

About Qatar

Qatar - beautiful and bountiful, has become one of the most exciting countries in the Middle East. The State of Qatar continues to surge forward as the place to be. With a predominantly young population, an expanding economy and the soon to be host of the 2022 Fifa World Cup, Qatar has captured the world's imagination.

A member of the six-nation Gulf Cooperation Council, Qatar has played host for events for the World Trade Organization and the Organization of the Islamic Conference, as well as a successful Asian Games in 2006. It is one of the most ambitious and far reaching centers for education and research in the Middle East.

Qatar's rapid growth is evident in the expansion of industrial complexes, the vast selection of shopping complexes, hotels, sports facilities and the boom in construction all across the state.

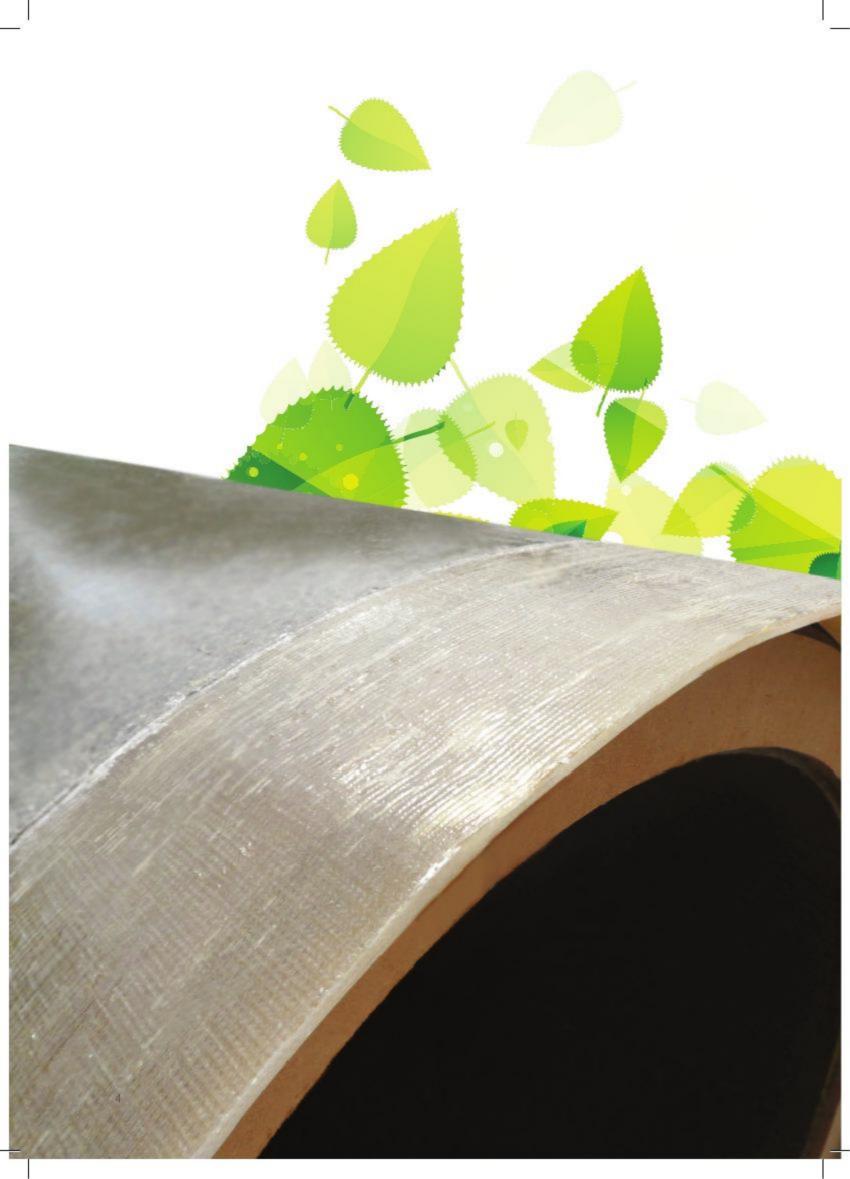
and the state

A peninsula of some 5,000 square miles, Qatar has a landscape of sand dunes in the south and flat, rocky desert with scattered cultivation in the north. The climate is mild and pleasant in winter with occasional rainfall, while the summers are hot and frequently humid.

Rich in history and culture, Qatar continues to blend old world traditions with modern living. For centuries, economic activity centered on camel breeding, fishing and pearl diving. In the twentieth century, the economy was transformed by the discovery of oil and, later on, of vast reserves of gas off the northeast coast.

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HOW THE IDEA INVOLVED?

The idea sprang up in our mind when we saw the product. The product is very special from many angles. It is eco friendly. The technology used in the manufacture of the product has a track record of 35 years during which it has proved its competence. No cement or water is used in its manufacture. Consequently, it saves Cement as well as water which is scarce in the region and large cost is needed for its extraction. On the other hand 90% the raw materials used in the manufacture of the product is local. The remaining 10% is produced in the GCC countries. Moreover, nobody has established such a project in Qatar before.

The product is eco friendly. No waste is left after its manufacture. No harmful chemicals are used. The great leap in the development in Qatar especially and in the GCC countries in general and the true directions of the State in supporting and expanding the base of small and medium scale industries are the factors that helped make up our mind to take the steps required to establish the project that can contribute to filling the need for the product by providing it locally rather than importing from foreign countries.

HOW THE COMPANY WAS FORMED?

Qatar German Pipes Co. (QGPC) was established by virtue of Ministerial decree no. 2121 licensing industrial project issued by the Ministry of Industry and Energy and a Commercial license no. 37683. It is owned 95% by Qatari part and 5% by German part. After establishment of QGPC the next step was to choose the company that has the technology. Meyer Rohr + Schacht (MRS) was chosen. MRS is the forerunner in manufacturing polymer concrete jacking pipes globally. An agreement was signed with MRS to use the technology and to supply the equipments and machinery required for the establishment of the factory. The project has acquired the support and financing of the Qatar Development Bank.

The production capacity of the factory is 50,000 tons per year. The actual production is expected to start in April 2011. The factory is hoped in short time to achieve the international quality accreditation which will help it to enter various markets. The product is used in the drainage projects especially where micro tunneling jacking pipes are used.





Pipe Green™ Jacking Pipes Quality and Safety Above All

Underground pipe jacking requires high quality pipes and successful safe installations: PIPE GREENTM jacking pipes are corrosion resistant and provide the very high axial compressive strength required for jacking. PIPE GREENTM jacking pipes are made of aggregate and polyester resin with properties and dimensions specified in German Standard DIN 54815.

MICROTUNNELLING,

The Technology For The Future.

Successful Pipe Installations depend on Quality Pipe

Microtunnelling technology has developed rapidly in recent years and reached a high standard worldwide because it is environmentally friendly and costeffective. Microtunnelling projects to be successful require high-quality, high strength jacking pipes which are easy to install.

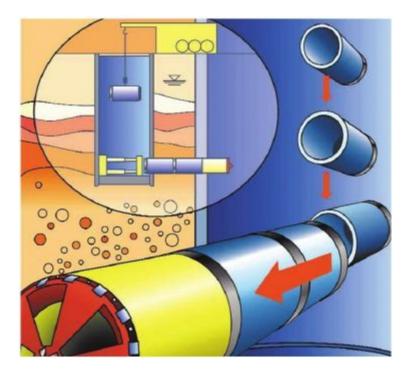
Polymer Concrete – the ideal Sewer Material

PIPE GREENTM jacking pipes by QGPC are made up of aggregate, filler and polyester resin. Cement and water are not used. Polyester as bonding agent provides excellent resistance to corrosion. The material properties and dimensions are specified in German Standard DIN 54815.

The material is commonly called polymer concrete (PRC). This composite material conforms with DIN 16946, part 2, type 1140. The homogeneous bond of resin and aggregate materials combine to provide very high axial compressive strengths and bending strengths with a thinner wall thickness and less weight than other jacking pipes.

Other Advantages of the Material include:

- Polyester is extraordinary resistance to most acid and caustic solutions
- The quartz aggregate resists chemical attack
- The material structure is capillary-free and does not allow water absorption or gas diffusion.



These features make PIPE GREENTM jacking pipes resistant to sewage, gases, corrosive solutions, and aggressive soil (pH range 1.0 to 10).

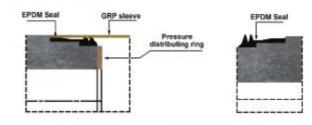
The PIPE GREENTM Jacking Pipe

Pipes are manufactured in 1, 2 or 3 meter lengths depending on pipe diameter and jacking equipment requirements. Connections to manholes are manufactured in shorter lengths in accordance with the requirements of the client.

Production in metal molds ensures accurate size and smoothness of the interior and exterior pipe surfaces. The inner pipe diameter is identical with the nominal diameter (DN). The outer pipe diameter is compatible with most standard microtunnelling and jacking equipment and can be adapted to meet specific structural requirements and machine sizes.



PIPE GREEN® Jacking Pipes DN 400 - DN 1143



internal a	liameter	external	diameter	wall t	hickness	le	ngth	permitte	ed compres	sive force	pipe v	weight
mm	in.	mm	in.	mm	in.	m	ft.	1	kN	sh n.	kg/m	lbs/ft.
400	15,7	550	21,7	75	3,0	1 and 2	3,3 and 6,6	150	1500	169	249	167
482	19,0	622	24,5	70	2,8	2.44	8	150	1500	169	269	181
500	19,7	660	26,0	80	3,1	2	6,6	190	1900	214	324	218
534	21,0	674	26,5	70	2,8	2,44	8	167	1670	188	300	202
600	23,6	760	29,9	80	3,1	2	6,6	224	2240	252	380	255
700	27,6	860	33.9	80	3,1	2	0,0	240	2400	270	435	292
762	30,0	942	37,1	90	3,5	2,44	8	350	3505	394	535	359
800	31,5	960	37,8	80	3,1	2	6,6	272	2720	306	490	329
900	35.4	1100	43.3	100	3.9	2	6,6	448	4480	504	700	470
932	36,7	1120	44.1	94	3,7	2,44	8	404	4045	455	680	457
1067 1	42,0	1295	51,0	114	4,5	2,44	8	648	6480	729	950	638
1067	42,0	1321	52,0	127	5,0	2,44	8	744	7440	837	1070	719
1143	45,0	1403	55.2	130	5,1	2,44	8	841	8410	946	1175	790

PIPE GREEN*Jacking Pipes DN 1000 - 1800

GRP sleeve	Wedge Seal Material: EPDM	Stopper ring Material:EPDM
	ressure buting ring	

internal	diameter	external	diameter	wall thi	ckness	len	gth	permit	ed compress	ive force	pipe	weight
mm	in,	mm	in.	mm	in.	m	ft,	t	kN	sh.tn.	kg/m	lbs/f
1000	39,4	1184	46,6	92	3,6	3	9,8	414	4140	400	700	470
1200	47,2	1482	58,4	141	5,6	3	9,8	570	5700	641	1327	891
1400	55,1	1720	67.7	160	6.3	3	9.8	740	7400	833	1750	1175
1600	63,0	1940	76,4	170	6,7	3	9,8	895	8950	1007	2100	1410
1800	70,9	2160	85,0	180	7,1	3	9,8	1072	10720	1206	2500	1678

PIPE GREEN[®] Jacking Pipes DN 2000 - DN 2600

Stopper ring Material: EPDM	Wedge Seal Material: EPDM GRP sleeve	Wedge Seal Material:EPDM
	Pressure	

Internal	diameter	external	diameter	wall th	rickness	le	ngth	permite	d compress	ive force	pipe v	weight
mm	in.	mm	in.	mm	in.	m	ft.	1	kN	sh. tn.	kg/m	lbs/it.
2000	78,7	2390	94,1	195	7,7	3	9,8	1330	13300	1496	3000	2013
2200	86,6	2630	103,5	215	8,5	3	9,8	1670	16700	1878	3700	2483
2400	94,5	2870	113,0	235	9,3	3	9,8	2060	20600	2317	4450	2987
2600	102,4	3100	122,0	250	9,8	3	9,8	2415	24150	2717	5200	3491

QUICK CONNECTIONS.

Manhole Connections

For diameters up to DN 800 and lengths of 1 to 2 meters pipe jacking from round shafts is usually preferred.

Rectangular shafts are predominantly used for larger pipe diameters or longer lengths of pipe. Installing manholes at the insertion and reception shafts is very costly, especially for large diameter pipe. It is more economical to install PIPE GREENTM prefabricated manholes featuring the same properties as the PIPE GREENTM jacking pipes.

PIPE GREENTM prefabricated manholes are installed in the insertion and reception shafts. The manholes have standard-size connection sleeves. The remaining space between the jacking pipes and a manhole is usually bridged by a closure pipe and a push-on tightening sleeve.

House Connections

House connections are made directly to the sewer. Bells and spigot ends of standardized pipe materials are typically used. The necessary tapping can be made using commercial core drilling equipment.

Pipe jacking of house connections (sewer laterals) makes economic sense if the house connections can be made from the same shaft used for the jacking of the sewer.

The complete System:

· Reinforced concrete insertion and reception shafts DN 2000 - DN 3200

· PIPE GREEN™ jacking pipes DN 400 - DN 900 for microtunnelling

 \cdot PIPE GREENTM jacking pipes DN 1000 - DN 2600 for microtunnelling

 \cdot PIPE GREENTM jacking pipes DN 800 - DN 1800 with kite shaped cross-section

· PIPE GREEN™ manholes DN 1000 - DN 2600

The complete system is available from a single source offering easy and quick coordination of supplies.





MICROTUNNELLING -THE TECHNOLOGY FOR THE FUTURE.

RELIABLE AND SAFE.

PIPE GREEN[™] jacking pipes meet the requirements of Standard A 125 of ATV (German Association for Water Pollution Control). This standard requires parallel pipe ends perpendicular to the pipe axis. This is guaranteed by milling each individual pipe. Parallel pipe ends perpendicalur to the pipe axis ensure an even distribution of jacking forces over the entire pipe wall. The exterior pipe surface is very smooth which lowers friction during pipe jacking. Pipe quality is monitored in accordance with the Quality Control and Testing Regulations of Deutsche Bahn AG (German Rail) by MPA NRW (Material Testing Institute of North Rhine-Westphalia, Germany).

Upon receipt of an order QGPC prepares the static calculations based on ATV-Standard A 161. The installation requirements should be indicated in as much detail as possible. Please ask for QGPC's form "LOAD DATA for PIPE GREENTM Jacking Pipes conforming to DIN 54815".

Jacking Pipe Joints

A sealing element and a guide sleeve make up the jacking pipe joint. For diameters up to DN 1143 the sealing element is fixed to the pipe and the guide sleeve is a floating element. For larger diameters the sealing element and the guide sleeve is fixed to the pipe. Only materials specified by ATV-Standard A 125 are used for seals and guide sleeves. The quality of the pressure distribution ring is essential for the even distribution of axial forces on the pipe.

Chipboard or knot-free soft wood rings are used to distribute the jacking forces on the end of the pipe. The pressure distribution rings are supplied with the pipe and can be installed on request. also be made to customer specifications. The microtunnelling/jacking equipment supplier will provide the hydraulic jacks.

Bentonite is usually injected through injection nipples in thepipe wall to reduce surface friction. The injection nipples are installed in the PIPE GREENTM jacking pipe at our plant.

The nipples can be our design, made to customer specification or be supplied by the customer to us for installation. In case curved drives are necessary we will make the required alterations to the pipes, sleeves, and pressure distributing rings in order to achieve a maximum of safety during jacking.

PIPE GREEN™ Jacking Pipes DN 800 – DN 1800 with kite-shaped Cross-Section

Jacking pipe with kite-shaped cross-section was developed in Hamburg to meet the specific hydraulic requirements of that City. Compared to pipe with a circular cross-section this new jacking pipe ensures a higher flow speed at low water levels, increasing the self-cleaning effect. When old Hamburg egg-shaped brick sewers are replaced by PIPE GREENTM jacking pipes with a kite-shaped cross-section a significant gain in valuable storage volume is achieved.

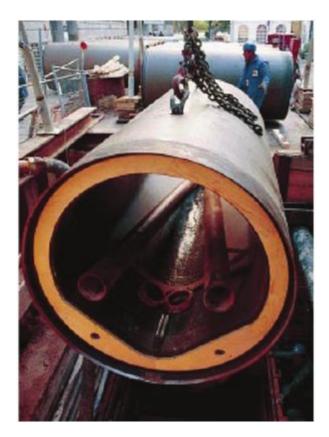
THE FULL RANGE.

PIPE GREEN[™] Jacking Pipes DN200 – DN900 for Microtunnelling

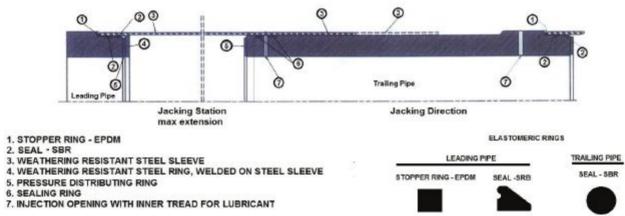
With PIPE GREENTM jacking pipes it is possible tomicrotunnel two manhole reaches at one time – with subsequent installation of a manhole midway between the two manholes. The superior capacity of PIPE GREENTM jacking pipes to carry high compressive loads allows this time and cost saving procedure. A steel sleeve provides the optimum in safety for a flawless pipe connection, even with unfavorable ground conditions.

PIPE GREEN™ Jacking Pipes DN 1000 – DN 2600

The high jacking load capacity of PIPE GREENTM jacking pipes makes very long drives possible. To achieve still longer drives intermediate jacking stations are used. For PIPE GREENTM jacking pipes we supply intermediate jacking stations, including the specially designed leading and trailing PIPE GREENTM interjack pipes, the steel guide collar, and the steel and wooden pressure distribution rings. Intermediate jacking stations can



Intermediate Jacking Station







TO THE POINT

PIPE GREENTM Jacking Pipes stand out for:

· High compressive strength = high jacking force and maximum safety

·Steel guide collar = maximum safety during jacking

· Smooth, even, non-absorbing outer pipe surface = reduced friction

·Parallel pipe ends = uniform distribution of jacking forces

 High dimensional accuracy = no ovality, tight joints, and perfectly matching pipes

·Elasticity = reduced point loading and risk of rupture

 \cdot Low weight = ease of installation

-Adaptable dimensions = suitable for all microtunnelling and jacking equipment

• Complete system = reinforced concrete insertion and reception shafts, PIPE GREENTM jacking pipes, and PIPE GREENTM system manholes all from the same supplier

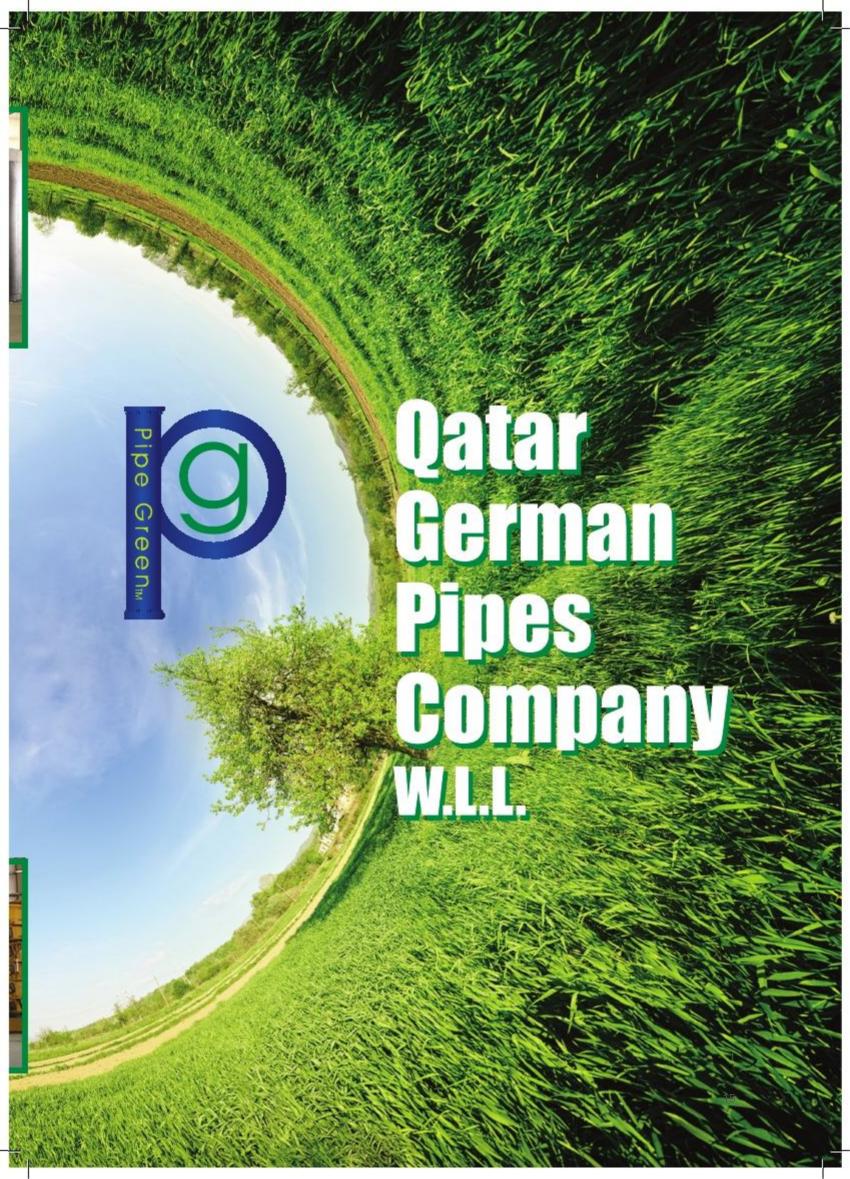
·Smooth, even inner surface = high flow rate

· High corrosion resistance = reliability throughout a long service life

-Tested fatigue strength under cyclic load = installations under German, Canadian and U.S. railroad tracks

YOUR PROJECT CAN BENEFIT FROM THESE ADVANTAGES. JUST CONTACT US. THE EARLIER, THE BETTER.





Standard	100 0004 0000
Certificate Registr. No.	ISO 9001:2008 01 100 127757
Certificate Holder:	Qatar German Pipes Company W.L.L., P.O. Box – 40064, New Industrial Area, Doha, Qatar
Scope:	Manufacturing of Polymer Resin Concrete Jacking Pipes
Validity:	Proof has been furnished by means of an audit that the requirements of ISO 9001:2008 are met. The certificate is valid from 2015-05-17 until 2018-05-16. First certification 2012
	2015-05-04 TÜV Rheinland Cert GmbH Am Grauen Stein · 51105 Köh
	DAKKS Distoche Abbreidischangsstatle D-20-16021-02-00



Bothar Boring & Tunnelling Operations W.L.L. Doha- Qatar Micro-Tunneling • Tunneling • HDD Auger Boring • Rehabilitation

Date	-	07 June 2015	Telephone Nr.	:	(+974) 4410 9109
			Facsimile Nr		(+974) 4410 9100
Reference	3	BQ/GEN/QCPC/029	Mobile Nr.	:	(+974) 5043 0546
Attention		Mr. Roger Rex Conlu	Email Contact	:	Admin@pipegreen.com
Company	1	Qatar German Pipes Co. (QGPC)	No. of Pages	:	1

Subject

POLYMER CONCRETE JACKING PIPES (PIPEGREEN™)

Dear Sir;

On behalf of Bothar Boring & Tunneling – Middle East, we highly recommend, without hesitation, the use of POLYMER CONCRETE JACKING PIPES (PIPEGREEN[™]) produced by Qatar German Pipes Company.

This product pipe has already been approved by ASHGHAL for use and currently we are using these pipes on our GCC project – Reference : Road & infrastructure for Commercial St in Al Khor Area Project Code IA/13-14/C 02 ST (GTC 20).

It may also be noted that this type of pipe has already been used in many projects of importance worldwide as well as on a number of projects here in Qatar and other GCC countries.

The materials used in the production of this Polymer Concrete Jacking Pipes is resin based. Polymer Concrete Jacking Pipes does not require any additional lining materials such as GRP and HDPE and can carry out the required jacking forces we apply for microtunnelling activities.

We will consider this product pipes for any of our future projects.

This letter issued as per the request of Qatar German Pipes Co. (QGPC) without any responsibility from Bothar Boring and Tunnelling.

Yours faithfully,

Bothar Boring & Tunnelling Operations W.L.L.

Ziad AlZagezoug

Deputy General Manager - Middle East Operations



Tel: +974 4487 8745; Fax: +974 4487 8746; P.O.Box 30968 uilding Number 396, Zone 40, Street 250, D-Ring, New Salata, Doha, State of Qatar Website: www.botharboring.com.au

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TEL: +974 440 9109 FAX NO. +974 4410 910 Email: info@pipegreen	.com	
For the Attention of Mr	Abdullah Salem S. Al Sulaiteen	- Chairman
PROJECT CODE BUDGET TITLE	: IA 13/14 C 39 M : DOHA AND RAYYAN SEWE	RAGE SCHEMES
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REFERENCE: 1. Letter ref. QGPC/SP	/EF/049/2014 dated 06 Nov. 2014, from C	GPC to PoPWA-PWA
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Cc: Jassim Salman A Al	Sayegh; Nasser Yousef A Fakhroo; I	nfrastructure Affairs; President Office
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