

***Tender No : TBC***

NABABEEP: CONSTRUCTION OF GRAVITATIONAL SEWER OUTFALL LINE TO EXISTING WWTW

Schedule of Quantities

**SECTION A: PRELIMINARY AND GENERAL**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
		<b><u>SECTION A: PRELIMINARY AND GENERAL</u></b>					
	A 8.3	<b><u>FIXED-CHARGE ITEMS</u></b>					
A.1	A 8.3.1	Contractual Requirements	Sum	1			
	A 8.3.2	Establishment of Facilities on the Site :					
		a) <u>Facilities for Engineer (As described under SANS 1200 AB)</u>					
A.2	A 8.3.2.1(a)	i) Provision to be made for waterproof offices as described under item SANS 1200 AB 3.2: Office Building(s)	Sum	1			
A.3	A 8.3.2.1(c)	ii) Name boards (2 No and described under SANS 1200 AB 5.1). As per attached drawing	Sum	1			
	A 8.3.2.2	b) <u>Facilities for the Contractor</u>					
A.4	(a)	Offices and storage sheds	Sum	1			
A.5	(b)	Workshops	Sum	1			
A.6	(d)	Living accommodation	Sum	1			
A.7	(e)	Ablution and latrine facilities	Sum	1			
A.8	(f)	Tools and equipment	Sum	1			
A.9	(g)	Water supplies, electric power and communications	Sum	1			
A.10	(h)	Dealing with water	Sum	1			
	A 8.3.3	<u>Other fixed-charge obligations</u>					
A.11	PS A 8.3.3 (a)	Provision to comply to the Environmental Management Plan (SANS 1200 PS A 5.9)	Sum	1			
		<b>NOTE:</b> Bidders are advised to study the Health & Safety Specifications according to The Occupational Health & Safety Act (Act 85 of 1993) and the Construction Regulation 2014 (SANS 1200 A 5.7) before pricing this bill.					
Total Carried Forward							

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Brought Forward							
A.12	PS A 8.3.3 (b)	<p>Bidders must note that it is compulsory to price all items as specified regarding Health and Safety in this bill, the Occupational Health and Safety Act (Act 85 of 1993) and the 2014 Construction Regulations.</p> <p><b>FAILURE TO DO SO WILL INVALIDATE THE TENDER</b></p> <p>The following items serve as a breakdown of the expected cost items for the requirements of the Act and have to be duly completed and returned with the tender form (refer to the Occupational Health and Safety Specification for detail of clauses as listed).</p> <p>a) Preparation of Health and Safety Plan</p> <p>The sum shall cover all costs involved in the preparing of the Health and Safety Plan (which includes the risk assessment), which shall include the preparation of all permit applications and notifications as required by this specification and shall include the employment cost of all health and safety personnel employed for the preparation of the Contractor's Health and Safety Plan</p>	Sum	1			
A.13	PS A 8.3.3 (b)	<p>b) Health and Safety Training</p> <p>The sum shall cover all costs involved in preparation of all necessary Health and Safety Induction Training materials required from the training of the Contractor's employees, Sub-Contractors and all visitors to the Works.</p>	Sum	1			
A.14	PS A 8.3.3 (b)	<p>c) Personal Protective Clothing and Equipment</p> <p>The sum shall cover all costs involved in the initial provision of all personal protective clothing and equipment for the Contractor's employees and Sub-contractors and any visitors to the Works, as required by this specification (which includes the requirements of the Occupational Health and Safety Act, 1993 and its regulations, as amended).</p>	Sum	1			
Total Carried Forward							

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Brought Forward							
A.15	PS A 8.3.3 (b)	d) Fences, Signs and Baricades  The sum shall cover all costs involved in the initial provision of all fences, signs and barricades necessary for the protection of all persons, plant, vehicles, equipment or facilities, as required by this specification (which includes the requirements of the Occupational Health and Safety Act, 1993 and it's regulations, as amended).	Sum	1			
A.16	PS A 8.3.3 (b)	e) Establishment of Safety Administration  The sum shall cover all costs involved in establishment of all administrative matters required by this specification which shall include, but not limited to, the establishment of the Health and Safety File.	Sum	1			
A.17	PS A 8.3.3 (b)	f) Other Health and Safety Fixed-charge Obligations  The sum shall cover the fixed costs of all other obligations that are required for the safe execution of the Works in accordance with the requirements of this specification and that are not specifically covered in A.11 to A.15	Sum	1			
A.18	PS A 8.3.3 (c)	Supervision & Co-operation with Other Contractors (SANS 1200 PS A 5.10)					
A.19		i) With Electrical & Mechanical Contractor	Sum	1			
A.19		ii) With Other Contractors	Sum	1			Rate Only
	A 8.4	<u>TIME-RELATED ITEMS</u>					
A.20	A 8.4.1	Contractual Requirements	Sum	1			
A.21	A 8.4.2.1(a)	Operate and maintain facilities for the Engineer on the Site	Sum	1			
	A 8.4.2.2	<u>Facilities for Contractor for duration of construction, except where otherwise stated</u>					
A.22	(a)	Offices and storage sheds	Sum	1			
A.23	(d)	Living accommodation	Sum	1			
Total Carried Forward							

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
A.24	(g)	Water supplies, electric power and communications.	Sum	1			
A.25	(e)	Ablution and latrine facilities	Sum	1			
A.26	(f)	Tools and equipment	Sum	1			
A.27	PS A 8.4.5(b)	a) Implementation and Maintenance of Health and Safety Plan (PS A 5.7)  The sum shall cover all costs involved in the implementation and maintenance of the Health and Safety Plan. This shall include but shall not be limited to the following:  1) The employment cost of all health and safety personnel including consultants, health and safety officers, inspectors, supervisors and issuers required in terms of the Contractor's Health and Safety Plan.  2) Updating the Health and Safety Plan as needed.  3) Carrying out of periodic audits and follow-up audits.  4) Compiling ongoing risk assessments and risk assessment reports as required by the Works.  5) Convening of regular safety meetings with the Safety Representatives.  6) Accompanying and supporting the Employer of his Safety Agent during ad hoc audits.  7) Compilation of monthly safety reports and statistics for the Employer or his Safety Agent.	Sum	1			
A.28	PS A 8.4.5(b)	b) Implementation and maintenance of Training  The sum shall cover all costs involved in the implementation of the induction training of the Contractor's employees, Sub-contractors and all visitors to the Works.	Sum	1			
Total Carried Forward							

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
A.29	PS A 8.4.5(b)	c) Maintenance of Personnel Protective Clothing and Equipment  The sum shall cover all costs involved in maintenance, repair or replacement of personal protective clotng required by the Contractor's employees or Sub-contractors and all visitors to the Works.	Sum	1			
A.30	PS A 8.4.5(b)	d) Maintenance of Fences, Signs and Barricades  The sum shall cover all costs involved in maintenance, repair or replacement for whatever reason of fences, signs and barricades used for the Works. The rate shall include for the provision of security guards for the safeguarding of the items provided should this be necessary.	Sum	1			
A.31	PS A 8.4.5(b)	e) Implementation and Maintenance of Safety Administration  The sum shall cover all costs involved in establishment of all administrative matters required by this specification which shall include, but not limited to, the maintenance of the Health and Safety File or the completion and recording of the safety check lists required by this specification.	Sum	1			
A.32	PS A 8.4.5(b)	f) Other Health and Safety Fixed-charge Obligations  The sum shall cover the time-related costs of all other obligations that are required for the proper execution of the Works in accordance with the requirements of this specification and that are not specifically covered in A.27 to A.32	Sum	1			
A.33	PSA 8.4.5(a)  A 8.4.5	Appointment of Environmental Control Officer (ECO)  <u>OTHER TIME-RELATED OBLIGATIONS</u>	Sum	1			
A.34	PS A 8.6	a) Provision to be made for remuneration of the Community Liaison Officer (CLO)	Months				
A.35		b) Handling fee for Contractor to CLO	%				
Total Carried Forward							

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**SECTION A: PRELIMINARY AND GENERAL**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
		<u>TEMPORARY WORKS</u>					
A.36	PS A 8.8.9	Water Connection	Sum	1			
A.37	PS A 8.8.10	Electrical Connection	Sum	1			
		<u>FACTORY ACCEPTANCE TESTING (FAT)</u>					
A.40		PC amount for the travelling, accommodation and subsistence of the engineers and client <b>only</b> to execute the FAT applicable for the new pumps and sewerage grinder.  The contractor must price / allow for his own travelling, accommodation and subsistence elsewhere.	PC Sum	1	60,000.00	60,000	00
Total Carried Forward To Summary							

**Tender No : TBC****NABABEEP: CONSTRUCTION OF GRAVITATIONAL SEWER OUTFALL LINE TO EXISTING WWTW****Schedule of Quantities****SECTION B: GRAVITATIONAL SEWER OUTFALL LINE**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
		<b><u>SECTION B: GRAVITATIONAL SEWER OUTFALL LINE</u></b>					
	SANS 1200 C	<b><u>CLEAR SITE</u></b>					
B.1	PS C 8.2.1	Clear site of all plant, rubble, etc. 1,0 m wider in excavation width and remove material to a dumping site provided by the Client.	m <sup>2</sup>	3,975			
		<b><u>GRAVITY SEWER LINE</u></b>					
	SANS 1200 DB	<b><u>EXCAVATIONS</u></b>					
	PS DB 8.3.2	a) Excavate in all materials, as well as possible pump work and shoring that may be required, for trenches for laying of gravitational sewer network for all dia. pipes specified for the following trench depths in accordance with drawing:					
B.2	PS DB 8.3.2(a)	Exceeding 1,0 m but not exceeding 1,0 m	m <sup>3</sup>	820			
B.3	PS DB 8.3.2(a)	Exceeding 2,0 m but not exceeding 3,0 m	m <sup>3</sup>	930			
B.4	PS DB 8.3.2(a)	Exceeding 3,0 m but not exceeding 4,0 m	m <sup>3</sup>	360			
B.5	PS DB 8.3.2(a)	Exceeding 4,0 m but not exceeding 5,0 m	m <sup>3</sup>	305			
	DB 8.3.2(b)	b) Extra-over items B.2 to B.5 including for (provisional):					
B.6		2) Hard rock excavation (80%)	m <sup>3</sup>	1,932			
B.7	PS DB 8.3.2	c) Trimming of excavation to specified dimensions and levels. Excavation bottom to be compacted to 90% Mod AASHTO.	m <sup>2</sup>	1,225			
B.8	PS DB 8.3.2	d) Backfill with main backfill material as shown on Drawing.	m <sup>3</sup>	1,560			
B.9	PS DB 8.3.2	e) Carting away, dumping, trimming and compaction in layers not exceeding 300mm to 90% Mod. AASHTO of excess material from excavations to a site as provided by the contractor. Free-haul distance 35km or less.	m <sup>3</sup>	755			
Total Carried Forward							

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.10	DB 8.3.2 (c)	f) Additional excavation, not paid under item B.2 to B.5, in all types of material and to any depth, for the construction of manholes.	m <sup>3</sup>	116			
	SANS 1200 LB	<u>BEDDING</u>					
		<u>PROVISION OF BEDDING CRADLE AND BLANKET</u>					
	LB 8.2.2.3	Commercial source (provisional) in accordance with drawing:					
B.11		a) Selected granular material (Cradle) and compacted to 90% Mod. AASHTO,	m <sup>3</sup>	510			
B.12		b) Selected fill material (Blanket) and compacted to 90% Mod AASHTO.	m <sup>3</sup>	245			
	SANS 1200 PS DB 8.3.5	<u>EXISTING SERVICES</u>					
		a) Detection of Services					
	PS DB 8.3.5(a)	Provision must be made to detect and protect existing services against damage.					
B.13		i) Electrical Services	No	1			
B.14		ii) Telkom Services	No	1			
B.15		iii) Water Pipes	No	1			
		b) Moving of Existing Services					
	PS DB 8.3.5(b)	Provision must be made to move existing services detected that are in the way of construction work.					
B.16		i) Electrical Services	No	1			
B.17		ii) Telkom Services	No	1			
B.18		iii) Water Pipes	No	1			
B.19		iv) Storm water pipes	No	1			
		c) Repairing of Damaged Services					
Total Carried Forward							



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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.20	PS DB 8.3.5(c)	Provision must be made to repair existing services damaged by construction which were not shown on drawings nor pointed out by the Engineer.					
		i) Electrical Services	No	1			
B.21		ii) Telkom Services	No	1			
B.22		iii) Water Pipes	No	1			
	SANS 1200 LD	<u>PIPEWORK</u>					
	LD 8.2.1	Supply, lay, joint, bed and test pipe line. All installations shall be in accordance with specifications, drawings and to the supplier's specifications. Price to include all labour, material, compaction, etc. as shown on Drawing and which are not measured elsewhere. Pipes to be supplied for the following pipe diametres:					
		uPVC Sewerage Pipes (SANS 791) (Class 34) inclusive of couplings:					
B.23		a) 315 mm Ø	m	1,075			
B.24		b) 200 mm Ø	m	300			
	PS LD 8.2.13	<u>CONSTRUCTION OF BENCHING FOR MANHOLES</u>					
		Benching to be all inclusive, irrespective the size of the pipes, type or number of intersections in the manhole. See Drawing					
B.25	8.2.13	a) 1250 mm Ø	No	23			
	PS LD 8.2.3	<u>CONSTRUCTION OF PRECAST MANHOLES</u>					
		a) Concrete Rings					
B.26		i) 1500 mm Ø Chamber Sections	m	52			
	SANS 1200 GE	b) Rocla or Equal Approved Precast Concrete Slabs with Access Opening					
B.27	8.2.1	i) Heavy Duty (1500 mm Ø)	No	23			
		c) Rocla or Equal Approved Precast Manhole Covers (SANS 559)					
Total Carried Forward							

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**SECTION B: GRAVITATIONAL SEWER OUTFALL LINE**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
B.28		i) Heavy Duty (135 kN) (SABS 1294)	No	23			
Total Carried Forward To Summary							

***Tender No : TBC*****NABABEEP: CONSTRUCTION OF GRAVITATIONAL SEWER OUTFALL LINE TO EXISTING WWTW****Schedule of Quantities****SECTION C: GAATJIE SEWER GRAVITATIONAL NETWORK**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
		<b><u>SECTION C: GAATJIE SEWER GRAVITATIONAL NETWORK</u></b>					
	SANS 1200 C	<u>SITE CLEARANCE</u>					
C.1	PS C 8.2.1	Clear and grub (1.0 m wider than excavation strip) for sewer pipeline routes not in the street reserve	m <sup>2</sup>	1,340			
	SANS 1200 DB	<u>EXCAVATION</u>					
	DB 8.3.2a	Excavation of trenches for sewer pipelines in all materials, pipe diameter plus 600 mm wide, backfill and compacted according to DB.8.3.2 including disposal of surplus material, shoring or protection of trench excavations (>1.5 m deep) as per Construction Regulations where applicable for trench depths of :					
		Up to 200 mm pipelines:					
C.2		Over 0.0 m and up to 1.0 m	m <sup>3</sup>	40			
C.3		Over 1.0 m and up to 2.0 m	m <sup>3</sup>	660			
C.4		Over 2.0 m and up to 3.0 m	m <sup>3</sup>	354			
C.5		Over 3.0 m and up to 4.0 m	m <sup>3</sup>	30			
	DB 8.3.2a	Excavation of sewer yard connections 800 mm wide, backfilled and compacted including shoring of trench excavations >1.5 m where applicable					
C.6		110 mm Yard connections	m <sup>3</sup>	295			
C.7	DB 8.3.2b	Extra over items D.2 to D.6 for hard rock excavation (80%)	m <sup>3</sup>	1,096			
C.8	DB 8.3.3.1	Make up deficiency in backfill material from commercial sources (No additional payment for overhaul)	m <sup>3</sup>	310			
	DB 8.3.5a	<u>SERVICES THAT INTERSECT A TRENCH</u>					
C.9		All types and sizes of water pipe lines	No	5			
C.10		All sewer pipes	No	5			
C.11		LV Electrical cables	No	5			
Total Carried Forward							

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
C.12		HV Electrical cables	No	5			
C.13		Telkom cables	No	5			
C.14		Existing surfaced roads	No	0			
C.15		Fences	No	70			
C.16		Overhead LV and HV electrical cables	No	5			
C.17		Telkom and electricity poles	No	5			
	DB 8.3.5b	<u>SERVICES THAT ADJOIN A TRENCH</u>					
C.18		All types and sizes of water pipe lines	m	10			
C.19		All sewer pipes	m	10			
C.20		LV Electrical cables	m	10			
D.21		HV Electrical cables	m	10			
C.22		Telkom cables	m	10			
C.23		Existing surfaced roads	m	0			
C.24		Fences	m	140			
C.25		Overhead LV and HV electrical cables	m	10			
C.26		Telkom and electricity poles	m	10			
		<u>FINISHING</u>					
C.27	DB 8.3.6	Construction of 800 mm wide road crossing (300 mm road pavement in layers of 150 mm) or as specified.	m <sup>2</sup>	20			
C.28		Reshape and compaction of gravelled shoulders	m <sup>2</sup>	50			
	SANS 1200 LB	<u>SELECTED BEDDING AND BLANKET</u>					
C.29	LB 8.2.2.3	Import and compact red sand for bedding around sewer pipelines according to Drawing	m <sup>3</sup>	195			
C.30	LB 8.2.2.3	Import red sand and compact selected blanket material above sewer pipelines according to Drawing	m <sup>3</sup>	115			
	SANS 1200 LD	<u>PIPE LAYING</u>					
Total Carried Forward							

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ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
C.31	LD 8.2.1	Supply, lay, test and bed the following sewer pipes complete with couplings  160 mm diameter uPVC pipe with smooth inner and outer wall (400kPa)	m	756			
C.32		110 mm diameter uPVC pipe with smooth inner and outer wall (400kPa) for house connections	m	246			
	SANS 1200 LD	<u>MANHOLES</u>					
	PS LD 8.2.3	Excavate, backfill, and construct <b>1.0 m Ø</b> precast manholes with heavy duty concrete lid and frame complete with benching according to detail drawing for the following depths:					
C.33		Depth of manhole : 1.01 - 2.0 m	No	11			
C.34		Depth of manhole : 2.01 - 3.0 m	No	15			
	LD 8.2.3	Excavate, backfill, and construct precast manholes with <b>1.25 m Ø</b> precast manholes with heavy duty concrete lid and frame complete with benching according to detail drawing for the following depths where manholes are deeper than 3.0 m:					
C.35		Depth of manhole : 3.01 - 4.0 m	No	2			
C.36	LD 8.2.4	Extra over items D.33 to D.35: Supply and install extra uPVC pipework and fittings for drop manholes as per detail drawing, including all material and labour costs	No	36			
	SANS 1200 LD	<u>ERF CONNECTIONS</u>					
	LD 8.2.6	Supply, lay, test and bed the following fittings with couplings complete with 110 mm Ø uPVC pipe (400 kPa) extension for erf connection.					
C.37		160 mm x 110 x 45° uPVC junctions	No	70			
C.38		110 mm x 45° uPVC bends	No	70			
C.39		110 mm End caps	No	70			
		<u>CONNECTION TO EXISTING TOILET STRUCTURES</u>					
Total Carried Forward							

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**SECTION C: GAATJIE SEWER GRAVITATIONAL NETWORK**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
						R	c
Brought Forward							
C.40		Supply all plant, labour and material to construct complete 110 mm Ø connection from existing toilet structures to new erf connections. Price shall be all inclusive, including excavation, trimming, backfilling, laying of 110 mm Ø uPVC Class 34 pipe complete with required fittings, backfilling, compaction and testing. Pipework shall be installed at a minimum depth of no less than 600 mm cover to soffit of pipe at a minimum slope of no less than 1:60. Estimated length of pipework = 50 m/erf	No	70			
C.41	LD 8.2.9	Supply and installation of marker posts as per detail drawing at sewer erf connections	No	70			
	DB 8.3.7	Accommodation of traffic					
C.42	PS DB 8.3.7.1	Barricading of all open trenches over night as prescribed by the engineer	m	100			
<b><u>CONNECTION TO EXISTING MANHOLES</u></b>							
C.43	PS LD 8.2.11	Excavate, backfill and connect new sewer network to the existing outfall line manhole /pipe	No	5			
	SANS 1200 GA	<b><u>CONCRETE</u></b>					
C.44	GA 8.4.1	Supply all material and plant to cast concrete (20 MPa) where so instructed by Engineer.	m <sup>3</sup>	5			
Total Carried Forward To Summary							

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**SECTION D : CONTINGENCIES**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
						R	c	
D.1		<p><b><u>SECTION D: CONTINGENCIES</u></b></p> <p>Provide an amount that can be used in total or partially to cover for unforeseen or additional work as instructed in writing by the Engineer. This amount will be deducted from the contract amount should it not be required.</p> <p>Amount = 0,10 (Sum of Section A - C)            = 0,10 x R.....            Amount = R.....</p>	%	10				
Total Carried Forward To Summary								

NAMA KHOI LOCAL MUNICIPALITYTENDER NONABABEEP: CONSTRUCTION OF GRAVITATIONAL SEWER OUTFALL LINE TO EXISTING  
WWTW**SCHEDULE OF QUANTITY SUMMARY**

<b>SECTION NO</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
A	PRELIMINARY AND GENERAL	R -
B	GRAVITATIONAL SEWER OUTFALL LINE	R -
C	GAATJIE SEWER GRAVITATIONAL NETWORK	R -
D	CONTINGENCIES	R -
	Nett Tender Total <b>Excluding</b> VAT	R -
	ADD : VAT @ 15% on Nett Tender Total	R -
	TOTAL CARRIED TO TENDER FORM, <b>INCLUDING VAT @ 15%</b>	R -