Tooreen Aghamore GWSS
Water Meter Upgrade and Network Improvement Works Phase 2

Client: **Tooreen Aghamore GWSS**

VOLUME C:
PRICING DOCUMENT
(SCHEDULE OF RATES)

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No.	Description	Unit	Amount	Total
1.0	**PRELIMINARIES**			
1.1	**HEALTH AND SAFETY**			
	Tenderer to include a sum to cover the cost of carrying out the contract in accordance with H & S Regulations **including appointment as Project Supervisor for Construction** and also the preparation of a **site specific H & S Plan**.	Sum		
1.2	**WASTE MANAGEMENT**			
	Tenderer to include a sum to cover the cost of preparing a waste management plan and the obtaining of permits for the disposal of excavated material in compliance with Waste Management Acts and Regulations. e**xcavated material will be required to be disposed of. Please note this will be implemented**	Sum		
1.3	**ROAD OPENING LICENSE**			
	Tenderer to allow for cost of application for road opening licenses from Mayo County Council. Administration fee of €250 payable to Mayo County Council. Other road opening licence fees to be paid to Mayo County Council and will be refunded at completion stage. No deposit required.	Sum		
1.4	**TEMPORARY TRAFFIC MEASURES AND SIGNS FOR ROADWORKS**			
	Tenderer to include a sum to cover the cost of complying with all aspects of the Department of Transport, Traffic Signs Manual 2010 - **Chapter 8 Temporary Traffic Measures and Signs for Roadworks.** Tenderer is responsible for **planning and designing a Temporary Traffic Management Plan** in accordance with Chapter 8 for these works and also responsible for **supplying, installing and maintaining all equipment, at all times, associated with the Temporary Traffic Management Plan**.	Sum		
1.5	**SITE INVESTIGATION**			
	Slit trench at connection locations to existing watermains. Depth 1.5m, length up to 1500mm	Nr	6	
	Slit trench within 5m diameter of the marked location to establish the location of existing connections. Location of existing services to be marked in advance by group scheme personnel. Depth 1.5m, width 500mm	Nr	36	
	Photographic survey in advance of works of private lands in which new watermains are to be constructed.	Item		
1.6	**INSURANCES**			
1.6a	Insurance of the Works (see required level of cover and maximum excesses in schedule) incorporating Public liability, Employers Liability and All risks	Sum		
	Page Total to Summary			

	Page Total to Summary			
No.	**Description**	**Unit**	**Amount**	**Total**
1.7	**Sampling and Testing**			
1.7a	Provision of sample welds at time of Audit from each butt fusion and electrofusion welding machines to be used in the works, with weld tested by an independent specialist for conformance with WIS 4-32-08	Sum		
1.7b	Provision of welders who hold a City & Guilds Certificate of Unit Credit towards the Certificate for Utility Operators- Water Distribution- 1 Module "Mainlaying – Polyethylene Pipes Butt Fusion Joints (Single Pressure)''	Sum		
1.7c	Cutting out of random welded joints as required by the Engineer & independent testing of welds for conformity with WIS 4-32-08. Carrying out independent site Audit for conformity of welding in accordance with WIS 4-32-08.	Sum		
1.8	**Accommodation**			
	Provision of offices and other site facilities on a suitable compound over the duration of the contract and removal of same on completion.	Sum		
1.9	**Records**			
1.9a	Colour photographs to be taken on a daily basis and retained in digital format	Sum		
1.9b	Pre condition photographic survey of pipeline route.	Sum		
1.9c	As constructed drawings in Autocad format with GPS location of joints, fittings, turns, service connections etc.	Sum		
	Wayleaves - Fencing			
1.10	Establish and subsequent removal of single line temporary fence to edge of wayleaves	sum		
1.11	Establish and subsequent removal of double line temporary fence to edge of wayleaves	sum		
	Wayleaves - reinstatement			
1.12	Provide for returning to site for final reinstatement of all works areas	Sum		
	Page Total to Summary			

2.0	**WATERMAINS AT CARROWNEDEN (A1 – A2)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
2.1a	63mm PE100 SDR17 Watermains in fields	m	654	
2.1b	63mm PE100 SDR17 Watermains in roads/road crossings	m	6	
2.1c	Temporary road restoration in accordance with the specification	m	6	
2.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
2.2a	Provide & install 63**mm sluice valve**	nr	2	
2.2b	Provide & install **scour valves** on 63mm watermains	nr	2	
2.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	2	
2.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
2.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
2.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
2.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	660	
2.6	**Marker posts** in accordance with the drawings and specification	Nr	6	
2.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
2.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	660	
2.7.2	Scour Outlet pipeline crossing the road	nr	2	
2.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARROWNEDEN (A1 – A2)			
	SERVICE CONNECTIONS			
2.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection	Nr	6	
2.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	270	
	Crossings			
2.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.		
2.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	4	
2.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	2	
2.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.		
2.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.		
2.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr		
2.10g	100mm Blockwork wall, 1200mm high, capped and plastered	Nr		
2.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
2.12	Extra over for crossing of overhead ESB lines	Sum		
2.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
2.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARROWNEDEN (A1 – A2)			
2.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
2.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	6	
2.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	6	
2.14c	**Lean mix concrete** for road crossings etc	m	6	
2.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m	0	
2.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	6	
2.14f	**ROAD SAW CUT** on completion of pipework	m	6	
2.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	300	
	TRENCHLESS TECHNOLOGY			
2.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. . (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	6	
	Page Total to Summary			

3.0	**WATERMAINS AT CARROWNEDEN (B1 – B2)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
3.1a	63mm PE100 SDR17 Watermains in fields	m	404	
3.1b	63mm PE100 SDR17 Watermains in roads/road crossings	m	6	
3.1c	Temporary road restoration in accordance with the specification	m	6	
3.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
3.2a	Provide & install 63**mm sluice valve**	nr	2	
3.2b	Provide & install **scour valves** on 63mm watermains	nr	1	
3.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	0	
3.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
3.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
3.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
3.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	410	
3.6	**Marker posts** in accordance with the drawings and specification	Nr	3	
3.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
3.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	410	
3.7.2	Scour Outlet pipeline crossing the road	nr	1	
3.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARROWNEDEN (B1 – B2)			
	Service Connections			
3.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection	Nr	1	
3.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	2	
	Crossings			
3.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.	2	
3.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	3	
3.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.		
3.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.		
3.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.		
3.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr		
3.10g	100mm Blockwork wall, up to 1200mm high, capped and plastered	Nr		
3.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
3.12	Extra over for crossing of overhead ESB lines	Sum		
3.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
3.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARROWNEDEN (B1 – B2)			
3.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
3.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	6	
3.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	6	
3.14c	**Lean mix concrete** for road crossings etc	m	6	
3.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m	0	
3.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	6	
3.14f	**ROAD SAW CUT** on completion of pipework	m	6	
3.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	10	
	TRENCHLESS TECHNOLOGY			
3.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. . (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	6	
	Page Total to Summary			

4.0	**WATERMAINS AT CARTRON NORTH (C1 – C5)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
4.1a	110mm PE100 SDR17 Watermains in fields	m	1490	
4.1b	63mm PE100 SDR17 Watermains in roads/road crossings	m	10	
4.1c	Temporary road restoration in accordance with the specification	m	10	
4.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
4.2a	Provide & install 63**mm sluice valve**	nr	4	
4.2b	Provide & install **scour valves** on 63mm watermains	nr	4	
4.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	5	
4.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
4.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
4.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
4.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	1500	
4.6	**Marker posts** in accordance with the drawings and specification	Nr	15	
4.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
4.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	1500	
4.7.2	Scour Outlet pipeline crossing the road	nr	2	
4.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARTRON NORTH (C1 – C5)			
4.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection	Nr	3	
4.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	6	
	Crossings	Sum		
4.10a	Timber post and barbed/electric wire fence, up to 1.5m high			
4.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	2	
4.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	4	
4.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.	5	
4.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.	2	
4.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr.		
4.10g	100mm Blockwork wall, up to 1200mm high, capped and plastered	nr		
4.11	Extra over for pipelines adjacent to overhead ESB lines	Nr	2	
4.12	Extra over for crossing of overhead ESB lines	Sum		
4.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
4.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARTRON NORTH (C1 – C5)			
4.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
4.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	10	
4.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	10	
4.14c	**Lean mix concrete** for road crossings etc	m	10	
4.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m	0	
4.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	10	
4.14f	**ROAD SAW CUT** on completion of pipework	m	10	
4.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	40	
	TRENCHLESS TECHNOLOGY			
4.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. . (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	10	
	Page Total to Summary			

5.0	**WATERMAINS AT LARALEA (C2 – H1)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
5.1a	63mm PE100 SDR17 Watermains in fields	m	800	
5.1b	63mm PE100 SDR17 Watermains in roads/road crossings	m	20	
5.1c	Temporary road restoration in accordance with the specification	m	20	
5.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
5.2a	Provide & install 63**mm sluice valve**	nr	2	
5.2b	Provide & install **scour valves** on 63mm watermains	nr	4	
5.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	4	
5.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
5.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
5.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
5.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	840	
5.6	**Marker posts** in accordance with the drawings and specification	Nr	10	
5.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
5.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	840	
5.7.2	Scour Outlet pipeline crossing the road	nr	1	
5.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT LARALEA (C2 – H1)			
	SERVICE CONNECTIONS			
5.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection	Nr	5	
5.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	120	
	Crossings			
5.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.	1	
5.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	6	
5.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	2	
5.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.	2	
5.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.	2	
5.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr	2	
5.10g	100mm Blockwork wall, up to 1200mm high, capped and plastered	Nr		
5.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
5.12	Extra over for crossing of overhead ESB lines	Sum		
5.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
5.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT LARALEA (C2 – H1)			
5.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
5.14a	Permanent Road Restoration in accordance with the General specification and drawings	m		
5.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m		
5.14c	**Lean mix concrete** for road crossings etc	m		
5.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m		
5.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m		
5.14f	**ROAD SAW CUT** on completion of pipework	m		
5.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m		
	TRENCHLESS TECHNOLOGY			
5.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. . (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m		
	Page Total to Summary			

6.0	**WATERMAINS AT CARNBEG (D1 – D4)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
6.1a	90mm PE100 SDR17 Watermains in fields	m	1390	
6.1b	90mm PE100 SDR17 Watermains in roads/road crossings	m	20	
6.1c	Temporary road restoration in accordance with the specification	m	20	
6.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
6.2a	Provide & install 63**mm sluice valve**	nr	3	
6.2b	Provide & install **scour valves** on 90mm watermains	nr	4	
6.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	5	
6.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
6.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
6.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation and disposal of rock off site	cum	350	
6.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	1400	
6.6	**Marker posts** in accordance with the drawings and specification	Nr	14	
6.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
6.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	1400	
6.7.2	Scour Outlet pipeline crossing the road	nr	2	
6.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARNBEG (D1 – D4)			
	SERVICE CONNECTIONS			
6.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection	Nr	5	
6.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	70	
	Crossings			
6.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.	1	
6.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	4	
6.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	2	
6.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.	2	
6.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.	2	
6.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr	2	
6.10g	100mm Blockwork wall, up to 1200mm high, capped and plastered	Nr	2	
6.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
6.12	Extra over for crossing of overhead ESB lines	Sum		
6.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
6.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARNBEG (D1 – D4)			
6.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
6.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	20	
6.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	10	
6.14c	**Lean mix concrete** for road crossings etc	m	10	
6.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m	10	
6.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	10	
6.14f	**ROAD SAW CUT** on completion of pipework	m	10	
6.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	200	
	TRENCHLESS TECHNOLOGY			
6.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	20	
	Page Total to Summary			

7.0	**WATERMAINS AT CARNBEG (D3 – E1)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
7.1a	63mm PE100 SDR17 Watermains in fields	m	570	
7.1b	63mm PE100 SDR17 Watermains in roads/road crossings	m	10	
7.1c	Temporary road restoration in accordance with the specification	m	10	
7.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
7.2a	Provide & install 63**mm sluice valve**	nr	2	
7.2b	Provide & install **scour valves** on 63mm watermains	nr	3	
7.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	3	
7.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
7.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
7.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
7.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	580	
7.6	**Marker posts** in accordance with the drawings and specification	Nr	11	
7.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
7.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	580	
7.7.2	Scour Outlet pipeline crossing the road	nr	2	
7.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARNBEG (D3 – E1)			
	SERVICE CONNECTIONS			
7.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection	Nr	5	
7.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	200	
	Crossings			
7.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.	2	
7.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	4	
7.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	2	
7.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.		
7.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.	2	
7.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr		
7.10g	100mm Blockwork wall, up to 1200mm high, capped and plastered	Nr	1	
7.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
7.12	Extra over for crossing of overhead ESB lines	Sum		
7.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
7.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CARNBEG (D3 – E1)			
7.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
7.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	10	
7.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	10	
7.14c	**Lean mix concrete** for road crossings etc	m	10	
7.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m		
7.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	10	
7.14f	**ROAD SAW CUT** on completion of pipework	m	10	
7.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	100	
	TRENCHLESS TECHNOLOGY			
7.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	10	
	Page Total to Summary			

8.0	**WATERMAINS AT CROSSARD (F1 – F4)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
8.1a	90mm PE100 SDR17 Watermains in fields	m	850	
8.1b	90mm PE100 SDR17 Watermains in roads/road crossings	m	70	
8.1c	Temporary road restoration in accordance with the specification	m	70	
8.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
8.2a	Provide & install 63**mm sluice valve**	nr	4	
8.2b	Provide & install **scour valves** on 63mm watermains	nr	4	
8.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	3	
8.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
8.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
8.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
8.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	920	
8.6	**Marker posts** in accordance with the drawings and specification	Nr	11	
8.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
8.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	420	
8.7.2	Scour Outlet pipeline crossing the road	nr	2	
8.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CROSSARD (F1 – F4)			
	SERVICE CONNECTIONS			
8.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection (7 ROAD CROSSINGS)	Nr	12	
8.9a	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	150	
	Crossings			
8.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.	5	
8.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	4	
8.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	2	
8.10d	Concrete post and rail fence (3 concrete rails), up to 1.5m high. New fence to be reconstructed to match existing.	nr.	1	
8.10e	Concrete post and chainlink fence, up to 1.5m. New fence to be reconstructed to match existing.	nr.	2	
8.10f	Timber post and rail fence (3 rails, treated timber), New fence to be reconstructed to match existing.	nr	2	
8.10g	100mm Blockwork wall, up to 1200mm high, capped and plastered	Nr	2	
8.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
8.12	Extra over for crossing of overhead ESB lines	Sum		
8.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
8.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CROSSARD (F1 – F4)			
8.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
8.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	10	
8.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	10	
8.14c	**Lean mix concrete** for road crossings etc	m	10	
8.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m	10	
8.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	10	
8.14f	**ROAD SAW CUT** on completion of pipework	m	10	
8.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	50	
	TRENCHLESS TECHNOLOGY			
8.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	20	
	Page Total to Summary			

9.0	**WATERMAINS AT CLOONGOWNAGH (G1 – G4)**			
	Items listed below should include:- **provision of watermains**; **excavate trenches**, **lay and joint pipes** in pea shingle bed; haunch and pipe surround, **backfill**;; **reinstatement** in fields, road margins, fences and ditches and temporary reinstatement in roads. Permanent Road Restoration itemised separately below..			
9.1a	63mm PE100 SDR17 Watermains in fields	m	590	
9.1b	63mm PE100 SDR17 Watermains in roads/road crossings	m	10	
9.1c	Temporary road restoration in accordance with the specification	m	10	
9.2	**VALVES AND FITTINGS**			
	Provide and install all necessary valves and fittings as per design drawings, to include chamber, cast iron (C.I.) cover/frame complete with markers on marker posts.			
9.2a	Provide & install 63**mm sluice valve**	nr	2	
9.2b	Provide & install **scour valves** on 63mm watermains	nr	2	
9.2c	Provide & install **Single Air Valves** on 63mm watermains	nr	2	
9.2d	Provide & install **Fire Hydrants** on 90mm watermains	nr	0	
9.3	**THRUST BLOCKS:** Provide concrete anchor blocks as detailed at bends, tee junctions, sluice valve chambers, sudden changes of direction and ends	item		
9.4	**ROCK EXCAVATION** Extra over Item no. 2.1 for Rock Excavation	cum	0	
9.5	**WARNING TAPE** with metal strip, inserted 600mm below surface.	m	600	
9.6	**Marker posts** in accordance with the drawings and specification	Nr	6	
9.7	**RESTORATION OF TRENCH WHERE PIPE LAID IN FIELDS**			
9.7.1	Backfill with excavated material over shingle. Allow for reseeding to take place at an appropriate time after completion.	m	600	
9.7.2	Scour Outlet pipeline crossing the road	nr	1	
9.8	**EXCAVATION IN FAULTY GROUND** Extra over for excavation and laying watermains in faulty ground	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CLOONGOWNAGH (G1 – G4)			
	SERVICE CONNECTIONS			
9.9	Provide and install saddle, ferrule H.G/ 25mm PE service pipe connection (2 ROAD CROSSINGS)	Nr	6	
	Extra over for from new watermain to service meter/ service pipe as applicable. Include for excavation, disposal of excavated material, bedding, haunches, surround, backfilling and compaction, location of existing main, access to chambers, fittings, sealing of disused pipes, water flow control and traffic management.	m	40	
	Crossings			
9.10a	Timber post and barbed/electric wire fence, up to 1.5m high	nr.	1	
9.10b	Sod ditch, up to 1.5m high. To be restored to match existing. Plant new hawthorn and/or blackthorn hedging to replace existing where applicable.	nr.	3	
9.10c	Dry stone wall, up to 1.5m high. Wall to be reconstructed to match existing with new hawthorn and/or blackthorn hedging over to replace existing.	nr.	1	
9.11	Extra over for pipelines adjacent to overhead ESB lines	Sum		
9.12	Extra over for crossing of overhead ESB lines	Sum		
9.13a	Pressure testing of newly installed watermains, including new service pipes up to the connection to the existing service pipe or meter, in accordance with the specification.	Sum		
9.13b	Flush out and sterilise all newly installed watermains, including new service pipes, in accordance with the specification	Sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	WATERMAINS AT CLOONGOWNAGH (G1 – G4)			
9.14	**ROAD RESTORATION** **Permanent Road restoration to Local Authority spec.**			
	Items listed below should include:- **provision of watermains**; tee-piece, **excavate trenches**, **lay and joint pipes** on bed of pea shingle, pea shingle bed under and over the pipe, **backfill with Cl.804/ cement bound mix, suitably compacted**; Temporary Road Restoration. Crossing to be 8 meters long			
9.14a	Permanent Road Restoration in accordance with the General specification and drawings	m	10	
9.14b	**Cold Tarmacadam** (Temp. Road reinstatement) for road crossings etc.	m	10	
9.14c	**Lean mix concrete** for road crossings etc	m	10	
9.14d	**Restoration of private entrances along county & private roads** Reinstate all agricultural and private entrances along local and private roads to original condition.	m		
9.14e	**ROAD SAW CUT** PRIOR TO LAYING OF PIPEWORK	m	10	
9.14f	**ROAD SAW CUT** on completion of pipework	m	10	
9.14g	EXTRA OVER ITEM 2.1 for excavating and laying watermains **adjacent** to existing services (Watermains, Sewers, Gas, E.S.B., or telephone cables)	m	400	
	TRENCHLESS TECHNOLOGY			
9.15	Tenderer to include sum for coring under all roadways to accommodate all domestic and agricultural connections crossing the roads. . (This item may be priced as an alternative to Items in 2.13 above) **NOTE: Road opening fees are payable to Local Authority if launch pit excavation encroaches onto the roadway.**	m	10	
	Page Total to Summary			

No.	Description	Unit	Amount	Total
10.0	**OTHER ITEMS**			
	Bulk Water Meters			
10.1	Electromagnetic flowmeter to BS EN ISO 4064 including dedicated earthing/grounding rings (316L SS) or earth electrodes, and a dismantling joint or wide-tolerance (e.g., Viking Johnson / UltraGrip) to facilitate maintenance on new 90mm PE100 pipe.	nr	1	
10.2	Replacement of existing bulk meter on the existing main (and existing chamber) with battery powered electromagnetic flowmeter to BS EN ISO 4064 including dedicated earthing/grounding rings (316L SS) or earth electrodes, and a dismantling joint or wide-tolerance (e.g., Viking Johnson / UltraGrip) to accommodate existing pipe material and facilitate maintenance on 90mm PE100 pipe.	Nr	3	
10.3	Replacement of existing bulk meter on the existing main (and existing chamber) with battery powered electromagnetic flowmeter to BS EN ISO 4064 including dedicated earthing/grounding rings (316L SS) or earth electrodes, and a dismantling joint or wide-tolerance (e.g., Viking Johnson / UltraGrip) to accommodate existing pipe material and facilitate maintenance on 63mm PE100 pipe.	Nr	2	
10.4	Ultra-low-power, battery- or solar-operated data logger/RTU equipped with a cellular modem	Nr	6	
10.5	Concrete plinth and kiosk to existing bulk water meter chamber (see Dwg WD12)	Nr	5	
10.6	Ditto to new water meter chamber	Nr	1	
	50mm nominal diameter ducting from bulk water meter chamber to kiosk (2 ducts. Total length (in fields)	m	30	
	Bulk Water Meter Chamber			
10.7	Construct 1.5m*1m **meter chamber** in 225m concrete block c/w 150mm R.C. base (1.8m * 1.3m) c/w heavy duty hinged cover to house meters and associated SVs, step irons to be included for access. Pipeline to be reduced for 500mm upstream and 250mm downstream of meter (Ref Dwg. WD12).	nr	1	
10.8	Extra over for all valves, pipework and fittings as detailed on Drawing WD12 including sluice valves to approach and exit of new water meter chamber on new 90mm PE100 pipe including all fitting and chambers	sum		
	Page Total to Summary			

No.	Description	Unit	Amount	Total
	OTHER ITEMS			
	Consumer Meter Units			
10.9	Locate and setup at each consumer meter location	Nr	600	
10.10	Supply and install Elster V200, class D, or similar approved meters in existing boundary boxes. Include for non return valves, commissioning and certification.	nr	600	
10.11	Removal and safe disposal of existing consumer meters	nr	600	
10.12	Reinstatement in grassed areas	Nr	425	
10.13	Reinstatement in bound bituminous surface	Nr	40	
10.14	Reinstatement in concrete surface	Nr	135	
	Page Total to Summary			

No.	Description	Amount
	GRAND SUMMARY	
1.0	**Preliminaries (Page 1)**	€
	Preliminaries (Page 2)	€
2.0	**WATERMAINS AT CARROWNEDEN (A1 – A2) (Page 1)**	€
	WATERMAINS AT CARROWNEDEN (A1 – A2) (Page 2)	€
	WATERMAINS AT CARROWNEDEN (A1 – A2) (Page 3)	€
3.0	**WATERMAINS AT CARROWNEDEN (B1 – B2) (Page 1)**	€
	WATERMAINS AT CARROWNEDEN (B1 – B2) (Page 2)	€
	WATERMAINS AT CARROWNEDEN (B1 – B2) (Page 3)	€
4.0	**WATERMAINS AT CARTRON NORTH (C1 – C5) (Page 1)**	€
	WATERMAINS AT CARTRON NORTH (C1 – C5) (Page 2)	€
	WATERMAINS AT CARTRON NORTH (C1 – C5) (Page 3)	€
5.0	**WATERMAINS AT LARALEA (C2 – H1) (Page 1)**	€
	WATERMAINS AT LARALEA (C2 – H1) (Page 2)	€
	WATERMAINS AT LARALEA (C2 – H1) (Page 3)	€
6.0	**WATERMAINS AT CARNBEG (D1 – D4) (Page 1)**	€
	WATERMAINS AT CARNBEG (D1 – D4) (Page 2)	€
	WATERMAINS AT CARNBEG (D1 – D4) (Page 3)	€
7.0	**WATERMAINS AT CARNBEG (D3 – E1) (Page 1)**	€
	WATERMAINS AT CARNBEG (D3 – E1) (Page 2)	€
	WATERMAINS AT CARNBEG (D3 – E1) (Page 3)	€
8.0	**WATERMAINS AT CROSSARD (F1 – F4) (Page 1)**	€
	WATERMAINS AT CROSSARD (F1 – F4) (Page 2)	€
	WATERMAINS AT CROSSARD (F1 – F4) (Page 3)	€

No.	Description	Amount
	GRAND SUMMARY	
9.0	**WATERMAINS AT CLOONGOWNAGH (G1 – G4) (Page 1)**	€
	WATERMAINS AT CLOONGOWNAGH (G1 – G4) (Page 2)	€
	WATERMAINS AT CLOONGOWNAGH (G1 – G4) (Page 3)	€
10.0	**OTHER ITEMS (Page 1)**	€
	OTHER ITEMS (Page 2)	€
	Adjustment item (if applicable)	€
	Subtotal	**€**
	ADD VAT @ 13.5%	€
	ADD VAT @ 23% (where applicable)	€
	TOTAL TO TENDER	**€**

	SCHEDULE OF RATES	
	Rates to be exclusive of VAT	
	General Operative (day rate)	€
	Pipelayer (day rate)	€
	Plumber (day rate)	€
	Carpenter – first fix (day rate)	€
	Machine driver (day rate)	€