD-BAC/8115	CONDUIT UPVC SCH.80 NEMA TC2 1&1/4", GREY 6M/U  PART #: EMAAD-BAC/8112-6
CONDUIT UPVC SCH.80, 1&1/4" NEMA TC2, 3M/U, GREY  PART #: EMAAD-BAC/8112	CONDUIT UPVC SCH.80 NEMA TC2 1", GREY 6M/U  PART #: EMAAD-BAC/8110-6
CONDUIT UPVC SCH.80, 1" NEMA TC2, GREY 3M/U  PART #: EMAAD-BAC/8110	CONDUIT UPVC SCH.80 NEMA TC2 3/4", GREY 6M/U  Part #: EMAAD-BAC/8107-6

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC SCH.80, 3/4" NEMA TC2, GREY 3M/U 	CONDUIT UPVC SCH.80 NEMA TC2 1/2", GREY 6M/U 
PART #: EMAAD-BAC/8107	Part #: EMAAD-BAC/8105-6

CONDUIT UPVC SCH.80, 1/2" NEMA TC2, GREY 3M/U 	CONDUIT PVC SCH.40, PVC NEMA TC2 8", 6100MM, GREY 
PART #: EMMAD-BAC/8105	Part #: EMAAD-BAC/200-6

CONDUIT UPVC SCH.40, 8" NEMA TC2, 3M/U, GREY 	CONDUIT PVC SCH.40, PVC 6" UL 651, 3050MM, GREY 
PART #: EMAAD-BAC/200	PART #: EMAAD-BAC/160-UL

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC NEMA TC8 ELB35 6", 6M/U 	CONDUIT UPVC NEMA TC6 EB20 6", 6M/U 
PART #: EMAAD-BAC/160-EB35	PART #: EMAAD-BAC/160-EB20
CONDUIT UPVC NEMA TC6 DB60 6", 6M/U 	CONDUIT UPVC NEMA TC8 DB120 6", 6M/U 
PART #: EMAAD-BAC/160-DB60	PART #: EMAAD-BAC/160-DB120
CONDUIT PVC SCH.40, PVC 6" UL 651, 6100mm, Grey 	CONDUIT UPVC NEMA TC2 6", 6M/U 
PART #: EMAAD-BAC/160-6-UL	PART #: EMAAD-BAC/160-6

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC NEMA TC2 6", 6M/U 	CONDUIT UPVC SCH.40, 6"NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/160-6	PART #: EMAAD-BAC/160
CONDUIT UPVC NEMA TC6 EB20 5", 6M/U 	CONDUIT PVC SCH.40, PVC 6" NEMA TC2, 3050MM, 
PART #: EMAAD-BAC/150-EB20	PART #: EMAAD-BAC/150
CONDUIT PVC SCH.40, PVC 4" UL 651 3050MM, GREY 	CONDUIT UPVC NEMA TC8 EB35 4", 6M/U 
PART #: EMAAD-BAC/140-UL	PART #: EMMAD-BAC/140-EB35

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC	CONDUIT UPVC
NEMA TC6 EB20 4", 6M/U 	NEMA TC2 4", 6M/U 
PART #: EMAAD-BAC/140-EB20	PART #: EMAAD-BAC/140-6

CONDUIT PVC	CONDUIT UPVC
SCH.40, PVC 3" UL 651 3050MM, GREY 	NEMA TC8 EB35 3", 6M/U 
PART #: EMAAD-BAC/130-UL	PART #: EMMAD-BAC/130-EB35

CONDUIT UPVC	CONDUIT UPVC
NEMA TC6 EB20 3", 6M/U 	NEMA TC6 DB60 3", 6M/U 
PART #: EMAAD-BAC/130-EB20	PART #: EMAAD-BAC/130-DB60

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC	CONDUIT PVC
NEMA TC8 DB120 3", 6M/U 	SCH.40, PVC NEMA TC2 3", 6100MM, GREY 
PART #: EMAAD-BAC/130-DB120	PART #: EMAAD-BAC/130-6

CONDUIT UPVC	CONDUIT UPVC
SCH.40, 3" NEMA TC2, 3M/U, GREY 	SCH.40, 2&1/2" NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/130	PART #: EMAAD-BAC/125

CONDUIT PVC	CONDUIT UPVC
SCH.40, PVC 2" UL 651 3050MM, GREY 	NEMA TC8 EB35 2", 6M/U 
PART #: EMAAD-BAC/120-UL	PART #: EMAAD-BAC/120-EB35

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC	CONDUIT UPVC
NEMA TC6 EB20 2", 6M/U 	NEMA TC6 DB60 2", 6M/U 
PART #: EMAAD-BAC/120-EB20	PART #: EMAAD-BAC/120-DB60

CONDUIT UPVC	CONDUIT PVC
NEMA TC8 DB120 2" (1.96MM), 6M/U 	SCH.40, PVC NEMA TC2 2", 6100MM, GREY 
PART #: EMAAD-BAC/120-DB120	PART #: EMAAD-BAC/120-6

CONDUIT UPVC	CONDUIT PVC
NEMA TC8 DB120 1&1/2", 6M/U 	SCH.40, PVC 1&1/4" UL 651, 3050MM, GREY 
PART #: EMAAD-BAC/115-DB120	PART #: EMAAD-BAC/112-UL

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT PVC SCH.40, PVC NEMA TC2 1&1/4", 6100MM, GREY 	CONDUIT UPVC SCH.40, 1&1/4" NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/112-6	PART #: EMAAD-BAC/112

CONDUIT UPVC NEMA TC8 DB120 1", 6M/U 	CONDUIT PVC SCH.40, PVC 1" UL 651, 6100MM, GREY 
PART #: EMAAD-BAC/110-DB120	PART #: EMAAD-BAC/110-6-UL

CONDUIT PVC SCH.40, PVC NEMA TC2 1", 6100MM, GREY 	CONDUIT PVC SCH.40, PVC 3/4" NEMA TC2, 3050MM, GREY 
PART #: EMAAD-BAC/110-6	PART #: EMAAD-BAC/107-UL

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC	CONDUIT UPVC
4 X 3.91MM NEMA TC8 TYPE DB120, GREY 6130 MM 	CLASS 3, 6M/U, 50X1.8MM SASO 14-15 1998 EQUIVALENT TO DIN 8061/8062 
PART #: EMAAD-BAC/140-DB120	PART #: EMAAD-BCTP/050

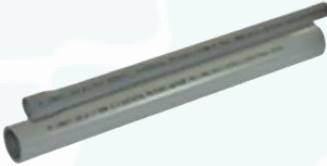
CONDUIT UPVC	CONDUIT UPVC
SCH.40, 4" NEMA TC2, 3M/U, GREY 	SCH.40, 2" NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/140	PART #: EMAAD-BAC/120

CONDUIT UPVC	CONDUIT UPVC
SCH.40, 1&1/2" NEMA TC2, 3M/U, GREY 	SCH.40, 1" NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/115	PART #: EMAAD-BAC/110

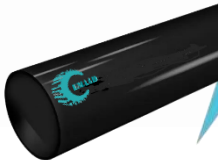
EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT UPVC	CONDUIT UPVC
SCH.40, 3/4" NEMA TC2, 3M/U, GREY 	SCH.40, 1/2" NEMA TC2, 3M/U, GREY 
PART #: EMAAD-BAC/107	PART #: EMAAD-BAC/105

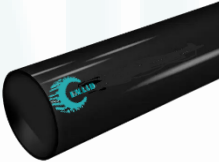
CONDUIT PVC	CONDUIT PVC
50MM HG (3.2MM) 2.9M/U 	32MM HG (2.5MM) 2.9M/U 
PART #: EMAAD-BSP-6	PART #: EMAAD-BSP-4

CONDUIT PVC PVC	CONDUIT PVC PVC
25MM HG (1.9MM) 2.9M/U 	20MM HG (1.8MM) 2.9M/U 
PART #: EMAAD-BSP-3	PART #: EMAAD-BSP-2

EAST MAAD GENERAL CONTRACTION TECHNICAL SPECIFICATION

History of



CONDUIT PVC PVC 50mm MG (2.5mm) 2.9M/U  PART #: EMAAD-BMP-	CONDUIT PVC PVC 38mm MG (2.2mm) 2.9M/U  PART #: EMAAD-BMP-5
CONDUIT PVC PVC 32MM MG (2.1MM) 2.9M/U  PART #: EMAAD-BMP-4	CONDUIT PVC PVC 25MM MG (1.8MM) 2.9M/U  PART #: EMAAD-BMP-3
CONDUIT PVC PVC 20MM MG (1.6MM) 2.9M/U  PART#: EMAAD-BMP-2	 IMRAN AHMAD SALES MANAGER 0565612138 ٠٥٦٥٦١٢١٣٨ sales@emaad-est.com ٠٥٦٥٦١٢١٣٨ 6549, Marwan Bin Muawiyah, 2569 ٠٥٦٥٦١٢١٣٨ Ar Rakah Al Janoubiyah District, Al Khobar ٠٥٦٥٦١٢١٣٨