

SCOPE OF WORK FOR THE SUPPLY & INSTALLATION OF HDPE AT FOSKOR ACID PLANT

Tender No:

Cost Code:

Revision¹: 0.1.n see legend at bottom of page

Revised date: 12 June 2023

NAME	TITLE	EMPL. No	SIGNATURE	DATE
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COMPILED - RECOMMENDATION

Sethenjwa Mwandla	Maintenance Technician	504367		06/09/2023
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COMPREHENSION AND ACCEPTANCE

Akhil Kumar Dwivedi	Maintenance Engineer	503700		29 AUG 2023
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APPROVAL TO PROCEED

Sifiso R Majola	Senior Manager Maintenance	15480		08/09/2023
Charles Mavuso	Senior Manager SHREQ	504688		18/09/2023
Sam Mbuyazi	General Manager Acid Division	500441		19/09/2023

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Section A: INVITE AND TENDER INSTRUCTIONS

A.1 Invitation to tender

A.1.1 Tenderers are invited to submit a tender in accordance with this Tender Document.

The fixed annual rate contract for the supply & installation of high-density polyethylene piping.

The tender Instructions are to be found in **Section A**.

The Contract Works Forms of Tender is stipulated in **Section B**.

The detailed Scope of Work and Specifications are to be found in **Section C**.

Technical Evaluation Criteria **Section D**.

The Conditions of Contract are stipulated by **Foskor (Pty) Ltd, Procurement Department**.

A.1.2 At the time of tendering, any queries and/or doubts within the scope, specifications or drawings shall be referred to:

Designation

Buyer: MRO Maintenance

For the attention of

Telephone

Fax

Cell no

Email

A.2 Return of Tender Documents

- A.2.1 One copy of this document, duly completed and signed by the Tenderer, shall be delivered in a plain sealed envelope, distinctly marked as follows:

TENDER

Tender No.

Contract Title:

Closing Date & Time:

**The Fixed Annual Rate Contract for
the Supply & Installation of HDPE.**

The Manager Procurement
FOSKOR LIMITED
21 John Ross Parkway
Richards Bay

- A.2.2 Tenders shall be placed in the **Tender Box at Foskor Richards Bay Main Administration Reception** no later than **12h00 noon** on the closing date.

- A.2.3 A tender sent by fax shall not be accepted.

- In case of Tenderers not being local, and not being in a position to hand deliver tender documents to the above-mentioned location, Tenderers may use an approved document courier for the purpose of delivering the tender document to Foskor (Pty) Ltd. This would be subject to auditable proof of dispatch from the Courier Company (including time and date of dispatch).
- Such proof shall be faxed and confirmed as addressed to **MRO Maintenance Specialist, FOSKOR (PTY) LTD, 21 John Ross Parkway, Richards Bay**, facsimile number as indicated under item A.1.2 before the closing time and date of the tender.
- Foskor shall take no responsibility for lost courier documents – prior to opening of tenders - and onus rests on Tenderer to keep duplicate of Tender Submission.
- In this case the sealed envelope shall remain addressed as per paragraph A.2.1, and shall be placed in a sealed courier bag with the following street address delivery instructions:

**FOSKOR (PTY) LIMITED - (TENDER BOX)
21 John Ross Parkway
Richards Bay
3900**

- A.2.4 Tenders will not be opened in public and under no circumstances will the price(s) at which any Contract was awarded be divulged to any person.

- A.2.5 In the event that the Tenderer did not submit a tender or if his tender was unsuccessful, the Tenderer shall return the Enquiry Document and Drawings within **14 days** to **MRO Maintenance specialist**.

A.3 Site Inspection

Note: Site inspection is mandatory for this contract of supplying & installation of HDPE piping.

An official Site inspection shall be held at the **Foskor, Richards Bay** site in order for the Tenderer to fully acquaint themselves with prevailing site and works conditions. In so doing you are to ensure that you fully understand the context and extent of the works (refer B.5 – Site Inspection Certificate).

Date of Site Visit		
Time of Site Visit	From:	To:
Meeting Venue	Report at Main Security Entrance	

Please wear the following protective clothing:

Overalls (Acid Proof),
Hard Hat
Safety Shoes
Safety Glasses
Hearing protection
Gloves
Gas respirator

Yes
Yes
Yes
Yes
Yes
Yes
Yes

IMPORTANT

- Please note that a Safety Induction is MANDATORY and all Tenderers to allow for at least **30 minutes** before the Site Meeting start, to complete the induction.

A.4 Examination and Completion of Documents

- A.4.1 The Tenderer shall examine all documents forming part of the Tender and submit their tender accordingly. All drawings, addendums, annexures received with the Tender documents must be returned with your company stamp and/or signature, as a comprehensive part of your Tender Submission. Failure to do so may result in disqualification from tender.

Tender in accordance with this format and submit documents as specified below.

A.4.2 The Sections of this document shall not be separated in any way, nor shall any pages be detached therefrom.

A.4.3 The Tenderers submission is to include all Financial and Contractual detail and be signed (by authorized person) and/or company-stamped together with tender submission.

A.4.3.1 Schedule of rates of Costs in detailed Breakdown as per Bill of Quantities.

A.4.3.2 Initial Project Program of Works, Work Methodology, and Cash Flow (structured similarly to payment terms).

A.4.3.3 Quality Control Plan (QCP), that shall include all those activities necessarily for the control of quality of work.

A.4.3.4 Schedule of Key Personnel on the Contract.

A.4.3.5 Schedule of Similar Contracts Undertaken.

A.4.3.6 Site Inspection Certificate – signed by Tenderer as proof of attendance.

A.5 Contract Documents Priority

The eventual Contract shall comprise the documents as stated in this tender document, your Tender submission by which you agree and the Foskor (Pty) Ltd Terms and Conditions, which shall be interpreted in accordance with the order of priority stated in the said Conditions.

A.6 Alterations by Tenderer

A.6.1 Should the Tenderer propose any departures or modifications from the Conditions of Contract, Specifications, or to qualify their tender in any way, he/she shall set out his/her proposals clearly in the covering letter attached to this Tender with reference to the particular section of the document, failing which the tender will be deemed to be unqualified. Any proposed technical departures from Foskor (Pty) Ltd.'s Requirements or Specifications shall only be considered if submitted in writing together with a detailed motivation for such departures.

A.6.2 The Tenderer shall include in respect of each proposed alteration the following:

- a) Reason for proposed exception.
- b) Suggested re-wording.
- c) Any effect on the tender price.
- c) Any effect on the execution of the scope of supply.
- d) Any effect on Foskor's overall program objectives.

If any of the above information is not supplied, the Tender may be regarded as non-compliant.

A.7 General

- A.7.1 Foskor (Pty) Ltd reserves the right to adjust arithmetical or obvious errors in the Tender. Such adjustments made by Foskor (Pty) Ltd will be communicated to the Tenderer prior to the acceptance of his Tender.
- A.7.2 The Tenderer (whether his Tender is accepted or not) shall treat the details of the Tender as private and confidential and no copies shall be made thereof without the permission of Foskor (Pty) Ltd.
- A.7.3 Foskor (Pty) Ltd is not bound to accept the lowest or any other Tender it may receive, nor to assign a reason for the rejection or acceptance of any Tender, and Foskor (Pty) Ltd has the right, after Tenders are opened, and before a Contract is awarded, to enter into negotiations and discussions with one or more Tenderers short-listed on a price, programmed or technical basis, with a view to the clarification, improvement or amendment of any particular Tender.
- A.7.4 All Tenderers tender at their own risk and Foskor (Pty) Ltd is not bound to accept any Tender and under no circumstances whatsoever will be responsible for any costs incurred by any Tenderer in compiling or submitting the tender.
- A.7.5 Furthermore, Foskor reserves the right to accept only a part of the Tender, with due communication and agreement of the Tenderer.
- A.7.6 The Tenderer is required to submit a 'bona fide' Tender, intended to be competitive and not to fix or adjust the amount of the Tender by or under or in accordance with any agreement or arrangement with any third party. The Tenderer is also obliged to ensure that it has not and will not at any time before the hour and date for the lodging of this Tender do any of the following acts:
- a) Communicate to any person the amount or approximate amount of the proposed Tender except where the disclosure, in confidence, of the amount of this Tender was necessary for the preparation of the Tender.
 - b) Enter into any agreement or arrangement with any third party that shall disqualify from or that Foskor shall refrain from using.
 - c) Commit any act or omission that would be contrary to the Maintenance and Promotion of Competition Act 96 of 1979 and notices and regulations published in terms of that Act, especially the notice published in the Government Gazette of 2 May 1986 or contrary to the Harmful Business Practices Act 71 of 1988.

Section B: FORMS OF TENDER TO BE SUBMITTED

B.1 Schedule of Rates or Summary of Bill of Quantities

	From Bill of Quantities – if applicable or →	qty	x rate =	ZAR
1.0	SUB TOTALS:			
1.00	Bill No.1 Preliminary & General (P&G).			
1.01	Bill No.2 Costs Breakdown as per Bill of Quantities.			
	Sub Totals Sum (Excluding VAT)			
2.0	Add: VAT			
3.0	Total Tender Sum (Including VAT)			

- B1.1 In the event of their being any obvious errors of pricing, extensions or additions in the priced Cost Schedule attached, we agree to their being corrected, and the contract amount altered accordingly.
- B1.2 We further undertake that this tender cannot be withdrawn or retracted for **90** (ninety) days from the closing date.
- B1.3 Notwithstanding that, this tender is submitted by invitation, it is clearly understood and agreed that there is no obligation upon Foskor to accept the lowest or any tender.
- B1.4 The tendered prices are fixed and firm for the duration of the contract, and unless otherwise agreed to in writing a 10% retention (held for 18 months, unless otherwise specified) shall be deducted on all payments made for the Liability Period as defined in B.2. This clause also refers to 'Handover' as specified in **B 2.1**
- B1.5 Unless or until a formal agreement is prepared and signed, this tender, shall serve as your written acceptance and constitute a binding contract between Foskor and Yourself.

Amount In Words:

Signed aton.....

Signature
For and on behalf of the Tenderer (duly authorized)

.....
Company Stamp

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B.2 Initial Project Programmed of Works, Work Methodology and Cash Flow

(This is a workable schedule, and the Contractor is in no way obligated to these dates. An obligatory final programme will only be required once the tender is awarded)

Commencement Date

Within 7 days from receipt of Purchase order.

Completion of Works/ Final Handover (Guide: Contract/Project duration)

36 Months contract

OTHER IMPORTANT NOTES

- **'Defects Liability Period'** shall be that period in force for Foskop to call upon the Contractor/Consultant to rectify at no cost to Foskop (Pty) Ltd any defects of workmanship, quality or practice; and shall remain in force **in parallel with the Retention Period** and any other duration agreed to.
- The Tenderer is to list and motivate any deviations in terms of Project Program and/or time allowed, and this is subject to approval by the Foskop (Pty) Ltd Engineer.
- It would be expected, in the event of critical work and/or work behind programme/schedule, should such be attributable to the Contractor, to make up the time and work and complete the work at no cost to Foskop (Pty) Ltd.
- The Tenderer shall within **7 (seven)** days of contract award submit a final detailed work methodology and programme, and the final work methodology shall be verified and approved by Foskop (Pty) Ltd.
- The Tenderer is welcome to propose alternatives work methodology or approach to work, that may be of mutual benefit. This would be submitted in the form of an Alternative (clearly marked), however the Tenderer is **still to submit a tender in the form specified** in this tender.
- The Tenderer shall submit a Work Breakdown Structure (WBS) and compile a programme (use MS Projects).
- If the Tenderer is partially or wholly responsible for the design or design drawings according to which construction is specified, any corrections to design/design drawings shall remain for the Tenderers account for a period of 6 months (or as otherwise agreed) after project completion. This is to ensure that poor design or inaccuracy of designs is rectified at no cost to Foskop.

B.2.1 Project/Contract Completion and Handover; Retention

Unless otherwise agreed, Project/Contract Completion (handover), shall be deemed to be from date of Foskop issuing a Project Complete/Handover Certificate to the Contractor. This should be expected to be received within seven (7) days from date of receipt by Foskop of the complete Data Pack in its acceptably certifiable form (refer Section C of this document, **Quality Control**). Once the project has reached completion as defined by this scope, onus rests on the Tenderer to request from Foskop a Project Complete/Handover Certificate, which receipt shall define and signify the commencement of Retention Period.

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B.2.2 Initial Program to be Submitted

The interim and final project completion dates, as indicated in the above table should be used as the guideline for the Tenderer to compile the detail project schedule.

After the contract agreement is accepted (by signature of an agreement or acceptance of a Purchase Order) the dates shall be fixed and shall be applicable to the penalty clause as per agreement.

ATTACH GANT CHART AND/OR BAR CHART TO THIS PAGE

Note: Gant chart will be required for project work when performing HDPE piping.

B.3 Schedule of Key Personnel on the Contract

The Tenderer shall:

1. Complete below concerning the Key Personnel on the contract, indicating also if the person is employed by the Tenderer, a sub-contractor or temporary employed person.
2. Submit a contract organogram showing the relationships and authority.

Key Personnel	Name and Surname	Full/Part Time on site, off-site?	Employed, Sub-Contractor or Temp?	Years Related Experience
Contract/Site Manager/Leader				
Quality Assurance/Control Inspector				
Safety Officer				
Pipe Fabricator				

These persons shall not be substituted without prior consultation with and approval from Foskop (Pty) Ltd.

Failure to submit this information at the time of tender could lead to disqualification of the tender.

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B.4 Schedule of Similar Contract Undertaken

Please provide a list of work done on contract of which the Scope of Works that are similar to the one described in this document (or attach references).

Completed Month, Year	Description	Client Name	Contact Person And Details	Value

B.5 Site Inspection Certificate – To be signed by Tenderer

This is to **CERTIFY**, that we.....
(Name (s) in CAPITAL LETTERS) (Referred to on the Form as "We")

representing and being duly authorized by:

.....
(Name of Company and Address) (Referred to on the Form as "We")

1. Visited the SITE on (date).
2. Received the TENDER Documents (including all attachments and subsequent correspondence related to this tender).
3. Carefully examined the SITE and made us familiar with all local conditions likely to influence the WORKS and the cost thereof.

We further CERTIFY that we are satisfied with the description of the WORKS and explanations given by Foskor (Pty) Ltd and that we fully understand the nature of this TENDER.

I/We are,

Yours faithfully

SIGNATURE: _____

ON BEHALF OF: _____

DATE: _____

AS WITNESS: _____

Section C: SCOPE OF WORKS

C.1. Background, Present Situation and Proposed Solution

Foskor Richards Bay uses HDPE Pipes in the process of manufacturing Phosphoric Acid and Phosphate Based Fertilizer. The production of Phosphoric Acid takes place in two plants: namely Old Plant and New Plant using rock phosphate and Sulphuric acid as raw materials. These plants make use of various vessels and pipelines constructed from HDPE.

Foskor would like to engage a supplier that will supply, install, & service all the HDPE Pipes and relevant work.

The main purpose of this exercise is to ensure that the quality service is given at any time and at known cost.

It is requested that contractor will be appointed on contract to be available 24/7 to do HDPE repairs and attend to any breakdown immediately due to the high volume of HDPE pipes on site. The requirements of this contract will be discussed in the scope of work document.

C.2. Legislation, Standards and Codes of Practice

Latest revisions or amendments of the listed codes and specification are applicable to this contract:

Number	Title / Description	Revision
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
ISO 9001	Quality Management Systems (QMS)	Latest
ISO 45001	Health & Safety Management Standard	Latest
SABS 1200	All Relevant Specifications	Latest
SANS/ISO 4427	Plastic Piping System	Latest

All work listed in this scope of work shall be completed in accordance with the specifications and codes as listed above. It is the responsibility of the Tenderer to be in possession of the latest standards and codes as listed above in the execution of this project.

C.3. Foskor Specifications

All work listed in this scope of work shall be completed in accordance with the specifications listed below.

Those specifically applicable to this Tender is **marked with "YES"**, **however** it does not exclude other specification listed or implied, and it remains the Tenderer's responsibility to ensure that work execution and tender prepared is in line and meets the requirements of all standards indicated or not.

Number	Title/Description	Version	Applicable
E 006	Low Voltage Distribution Boards	Latest	
E 008	Luminaries	Latest	
E001	Low and Medium Voltage Motors	Latest	
E002	400V AC Distribution Switchgear & MCC's	Latest	
E003	Industrial Electrical Installations	Latest	
EC1	Installation, Testing and Commissioning of electrical equipment	Latest	
EE1	Motor Control Centre and Switchgear	Latest	
EE2	Squirrel Cage Induction and Wound Rotor Motors	Latest	
EE6	11KV Power Transformers	Latest	
FC005	General Earth Works to Plant and Building	Latest	
FC016	General Road Works	Latest	
FC021	General Specification for Terrace Construction	Latest	
FC026	General Specification for Road works	Latest	
FD001	Design Criteria for Structures	Latest	
FG001	General Requirements for Projects/Work	Latest	
FL001	Design and Fabrication Criteria for Ladders and Walkways	Latest	
FM001	General Mechanical Specification	Latest	Yes
FM002	Rubber lining of Vessels and Piping	Latest	
FM003	Welding of Fabricated Equipment	Latest	
FM273	Fire Tube Waste Heat Boiler	Latest	
FM432	Canvas specification	Latest	
FQ001	General Engineering Quality Requirements	Latest	Yes
FQ002	Non-Destructive Testing	Latest	
FS001	Fabrication and Erection of Structural Steel	Latest	
FS002	Specification of Roof and Side Cladding	Latest	
FT001	Trestles and Access Platforms	Latest	
FV001	Requirements Vessels, Tanks and Heat Exchangers	Latest	

FY001	Design/Fabrication of Piping	Latest	Yes
GC1	Civil excavation, Form work and Concrete work	Latest	
GC2	Interlocking Paving	Latest	
GC3	Packing and Grouting	Latest	
GD1 R	General requirements for Design	Latest	
GE1	Design of Electrical Installation1	Latest	
GM1	General Mechanical	Latest	Yes
GM2	Mechanical Erection	Latest	Yes
GM3	Surface preparation and protection specification: Paint	Latest	
GM4	Pressure Vessels including Auxiliary equipment	Latest	
GM5	Pipe Standards Including Auxiliary Equipment	Latest	Yes
GM6	Engineering Drawing and Document requirements	Latest	
MC002	Scope of Corrosion Protection Richards Bay	Latest	Yes
MC003	Painting High Spillage Areas	Latest	
MC004	General Plant Painting Specification Low Temperature	Latest	Yes
MC005	General Plant Painting Specification High Temperature	Latest	Yes
MC006	Repair Damaged Steel Work	Latest	Yes
MC007	Steel Denso Wrap System	Latest	
MC008	Pipe/Flange Protection Denso Wrap System	Latest	
MC009	General Plant Protection High Corrosive Areas	Latest	Yes
MC010	Painting Tank Grillage and bottom side of floor plate	Latest	
MC011	Internal Painting of Tanks with Demineralized Water	Latest	

Number	Title/Description	Version	Applicable
APPLICABLE	SULPHOS PROJECT SPECIFICATIONS on this Tender		
SS-000000-C-005	Earthworks to foundations and buildings	Latest	
SS-000000-C-006	General specification for concrete construction	Latest	
SS-000000-C-007	Concrete specification	Latest	

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SS-000000-C-012	Grouting	Latest	
ST-000000-C-016	General road works	Latest	
SS-000000-C-017	Underground gravity pipelines, cable ducts and drain	Latest	
SS-000000-C-021	Terrace construction	Latest	
ST-350999-316-001	Civil and Building work- Sulphuric acid plant	Latest	
SS-000000-E-003	Industrial electrical installations	Latest	
SS-000000-G-001	Project general	Latest	
SS-000000-G-003	Corrosion protection	Latest	
SS-000000-Q-001	General quality requirements	Latest	Yes
SS-000000-Q-002	Non destructive testing construction site	Latest	
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	
SS-000000-S-002	Roof & side cladding (by BEMA)	Latest	
SS-000000-M-023-A	Brick lining of rubber lined carbon steel equipment	Latest	
SS-000000-M-002-00	Rubber lining for steel equipment and piping	Latest	

It is the responsibility of the Tenderer to be in possession of the latest specifications as listed above or implied in the execution of this project.

The Contractor is referred to the Specification mentioned for full descriptions of materials and methods referred to in these Bills of Quantities/Lump Sum documents, insofar as they apply.

The Contractor is advised to study the referred to specification before pricing Bills of Quantities/Lump Sum documents.

No claim whatsoever will be allowed in respect of errors in pricing due to brevity of description of items in the Bills of Quantities/Lump Sum documents which are fully described when read in conjunction with the relevant Preambles and/or Specifications.

Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9001 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

The Contractor is hereby informed that where SABS/SANS Specifications are referred to in these Bills of Quantities/Lump Sums documents and Specifications thereto, then ONLY the Specification of Work Clauses will apply. The method of measurement and payment clauses will NOT apply to this Contract.

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C.4. Project Requirements

The main purpose of this scope of work is to fix the annual rate contract for the supply & installation of HDPE pipes and fittings at Richard's Bay Foskor Acid Plant.

The main works is of an inspection nature and requires the supply of all (including but not limited to):

- Materials,
- Specifications,
- Labour,
- Tools,
- Consumables,
- Scaffolding (Supplied by Foskor)
- Mobile Crane (Supplied by Foskor)
- Transport.

C.5. Plant Data

All work listed in the document will be executed for and at FOSKOR (PTY) LTD, The **RICHARD'S BAY PLANT, 21 JOHN ROSS PARKWAY.**

C.6. Scope of Work – General

1. The contractor to supply and install H.D.P.E pipes and fittings at Foskor Acid Division.
2. The contractor to comply with all SHREQ and Procurement Policies as prescribed by Foskor.
3. The contractor shall supply new material only if recycled HDPE material is not available within Foskor premises.
4. To avoid delays due to handling recycled material outside Foskor site, the contractor shall use the available in-house facilities for pipe installation & repairs or should be willing to bring the fabricating equipment inside Foskor site and when required.
5. Supply of HDPE pipe material includes metal mild steel flanges with galvanized coating and repair of HDPE pipes at Foskor on a contract basis as per attached list.
6. All material supplied, installation, and repairs shall comply with the requirements of standards & codes of practice as listed above.

7. When needs arises, (standby, weekends and holidays) a contractor is allowed a maximum of **4(four) hour** response time from receipt of official Emergency order number to report to the Foskor site for a service.
8. Failure to satisfy this requirement will result in a none-conformance being raised against a contractor and that eventually the termination of job contract.
9. The Foskor responsible person will provide the necessary information to assist the contractor on repairs.
10. The contractor shall quote for the supply of HDPE pipe per meter for the following pipe sizes 2" inch to 20" inch.
11. The contractor must quote for dismantling pipes per meter for the pipe sizes listed above. This shall include T-Pieces and bends.
12. The contractor shall quote for the installation of the following fittings including stubs with ANSI ASA 150 galvanized Carbon steel flanges for the pipe sizes.
 - Straight run of pipe per meter length
 - T-pieces
 - Elbows
 - Long and short radius bends
13. The contractor shall quote for the supply, and erection of supports per running meter for the above pipe's sizes. Only Foskor standard design for supports that must be used, this is available from Foskor Drawing Office on request.
14. The corrosion protection of the support shall be according to Foskor Scope of Corrosion Protection MC 002, General Plant Painting Specification Low Temperature MC 004, General Plant Painting Specification High Temperature MC 005.
15. The contractor to quote for labor per hour during normal time, overtime and call-out.
16. Only work that complies with Foskor standard will be accepted and quality inspector will verify compliance.
17. Contractor to ensure that the area to work on is safe and clean prior and after the completion of work to adhere to the Foskor procedures for safe disposal of various items.
18. All quotes to include all details as required by the scope of work.
19. The contractor to supply Chemical Compatibility Data for HDPE Material for any solution used in the process.
20. Pipe hydrostatic technical specification, equivalent to PE 100 pipes, which is preferred.

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21. Standard quote to be done on PE100PN16 pipes, unless otherwise specified by an end user.

22. The contractor to supply the following services.

- HDPE Pipes Erection and Supply including labor,
- HDPE Pipes repairs,
- Supply a copy of relevant catalogue,
- Ensure the availability of standby personnel to deliver to Foskor at any given time,
- Ensure the availability of HDPE Pipes, Fittings, elbow and mild steel flanges, &
- Ensure supply of HDPE material as required by Foskor.

23. The contractor will comply with (but not limited to) the following.

- The contractor on entering site must wear Foskor minimum required PPE at all times: namely safety glasses, acid resistant overalls, safety harnesses (on heights), gas mask, safety boots, or steel cap gumboots. Should a contractor be found on site without above mentioned safety clothing, he/she will be removed from site and will not be allowed to return.
- Comply with COP 6 and OHS Acts.
- Submit SHREQ plan to Safety Department for approval prior to commencement of activity.
- Sign Section 37(2) agreement in terms of OHS Act.
- Clean the area on a daily basis.

C.6.1 Tender Required Documents

The following documentation:

- Work Methodology that clearly indicate all the activities to be carried out.
- Reference Letter (Similar Contract Undertaken).
- Quality Control Plan (QCP).
- Key personnel on the contract.
- Pricing detail (as per bill of quantities provided) for activities including materials, site establishment, demobilization, labour etc.

C.6.2 Site Conditions

- It will be imperative for the successful Tenderer to liaise with the Foskor (Pty) Ltd.'s designated team leader (Foskor representative) to ensure safety whenever site access is required.
- Full acid resistant PPE (personal protective equipment/clothing) must be always used.
- Be cautious of Vehicle and machine working in the area at all times.
- As it will be deemed that the prevailing conditions have been considered when tendering, no claims for extras arising from failure to observe all site conditions will be admitted.

C.6.3 Services which are known to exist on the site

The following services exist on the site:

- Water and air pipes.
- Phosphoric acid and Sulphuric acid pipes alongside the bridges
- Electrical cables and racking
- Steam
- Condensate
- Sewer line.
- Data/Instrumentation cables.

1. Foskop Supplied Services

Foskop (Pty) Ltd shall be responsible for:		Applicable:
1	Supply a copy of the relevant Foskop Procedure Specification(s).	Refer C.3
2	Supply a copy of reference drawings if required.	ON REQUEST
4	Provide access to electricity connection points Any connection and consumption will be monitored by Tenderer and verified by Foskop on defined intervals (usually at the beginning and end of contract)	YES
5	Provide access to potable water Connection and consumption would need to be monitored by Successful Tenderer (Contractor) and verified by Foskop on intervals (usually at the beginning and end of contract) defined by Foskop	N/A
6	Provide a suitable area for site establishment for Successful Tenderer (Contractor). - Successful Tenderer to formally in writing motivates, request and define the area and services it deems necessary for site establishment. - Foskop will at its own discretion (if request is approved) allocate a site establishment area, however Foskop can should it deem necessary retract or re-define its approval by giving reasonable notice to the successful Tenderer	ON REQUEST
7	Provide access to ablutions facilities. (Not change rooms) - Successful Tenderer (Contractor)'s workers to be fully dressed in required PPE when coming on site. - The successful Tenderer to ensure that its workers/subcontractors/supplier that are making use of facilities, do so in an orderly and well-mannered way. - Successful Tenderer is not allowed to make use of Foskop's change room or tearoom facilities unless agreed to in writing. - The successful Tenderer might be called on to assist with the maintenance and cleaning of ablutions, should Foskop at its discretion be of the opinion that it be necessary. Cost associated with such cannot be claimed from Foskop (Pty) Ltd.	YES
8	Assist in issuing of work clearances and HIRA certificates.	YES

2. Successful Tenderer (Contractor) Responsibilities

The successful Tenderer (Contractor) shall be responsible for (inter alia):		Applicable:
1	Provision of certificate by being accredited & registered to supply and do installation of HDPE pipes and fittings.	YES
2	Supply all relevant manpower, equipment, tools, consumables, etc. required for the performance and total completion of the contract.	YES
3	All materials and workmanship are to be of the best of their respective kinds and shall be strictly in accordance with the given specifications. Any proposed material substitution is subject to the approval of the FOSKOR Engineer.	YES
4	Supply suitable (approved) personal protective equipment (PPE)	YES
5	To ensure that all work is reviewed by designated Foskop (Pty) Ltd representative at all stages and/or agreed milestones of the contract. All work completed needs to be inspected and approved by the designated Foskop representative (e.g., Supervisor, Engineer/ Manager)	YES

Note that concerning above:

- i. No claims towards losses will be accommodated.
- ii. All items that the Successful Tenderer will bring to Foskop (Pty) Ltd, will be subjected to review and approval by Foskop (Pty) Ltd and shall conform to Foskop procedures.

C.6.4 Requirement for the termination, diversion, or maintenance of existing services

Only Applies if/where electrical conductors, pipe conduits, electrical transmitters, ducting or ventilation services are affected. Unless identified as part of the scope, the Contractor must immediately bring to Foskop's attention any previously unspecified or obstructing services existing in his area of work and without terminating/diverting/hindering such services.

C.6.5 Invoicing and Payment

Payment will be made by Foskop (Pty) Ltd, after approval (with consideration for the construction, completion, and defects corrections of the Works) by the Foskop (Pty) Ltd's Project Representative (i.e., Engineer, Project Supervisor) of the submitted Payment Certificate to the Tenderer within **30 (thirty)** days from the date of the Tenderers approved invoice.

The invoice shall be approved in accordance with the provisions of Foskop (Pty) Ltd.'s terms and conditions.

The invoice submitted is to be in a format acceptable to the Foskor (Pty) Ltd.'s Project Representative and need to contain the following minimum information:

- Company details, registration no and VAT registration no,
- Purchase Order no & Date of Invoice,
- Copy of Purchase Order,
- Detail description of work done to date,
- Value of the current claim and work done (excl. VAT),
- VAT charged.

C.6.6 Standing Time

a) Standing time is defined as a period measured in hours, when the Contractor's normal operational cycle is affected by causes by Foskor (Pty) Ltd such as permit issuing and gas leaks and result in a normal stoppage disruption to the regular progress of the Works.

b) Standing time due to rain will not be accommodated when work is done in the plant that is under shelter.

c) Payment to the Contractor for standing time will be certified only where, in Foskor (Pty) Ltd.'s opinion, the delay was clearly beyond the reasonable control of the Contractor and the Contractor further took all reasonable measures to avoid or reduce such delay and such delay imposed direct costs to the Contractor.

C.6.7 Progress of Works

Should Foskor (Pty) Ltd at any time be of the opinion that the rate of progress of the Works or any part thereof is too slow to ensure the completion of the Works or any part thereof by the Completion Date, Foskor (Pty) Ltd shall so notify the Contractor in writing, with specific reference to this Clause, and the Contractor shall thereupon, subject to the approval of Foskor (Pty) Ltd take such steps as are necessary to expedite progress so as to complete the Works or the said part thereof by the Due Completion Date.

C.6.8 Penalty

If the Contractor, by the Due Completion Date, fails to complete the Works to the extent which entitles him to receive a Certificate of Practical Completion, the Contractor shall be liable to Foskor (Pty) Ltd for an amount of **0.1% for every Calendar Day that the works is late or such portion of the contract price as is associated with that part of the Works.**

The imposing of such penalty shall not relieve the Contractor from the obligation to complete the Works or from his obligations and liabilities under the Contract.

C.6.9 Claims: Extension of Time for Completion, Additional Payments, or Compensation**C.6.9.1 Claims Procedure**

The following provisions shall apply:

- i. Claims are to be submitted in writing within **7 days** after the circumstances, event, act or omission giving rise to such claim has arisen or occurred to the Foskor (Pty) Ltd Project Representative
- ii. Submit **written notice** to the Foskor (Pty) Ltd Project Representative of the intention to claim within **7 days** after the circumstances, event, act, or omission giving rise to such claim has arisen or occurred. The Notice and subsequent claim to set out:
 - a. Particulars of the circumstance, event, act or omission giving rise to the claim concerned.
 - b. Provisions of the portion of the contract on which he intends to make the claim.
 - c. Length of extension of time, if any, claimed and the basis of calculation thereof, and
 - d. The Price Adjustment, if any, claimed and the basis of calculation thereof.
- iii. If the Contractor cannot reasonably comply with any of the provision above within the said period 14 days, he shall:
 - a. Notify the Foskor (Pty) Ltd Project Representative in writing of his intention to make the claim and comply with such requirements as he reasonably can.
 - b. Deliver additional information in writing that is reasonably required by Foskor (Pty) Ltd; and
 - c. Comply as soon as practical with such requirements as described above in this clause, within a time agreed to by the Foskor (Pty) Ltd Project Representative.
- iv. In the event of failure to comply to any of the provisions, the claim would not be accommodated and Foskor (Pty) Ltd would be discharged of all liability in connection with the claim.

C.6.9.2 Extension of Time for Completion

The whole works shall be completed within the time agreed upon.

If any circumstances of any kind whatsoever may occur and as such, fairly entitle the Contractor to any extension of time for the completion of the works or portion thereof, then the Foskor (Pty) Ltd Project Representative will consider a claim duly submitted.

C.6.10 Cancellation of the Contract by Foskor (Pty) Ltd

If:

- (a)
 - (i) The estate of the Contractor shall be sequestrated (provisionally or finally), or
 - (ii) The Contractor shall publish a notice of surrender of his estate as insolvent, or
 - (iii) The Contractor, being a company or a close corporation, shall go into liquidation (provisionally or finally), or
 - (iv) The Contractor shall assign the Contract without the consent in writing of Foskor (Pty) Ltd having first been obtained, or
 - (v) The Contractor shall enter into a compromise with the general body of his creditors, or
 - (vi) The Contractor shall have an execution levied on his goods, or
- (b) the Foskor (Pty) Ltd Project Representative shall certify in writing to Foskor (Pty) Ltd, and to the Contractor/Consultant, with specific reference to this Clause, that in his opinion the Contractor/Consultant:
 - (i) has abandoned or repudiated the Contract, or
 - (ii) has, without reasonable excuse, failed to commence the Works in terms of the time allowed and agreed to, or
 - (iii) has suspended the progress of the Works without due cause, or
 - (iv) has failed to proceed with the Works with due diligence, or
 - (v) is not executing the Works in accordance with the Contract, or
 - (vii) has, without the approval of the Foskor (Pty) Ltd Project Representative, subcontracted any part of the Contract, or
 - (viii) has failed to provide the Surety ship, Professional Indemnity within the time stipulated and for 14 days after receiving a written notice from the Foskor (Pty) Ltd Project Representative, referring specifically to the default concerned and to this Clause, failed to remedy the default,
- (c) Foskor (Pty) Ltd may, by written notice to the Contractor, terminate the Contract and withhold any payments due until further notice.

C.6.11 Urgent remedial work

All designs changes or remedial action must be communicated to the Foskor Engineer or the authorized Foskor Designate. Approval of such must be sought and received as early as not to impose undue costs and delays. Should there however be remedial work necessary, the Contractor shall, upon approval from the Foskor Engineer/Designate, effect these with care, accuracy, and speed, so as not to impose undue extension of time and /or cost.

If any work as done by Foskor (Pty) Ltd is work which the Contractor was liable to do at his own expense under the Contract, all costs incurred by Foskor (Pty) Ltd in so doing shall be determined by Foskor (Pty) Ltd or its agent and shall on demand be paid by the Contractor to Foskor (Pty) Ltd.

C.7. Foskor Safety Documents to be submitted, Environmental and Site Management

C.7.1 SHREQ Requirements

The successful Tenderer will be required to comply and ensure continuous compliance with Foskor standards and national regulations:

- Compliance with COP6 (Contractor Management).
- Compliance and signing of Section 37(2) Agreement in terms of the OHS Act at the Foskor (Pty) Ltd Safety Department.
- Compliance with Legislation requirements which includes the OHS Act, NEMA (National Environment Management Act) and other relevant applicable Legislation.

* *Copy of requirements available from Foskor SHREQ Department.*

C.7.2 Environmental Management Specifications

In order to ensure that the construction works is designed for an environmentally sensitive area, strict compliance to the Environmental Management Plan (EMP) guidelines may be requested after appointment of the contractor.

The EMP shall be part of the terms of reference for all contractors/consultants, sub-contractors/consultants, and suppliers.

A copy of the EMP requirements is available from Foskor (Pty) Ltd SHREQ department.

All MSDS's to be submitted to Foskor (Pty) Ltd.

Waste disposal needs to comply to Foskor (Pty) Ltd Waste Management Plan.

C.8. OHSA 1993 Health and Safety Specification

This specification covers the health and safety requirements to be met by the successful Tenderer (Contractor) to ensure a continued safe and healthy environment for all workers, employees, and subcontractors/consultants and for all other persons entering the site of works.

This specification shall be read with the Occupational Health and Safety Act (Act No 85 and amendment Act No 181) 1993, and the corresponding Pressure Equipment Regulations , and all other safety codes and specifications referred to in the said PER.

C.8.1. Health and Safety Induction

The successful Tenderer (Contractor) shall ensure that all employees under his control, including the subcontractors/consultants and their employees, undergo a health and safety induction training course by a Foskor competent person before entering site.

- a. The Contractor shall ensure all his/her personnel have attended the Safety Induction, by Foskor (Pty) Ltd before they enter site.
- b. The Contractor on entering site, must always wear Foskor minimum required PPE namely safety glasses, acid resistant overalls, safety harnesses (on heights), safety boots or steel cap gumboots, ear protection and gas masks (Half mask double filter – screw type with filter type A1B1E1K1 – North Safety Product or similar approved product) and goggles (Uvex ultra vision – W1663459B – DIN CE 0196) preferably in a pouch. Should a Contractor be found on site without the above-mentioned safety clothing, he will be removed from site and will not be allowed to return. FFP3 dust mask fitted with an exhalation valve must be used when working in dust in on the B&D Store.
- c. Overalls must be Blue Sweet Orr overall (80% Polyester 20% Viscose Rayon Acid repellent) with Company names either on front of jacket or back OR Blue North Safety Acid/Flame overall (Flame retardant acid resistant anti-static ATPV 15.4CAL/CM2) with company names either on front of jacket or back and fluorescent reflective strips to be stitched onto sleeves and on the knees.
- d. The Contractor shall demarcate the relevant work area. The Contractor shall supply and erect an appropriate name board with all relevant information and contact details at the work area.
- e. The job risk assessment shall be carried out at the start of each shift. This risk assessment shall cover all activities planned for the relevant shift. The risk assessment shall be submitted to Foskor (Pty) Ltd at the start of each day shift and each night shift.
- f. The Contractor must take safety precautions when working on site.
- g. The Contractor must remove all their equipment within 48 hours after project completion/closure.
- h. A complete safety file to be submitted to Foskor (Pty) Ltd Safety Department before any work commences.
- i. The Contactor's vehicle when entering the Plant must always have rotating orange lights on.
- j. The Contractor and their employees must undergo a full medical at either Foskor (Pty) Ltd.'s Clinic or Caredoc Richards Bay or their approved by Foskor (Pty) Ltd. A full lung function test must be done. If a project is longer than twelve months, then a complete medical including lung function tests must be done again and thereafter the lung function test. Medical certificates are valid for one year only. For medical costs and bookings please contact the Foskor (Pty) Ltd Clinic on 035 902 3287.
- k. A once-off fee is also required for access cards from Foskor Security. Please contact the Foskor (Pty) Ltd Security Reception at 035 902 3267 for information.
- l. No access to elevated platforms, roof and scaffolding will be allowed during rainy days.

CONTRACT FOR THE SUPPLY & INSTALLATION OF HDPE

- m. Due to the length of the project, if over 12 months, it is required of the contractor to show proof of retraining staff working on heights including rope access personnel every month.

MANDATORY AS ENVISAGED BY SECTION 37(2) OF THE ACT

By the submission of a tender, any tenderer will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act.

As a mandatory the successful tenderer will be deemed to be the "principal contractor" and an employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed in accordance with the Act.

It is further noted that (Applicable for work with asbestos): -

- a) The Contractor shall comply with all Foskor Regulations and Safety Standards.
- b) The Contractor shall fully comply with the OHS Act (Act 85 of 1993).
- c) The contractor shall be a registered asbestos contractor in terms of Asbestos Regulations (OHS Act). The contractor must be able to prove the following:
 - 1) Employees are conversant and trained as per regulation 5 of Asbestos Regulation (OHS Act) prior to the exposure of asbestos dust
 - 2) Is a registered asbestos contractor in terms of Asbestos Regulation and compliance with the Asbestos Regulation (OHS Act).
 - 3) Work procedure regarding dismantling of asbestos cement sheeting as per regulation 15 of Asbestos Regulation (OHS Act).
 - 4) Work Plan regarding demolition of asbestos cement sheeting as per regulation 21 of Asbestos Regulation (OHS Act).

IMPORTANT NOTE

The above is a summary of some of matters as defined in the Act. The successful Tenderer (Contractor) is required and advised in his own interest to make a careful study of the Act and the Construction regulations.

Ignorance of the Act and the Regulations will not be accepted in any proceedings, as valid reason if non-conformance to the Act and the Regulations are committed.

C.9. Applicable General Conditions of Contract

Unless expressly otherwise indicated, Foskor General Conditions of Contract and the FIDIC terms of Contract would apply, and is available from the Manager Procurement Foskor Richards Bay.

C.10. Quality Management

The successful Tenderer is to adhere to Foskor (Pty) Ltd.'s Quality Management System and specifications incorporated in this Tender Document.

To ensure that all installations are carried out in a controlled manner, the Contractor shall demonstrate this by means of the internal quality system, which shall include as a minimum a QCP for each piece of equipment. The QCP must be approved by Foskor before commencement of any work.

C.10.1 Quality Control

- i. The Contractor shall produce a Quality Control Plan (QCP), that shall include all those activities necessarily for the control of quality of work.
- ii. Contractor to ensure that all work is prepared in a professional manner by skilled personnel using first class equipment.
- iii. Paint application on pipe supports may proceed only when weather conditions are suitable and if the surfaces to be painted have been properly prepared and are perfectly sound, dry, and clean.
- iv. Contractor to always abide by Foskor Colour Coding Specifications. Refer to MC-001 attached.
- v. At each milestone, Foskor Limited must approve the quality and standard of work being produced. If Foskor is dissatisfied with the quality of work being produced, the Contractor will have to redo work to a standard that is acceptable to Foskor Limited. This will be for the Contractors account. Foskor Limited will not entertain any claims arising from this.
- vi. At each hold and witness point, all work shall be suspended until the specified inspection has been completed and the QCP updated and signed accordingly by Foskor or his representative.
- vii. The methodology shall contain sufficient detail to assure Foskor that the Contractor has a detailed understanding of the work and has the staff and resources to support the project.
- viii. Supplier to ensure accuracy & precision in measuring piping lengths, bends, heights, etc.

C.10.2 Bill of Quantities

ITEM DESCRIPTION A	ITEM NUMBER	ITEM DESCRIPTION B	ITEM DESCRIPTION C	VALUE PER METER LENGTH	ERECTION VALUE PER METER LENGTH
HDPE STUB PE 100 PN 16					
Stubhdpe	0140600235	HDPE stub for pipe OD25mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600236	HDPE stub for pipe OD32mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600237	HDPE stub for pipe OD40mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600238	HDPE stub for pipe OD50mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600239	HDPE stub for pipe OD63mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600240	HDPE stub for pipe OD75mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600241	HDPE stub for pipe OD90mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600242	HDPE stub for pipe OD110mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600243	HDPE stub for pipe OD140mm	SDR 11 Mat-PE 100 Rating-PN16		
Stubhdpe	0140600244	HDPE STUB FOR PIPE OD 180MM	SDR 11 MAT-PE100 RATING-PN 16		
Stubhdpe	0140600245	HDPE STUB FOR PIPE OD 225 MM	SDR 11 MAT-PE100 RATING-PN 16		
Stubhdpe	0140600246	HDPE STUB FOR PIPE OD 280MM	SDR 11 MAT-PE100 RATING-PN 16		
Stubhdpe	0140600247	HDPE STUB FOR PIPE OD 315MM	SDR 11 MAT-PE100 RATING-PN 16		
Stubhdpe	0140600248	HDPE STUB FOR PIPE OD 355MM	SDR 11 MAT-PE100 RATING-PN 16		
Stubhdpe	0140600249	HDPE STUB FOR PIPE OD 400MM	SDR 11 MAT-PE100 RATING-PN 16		
Stubhdpe	0140600250	HDPE STUB FOR PIPE OD 450MM	SDR 11 MAT-PE100 RATING-PN 16		
HDPE PIPE PE PN 12.5					
Pipchdpe	0130500218	PIPE HDPE HAVING OD 25 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500219	PIPE HDPE HAVING OD 32 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500220	PIPE HDPE HAVING OD 40 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500221	PIPE HDPE HAVING OD 50 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500222	PIPE HDPE HAVING OD 63MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500223	PIPE HDPE HAVING OD 75 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500224	PIPE HDPE HAVING OD 90 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500225	PIPE HDPE HAVING OD 110 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500226	PIPE HDPE HAVING OD 140 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500227	PIPE HDPE HAVING OD 180 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500228	PIPE HDPE HAVING OD 225 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500229	PIPE HDPE HAVING OD 280 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500230	PIPE HDPE HAVING OD 315 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500231	PIPE HDPE HAVING OD 355 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500232	PIPE HDPE HAVING OD 400 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
Pipchdpe	0130500233	PIPE HDPE HAVING OD 450 MM	SDR 11 MAT-PE80 RATING-PN 12.5		
MOULDED HDPE EQUAL TEE PE 100 PN 16					
Teeshdpe	0130500234	MOULDED HDPE EQUAL TEE OD25MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500235	MOULDED HDPE EQUAL TEE OD32MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500236	MOULDED HDPE EQUAL TEE OD40MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500237	MOULDED HDPE EQUAL TEE OD50MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500238	MOULDED HDPE EQUAL TEE OD63MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500239	MOULDED HDPE EQUAL TEE OD75 MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500240	MOULDED HDPE EQUAL TEE OD 90MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500241	MOULDED HDPE EQUAL TEE OD110MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500242	MOULDED HDPE EQUAL TEE OD140MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500243	MOULDED HDPE EQUAL TEE OD180MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500244	MOULDED HDPE EQUAL TEE OD225MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500245	MOULDED HDPE EQUAL TEE OD280MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500251	MOULDED HDPE EQUAL TEE OD315MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500252	MOULDED HDPE EQUAL TEE OD355MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500253	MOULDED HDPE EQUAL TEE OD400MM	SDR 11 MAT-PE100 RATING-PN 16		
Teeshdpe	0130500254	MOULDED HDPE EQUAL TEE OD480MM	SDR 11 MAT-PE100 RATING-PN 16		

HDPE CON REDUCER PE 100 PN 16				
Reducerhdpe	0140600224	HDPE CON REDUCER 25MM X 20MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600225	HDPE CON REDUCER 32MM X 20MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600226	HDPE CON REDUCER 32MM X 25MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600227	HDPE CON REDUCER 40MM X 20MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600228	HDPE CON REDUCER 40MM X 25MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600229	HDPE CON REDUCER 40MM X 32MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600251	HDPE CON REDUCER 50MM X 25MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600252	HDPE CON REDUCER 50MM X 32MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600253	HDPE CON REDUCER 50MM X 40MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600254	HDPE CON REDUCER 63MM X 25MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600255	HDPE CON REDUCER 63MM X 40MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600256	HDPE CON REDUCER 63MM X 50MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600257	HDPE CON REDUCER 75MM X 40MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600258	HDPE CON REDUCER 75MM X 50MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600259	HDPE CON REDUCER 75MM X 63MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600260	HDPE CON REDUCER 90MM X 50MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600261	HDPE CON REDUCER 90MM X 63MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600262	HDPE CON REDUCER 90MM X 75MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600263	HDPE CON REDUCER110MM X 63MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600264	HDPE CON REDUCER110MM X 75MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600265	HDPE CON REDUCER110MM X 90MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600266	HDPE CON REDUCER140MM X 90MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600267	HDPE CON REDUCER140MM X 110MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600268	HDPE CON REDUCER180MM X 140MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600269	HDPE CON REDUCER225MM X 180MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600270	HDPE CON REDUCER280MM X 225MM	SDR 11MAT-PE100 RATING-PN 16	
Reducerhdpe	0140600271	HDPE CON REDUCER315MM X 280MM	SDR 11MAT-PE100 RATING-PN 16	
FABRICAT HDPE EQUAL TEE PE 80 PN 12.5				
Teethdpe	0130500255	FABRICAT HDPE EQUAL TEE OD75MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500256	FABRICAT HDPE EQUAL TEE OD90MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500257	FABRICAT HDPE EQUAL TEE OD110MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500258	FABRICAT HDPE EQUAL TEE OD140MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500259	FABRICAT HDPE EQUAL TEE OD180MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500260	FABRICAT HDPE EQUAL TEE OD225MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500261	FABRICAT HDPE EQUAL TEE OD280MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500262	FABRICAT HDPE EQUAL TEE OD315MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500263	FABRICAT HDPE EQUAL TEE OD355MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500264	FABRICAT HDPE EQUAL TEE OD400MM	SDR 11MAT-PE80 RATING-PN 12.5	
Teethdpe	0130500265	FABRICAT HDPE EQUAL TEE OD450MM	SDR 11MAT-PE80 RATING-PN 12.5	
FABRICAT HDPE LATERAL PE 80 PN 12.5				
Lateralhdpe	0140600291	FABRICAT HDPE LATERAL OD50MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600292	FABRICAT HDPE LATERAL OD63MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600293	FABRICAT HDPE LATERAL OD75MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600294	FABRICAT HDPE LATERAL OD90MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600295	FABRICAT HDPE LATERAL OD110MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600296	FABRICAT HDPE LATERAL OD140MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600297	FABRICAT HDPE LATERAL OD180MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600298	FABRICAT HDPE LATERAL OD225MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600299	FABRICAT HDPE LATERAL OD280MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600300	FABRICAT HDPE LATERAL OD315MM	SDR 11MAT-PE80 RATING-PN 12.5	
Lateralhdpe	0140600301	FABRICAT HDPE LATERAL OD355MM	SDR 11MAT-PE80 RATING-PN 12.5	
MOULDED HDPE BEND				
Bendhdpe	0130500266	MOULDED HDPE BEND OD25 MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500267	MOULDED HDPE BEND OD32MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500268	MOULDED HDPE BEND OD40MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500269	MOULDED HDPE BEND OD50MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500270	MOULDED HDPE BEND OD63MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500271	MOULDED HDPE BEND OD75MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500272	MOULDED HDPE BEND OD90MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500273	MOULDED HDPE BEND OD110MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500274	MOULDED HDPE BEND OD140MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500275	MOULDED HDPE BEND OD180MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500276	MOULDED HDPE BEND OD225MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500277	MOULDED HDPE BEND OD280MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500278	MOULDED HDPE BEND OD315MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500279	MOULDED HDPE BEND OD355MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500280	MOULDED HDPE BEND OD400 MM	SDR 11MAT-PE100 RATING-PN 16	
Bendhdpe	0130500281	MOULDED HDPE BEND OD450 MM	SDR 11MAT-PE100 RATING-PN 16	

Tender No:

HDPE BUTT WELD JOINT				
Butt joint hdpe	0130500282	HDPE BUTT WELD JOINT OD25 MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500283	HDPE BUTT WELD JOINT OD32 MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500284	HDPE BUTT WELD JOINT OD40 MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500285	HDPE BUTT WELD JOINT OD50 MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500286	HDPE BUTT WELD JOINT OD63 MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500287	HDPE BUTT WELD JOINT OD75MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500288	HDPE BUTT WELD JOINT OD90MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500289	HDPE BUTT WELD JOINT OD110MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500290	HDPE BUTT WELD JOINT OD140MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500291	HDPE BUTT WELD JOINT OD180MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500292	HDPE BUTT WELD JOINT OD225MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500293	HDPE BUTT WELD JOINT OD280MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500294	HDPE BUTT WELD JOINT OD315MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500295	HDPE BUTT WELD JOINT OD355MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500296	HDPE BUTT WELD JOINT OD400MM	SDR 11MAT-PE100 RATING-PN 16	
Butt joint hdpe	0130500297	HDPE BUTT WELD JOINT OD450MM	SDR 11MAT-PE100 RATING-PN 16	
FABRICATED HDPE BEND				
Bendhdpe	0130500298	FABRICATED HDPE BEND OD75MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500299	FABRICATED HDPE BEND OD90 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500300	FABRICATED HDPE BEND OD110 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500301	FABRICATED HDPE BEND OD140 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500302	FABRICATED HDPE BEND OD180 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500303	FABRICATED HDPE BEND OD225 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500304	FABRICATED HDPE BEND OD280 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500305	FABRICATED HDPE BEND OD315 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500306	FABRICATED HDPE BEND OD355 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500307	FABRICATED HDPE BEND OD400 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500308	FABRICATED HDPE BEND OD450 MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500309	FABRICATED HDPE BEND OD75 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500310	FABRICATED HDPE BEND OD90MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500311	FABRICATED HDPE BEND OD110MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500312	FABRICATED HDPE BEND OD140MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500313	FABRICATED HDPE BEND OD180MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500314	FABRICATED HDPE BEND OD225 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500315	FABRICATED HDPE BEND OD280 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500316	FABRICATED HDPE BEND OD315MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500317	FABRICATED HDPE BEND OD355MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500318	FABRICATED HDPE BEND OD400MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500319	FABRICATED HDPE BEND OD450MM	SDR 11MAT-PE80 RATING-PN 12.5	
SEAMLESS HDPE BEND				
Bendhdpe	0130500320	SEAMLESS HDPE BEND OD50 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500321	SEAMLESS HDPE BEND OD63MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500322	SEAMLESS HDPE BEND OD75MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500323	SEAMLESS HDPE BEND OD110 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500324	SEAMLESS HDPE BEND OD140 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500325	SEAMLESS HDPE BEND OD180 MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500326	SEAMLESS HDPE BEND OD225MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500328	SEAMLESS HDPE BEND OD280MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500329	SEAMLESS HDPE BEND OD315MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500330	SEAMLESS HDPE BEND OD355MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500331	SEAMLESS HDPE BEND OD400MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500332	SEAMLESS HDPE BEND OD450MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500333	SEAMLESS HDPE BEND OD50MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500334	SEAMLESS HDPE BEND OD63MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500335	SEAMLESS HDPE BEND OD75MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500336	SEAMLESS HDPE BEND OD90MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500337	SEAMLESS HDPE BEND OD110MM	SDR 11MAT-PE80 RATING-PN 12.5	
Bendhdpe	0130500338	SEAMLESS HDPE BEND OD140MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500339	SEAMLESS HDPE BEND OD180MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500340	SEAMLESS HDPE BEND OD225MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500341	SEAMLESS HDPE BEND OD280MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500342	SEAMLESS HDPE BEND OD315MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500343	SEAMLESS HDPE BEND OD355MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500344	SEAMLESS HDPE BEND OD400MM	SDR 11MAT-PE80RATING-PN 12.5	
Bendhdpe	0130500345	SEAMLESS HDPE BEND OD450MM	SDR 11MAT-PE80RATING-PN 12.5	

CONTRACT FOR THE SUPPLY & INSTALLATION OF HDPE

HDPE COUPLER					
Coupler Hdpe	0140600302	HDPE COUPLER OD 50MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600303	HDPE COUPLER OD 63MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600304	HDPE COUPLER OD 75MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600305	HDPE COUPLER OD 90MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600306	HDPE COUPLER OD 110MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600307	HDPE COUPLER OD 140MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600308	HDPE COUPLER OD 180MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600309	HDPE COUPLER OD 225MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600310	HDPE COUPLER OD 280MM	SDR 11MAT-PE100 RATING-PN 16		
Coupler Hdpe	0140600311	HDPE COUPLER OD 315MM	SDR 11MAT-PE100 RATING-PN 16		
HDPE stubs					
Stubhdpe	0140600200	HDPE stubs PE 100 SDR11	(PN16)		
Stubhdpe	0140600201	HDPE stubs PE 100 SDR11	(PN16) 200mm		
Stubhdpe	0140600202	HDPE stubs PE 100 SDR11	(PN16) 250mm		
Pipe HDPE					
Pipehdpe	0130500203	Pipe HDPE having OD 125mm	SDR 11 Mat-PE80 Rating PN 12.5		
Pipehdpe	0130500204	Pipe HDPE having OD 160mm	SDR 11 Mat-PE80 Rating PN 12.5		
Pipehdpe	0130500208	Pipe HDPE having OD 200mm	SDR 11 Mat-PE80 Rating PN 12.5		
Pipehdpe	0130500209	Pipe HDPE having OD 250mm	SDR 11 Mat-PE80 Rating PN 12.5		
Teehdpe	0130500400	Houkled HDPE Equal Tee OD125MM	SDR 11 Mat-PE100 Pressure		
Teehdpe	0130500401	Houkled HDPE Equal Tee OD160MM	SDR 11 Mat-PE100 Pressure		
Teehdpe	0130500402	Houkled HDPE Equal Tee OD200MM	SDR 11 Mat-PE100 Pressure		
Teehdpe	0130500403	Houkled HDPE Equal Tee OD250MM	SDR 11 Mat-PE100 Pressure		
TeeHDPE	0130500500	Fabricated HDPE equal TeeOD75m	SDR -11 Material PE160mm press		
TeeHDPE	0130500501	Fabricated HDPEequal T OD125mm	SDR -11 Material PE80 PN 12.5		
TeeHDPE	0130500502	Fabricated HDPEequal T OD200mm	SDR -11 Material PE80 PN 12.5		
TeeHDPE	0130500503	Fabricated HDPEequal T OD250mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500600	Seamless HDPE bend 90D 125mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500601	Seamless HDPE bend 90D 160mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500602	Seamless HDPE bend 90D 200mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500603	Seamless HDPE bend 90D 250mm	SDR -11 Material PE80 PN 12.5		
Moulded HDPE bend 90D 125mm	0130500700	Moulded HDPE bend 90D 125mm	SDR -11 Material PE100 PN 16		
Bendhdpe	0130500701	Moulded HDPE bend 90D 160mm	SDR -11 Material PE100 PN 12.5		
Bendhdpe	0130500702	Moulded HDPE bend 90D 200mm	SDR -11 Material PE100 PN 12.5		
Bendhdpe	0130500703	Moulded HDPE bend 90D 250mm	SDR -11 Material PE100 PN 12.5		
Segmented HDPE Bend					
Bendhdpe	0130500800	Segmented HDPEBend45D OD125mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500801	Segmented HDPEBend45D OD160mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500802	Segmented HDPEBend45D OD200mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500803	Segmented HDPEBend45D OD250mm	SDR -11 Material PE80 PN 12.5		
Segmented HDPEBend90					
Bendhdpe	0130500900	Segmented HDPEBend90D OD125mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500901	Segmented HDPEBend90D OD160mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500902	Segmented HDPEBend90D OD200mm	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500903	Segmented HDPEBend90D OD250mm	SDR -11 Material PE80 PN 12.5		
HDPE CON REDUCER					
Reducerhdpe	0140600272	HDPE CON REDUCER 125MM X 110MM	SDR -11 Material PE100 PN 12.5		
Reducerhdpe	0140600273	HDPE CON REDUCER 140MM X 125MM	SDR -11 Material PE100 PN 12.5		
Reducerhdpe	0140600274	HDPE CON REDUCER 200MM X 180MM	SDR -11 Material PE100 PN 12.5		
Reducerhdpe	0140600275	HDPE CON REDUCER 225MM X 200MM	SDR -11 Material PE100 PN 12.5		
Reducerhdpe	0140600276	HDPE CON REDUCER 400MM X 315MM	SDR -11 Material PE100 PN 12.5		
Reducerhdpe	0140600277	HDPE CON REDUCER 400MM X 355MM	SDR -11 Material PE100 PN 12.5		
Reducerhdpe	0140600278	HDPE CON REDUCER 450MM X 400MM	SDR -11 Material PE100 PN 12.5		
SEAMLESS HDPE BEND					
Bendhdpe	0130500350	SEAMLESS HDPE BEND OD125 MM	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500351	SEAMLESS HDPE BEND OD160 MM	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500352	SEAMLESS HDPE BEND OD200MM	SDR -11 Material PE80 PN 12.5		
Bendhdpe	0130500353	SEAMLESS HDPE BEND OD250MM	SDR -11 Material PE80 PN 12.5		
HDPE Lateral					
Lateralhdpe	0140600312	Fabricat HDPE Lateral OD125mm	SDR -11 Material PE80 PN 12.5		
Lateralhdpe	0140600313	Fabricat HDPE Lateral OD160mm	SDR -11 Material PE80 PN 12.5		
Lateralhdpe	0140600314	Fabricat HDPE Lateral OD200mm	SDR -11 Material PE80 PN 12.5		
Lateralhdpe	0140600315	Fabricat HDPE Lateral OD250mm	SDR -11 Material PE80 PN 12.5		
HDPE COUPLER					
Couplerhdpe	0140600316	HDPE COUPLER OD125MM	SDR -11 Material PE100 PN 16		
Couplerhdpe	0140600317	HDPE COUPLER OD160MM	SDR -11 Material PE100 PN 16		
Couplerhdpe	0140600318	HDPE COUPLER OD200MM	SDR -11 Material PE100 PN 16		
Couplerhdpe	0140600319	HDPE COUPLER OD250MM	SDR -11 Material PE100 PN 16		
HDPE Butt weld join					
Butt join hdpe	0130500360	HDPE Butt weld join OD125MM	SDR -11 Material PE100 PN 16		
Butt join hdpe	0130500361	HDPE Butt weld join OD160MM	SDR -11 Material PE100 PN 16		
Butt join hdpe	0130500362	HDPE Butt weld join OD200MM	SDR -11 Material PE100 PN 16		
Butt join hdpe	0130500363	HDPE Butt weld join OD250MM	SDR -11 Material PE100 PN 16		

HDPE stub for pipe				
HDPE stub	0140600280	HDPE stub for pipe OD 125MM	SDR-11MAT-PE100 Rating PN 16	
HDPE stub	0140600281	HDPE stub for pipe OD 160 MM	SDR-11MAT-PE100 Rating PN 16	
HDPE stub	0140600282	HDPE stub for pipe OD 200 MM	SDR-11MAT-PE100 Rating PN 16	
HDPE stub	0140600283	HDPE stub for pipe OD 250 MM	SDR-11MAT-PE100 Rating PN 16	
HDPE PIPE SABS ISO 4427-				
HDPE PIPE	0130500370	HDPE PIPE SABS ISO 4427-	OD 125 MM PE100 PN16 SDR 11	
HDPE PIPE	0130500371	HDPE PIPE SABS ISO 4427-	OD 160 MM PE100 PN16 SDR 11	
HDPE PIPE	0130500372	HDPE PIPE SABS ISO 4427-	OD 200 MM PE100 PN16 SDR 11	
HDPE PIPE	0130500373	HDPE PIPE SABS ISO 4427-	OD 250 MM PE100 PN16 SDR 11	
HDPE MOULDED T-PIECE				
HDPE MOULDED T-PIECE	0130500374	HDPE MOULDED T-PIECE/ PE100 PN	OD 125 MM PE100 PN16 SDR 11	
HDPE MOULDED T-PIECE	0130500375	HDPE MOULDED T-PIECE/ PE100 PN	OD 160 MM PE100 PN16 SDR 11	
HDPE MOULDED T-PIECE	0130500376	HDPE MOULDED T-PIECE/ PE100 PN	OD 200 MM PE100 PN16 SDR 11	
HDPE MOULDED T-PIECE	0130500377	HDPE MOULDED T-PIECE/ PE100 PN	OD 250 MM PE100 PN16 SDR 11	
HDPE FABRICATED T-PIECE				
HDPE FABRICATED T-PIECE	0130500378	HDPE FABRICATED T-PIECE/ PE100	OD 125MM PE100 PN16 SDR 11	
HDPE FABRICATED T-PIECE	0130500379	HDPE FABRICATED T-PIECE/ PE100	OD 160MM PE100 PN16 SDR 11	
HDPE FABRICATED T-PIECE	0130500380	HDPE FABRICATED T-PIECE/ PE100	OD 200MM PE100 PN16 SDR 11	
HDPE FABRICATED T-PIECE	0130500381	HDPE FABRICATED T-PIECE/ PE100	OD 250MM PE100 PN16 SDR 11	
HDPE SEAMLESS 90 BEND				
HDPE SEAMLESS 90 BEND	0130500382	HDPE SEAMLESS 90 BEND/ PE100PN1	OD 125MM PE100 PN16 SDR 11LON	
HDPE SEAMLESS 90 BEND	0130500383	HDPE SEAMLESS 90 BEND/ PE100PN1	OD 160MM PE100 PN16 SDR 11LON	
HDPE SEAMLESS 90 BEND	0130500384	HDPE SEAMLESS 90 BEND/ PE100PN1	OD 200MM PE100 PN16 SDR 11LON	
HDPE SEAMLESS 90 BEND	0130500385	HDPE SEAMLESS 90 BEND/ PE100PN1	OD 250MM PE100 PN16 SDR 11LON	
HDPE MOULDED 90 BEND				
HDPE MOULDED 90 BEND	0130500386	HDPE MOULDED 90 BEND/ PE100PN16	OD 125MM PE100 PN16 SDR 11	
HDPE MOULDED 90 BEND	0130500387	HDPE MOULDED 90 BEND/ PE100PN16	OD 160MM PE100 PN16 SDR 11	
HDPE MOULDED 90 BEND	0130500388	HDPE MOULDED 90 BEND/ PE100PN16	OD 200MM PE100 PN16 SDR 11	
HDPE MOULDED 90 BEND	0130500389	HDPE MOULDED 90 BEND/ PE100PN16	OD 250MM PE100 PN16 SDR 11	
HDPE SEGMENTED 45D & 60D BEND				
HDPE SEGMENTED 45D BEND	0130500390	HDPE SEGMENTED 45D & 60D BE	OD 125MM PE100 PN16 SDR 11	
HDPE SEGMENTED 45D&60D BEND	0130500391	HDPE SEGMENTED 45D & 60D BE	OD 160MM PE100 PN16 SDR 11	
HDPE SEGMENTED 45D&60D BEND	0130500392	HDPE SEGMENTED 45D & 60D BE	OD 200MM PE100 PN16 SDR 11	
HDPE SEGMENTED 45D&60D BEND	0130500393	HDPE SEGMENTED 45D & 60D BE	OD 250MM PE100 PN16 SDR 11	
HDPE SEGMENTED 90D BEND	0130500394	HDPE SEGMENTED 90D BEND (PE100	OD 125MM PE100 PN16 SDR 11	
HDPE SEGMENTED 90D BEND	0130500395	HDPE SEGMENTED 90D BEND (PE100	OD 160MM PE100 PN16 SDR 11	
HDPE SEGMENTED 90D BEND	0130500396	HDPE SEGMENTED 90D BEND (PE100	OD 200MM PE100 PN16 SDR 11	
HDPE SEGMENTED 90D BEND	0130500397	HDPE SEGMENTED 90D BEND (PE100	OD 250MM PE100 PN16 SDR 11	
HDPE CONCENTRIC REDUCER				
HDPE CONCENTRIC REDUCER	0140600284	HDPE CONCENTRIC REDUCER (PE100	OD 125MM >75MM PE100 PN16 SD	
HDPE CONCENTRIC REDUCER	0140600285	HDPE CONCENTRIC REDUCER (PE100	OD 125MM >90MM PE100 PN16 SD	
HDPE CONCENTRIC REDUCER	0140600286	HDPE CONCENTRIC REDUCER (PE100	OD 125MM >110MM PE100 PN16 SD	
HDPE CONCENTRIC REDUCER	0140600287	HDPE CONCENTRIC REDUCER (PE100	OD 140MM >125MM PE100 PN16 SDR	
HDPE CONCENTRIC REDUCER	0140600288	HDPE CONCENTRIC REDUCER PE100	OD 160MM > 110MM SDR11	
HDPE CONCENTRIC REDUCER	0140600289	HDPE CONCENTRIC REDUCER PE100	OD 160MM > 125MM SDR11	
HDPE CONCENTRIC REDUCER	0140600290	HDPE CONCENTRIC REDUCER PE100	OD 160MM > 125MM SDR11	
HDPE CONCENTRIC REDUCER	0140600350	HDPE CONCENTRIC REDUCER PE100	OD 180MM > 160MM SDR11	
HDPE CONCENTRIC REDUCER	0140600351	HDPE CONCENTRIC REDUCER PE100	OD 200MM > 160MM SDR11	
HDPE CONCENTRIC REDUCER	0140600352	HDPE CONCENTRIC REDUCER PE100	OD 200MM > 180MM SDR11	
HDPE CONCENTRIC REDUCER	0140600353	HDPE CONCENTRIC REDUCER PE100	OD 225MM > 160MM SDR11	
HDPE CONCENTRIC REDUCER	0140600354	HDPE CONCENTRIC REDUCER PE100	OD 225MM > 200MM SDR11	
HDPE CONCENTRIC REDUCER	0140600355	HDPE CONCENTRIC REDUCER PE100	OD 250MM > 200MM SDR11	
HDPE CONCENTRIC REDUCER	0140600356	HDPE CONCENTRIC REDUCER PE100	OD 250MM > 225MM SDR11	
HDPE CONCENTRIC REDUCER	0140600357	HDPE CONCENTRIC REDUCER PE100	OD 280MM > 250MM SDR11	
HDPE CONCENTRIC REDUCER	0140600358	HDPE CONCENTRIC REDUCER PE100	OD 315MM > 250MM SDR11	
HDPE FABRICATED LATERAL (PE100)				
HDPE FABRICATED LATERAL	0140600359	HDPE FABRICATED LATERAL (PE100	OD 125MM SDR11	
HDPE FABRICATED LATERAL	0140600360	HDPE FABRICATED LATERAL (PE100	OD 160MM SDR11	
HDPE FABRICATED LATERAL	0140600361	HDPE FABRICATED LATERAL (PE100	OD 200MM SDR11	
HDPE FABRICATED LATERAL	0140600362	HDPE FABRICATED LATERAL (PE100	OD 250MM SDR11	
HDPE ELECTROFUSION COUPLER				
HDPE ELECTROFUSION COUPLER	0140600363	HDPE ELECTROFUSION COUPLER (PE	OD 125MM SDR11 PN16	
HDPE ELECTROFUSION COUPLER	0140600364	HDPE ELECTROFUSION COUPLER (PE	OD 160MM SDR11 PN16	
HDPE ELECTROFUSION COUPLER	0140600365	HDPE ELECTROFUSION COUPLER (PE	OD 200MM SDR11 PN16	
HDPE ELECTROFUSION COUPLER	0140600366	HDPE ELECTROFUSION COUPLER (PE	OD 250MM SDR11 PN16	

Section D: TECHNICAL EVALUATION CRITERIA

D.1 Technical Evaluation Criteria for this Tender which excludes Commercial Evaluation:

No.	Mandatory Requirement
1	Schedule of Similar contract undertaken
2	Cost Breakdown of the works as per cost schedule
3	Method Statement (adhere to scope of work)
4	Quality Control Plan (QCP)
5	Work Methodology

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
1	Mandatory - Compliance with Scope of Work Specifications - Weight not to be less than 20% Provide all required			
a)	Submission of tender documentation as mentioned on Section A.4.3 of scope document. Scoring: If all required documents are not submitted = 0%; If all submitted =20%	20%	documents as a proof.	
2	Reliability - Supplier reliability to complete the project safely in time, quality and budget - Weight not to be less than 60%			
a)	Suitability of work methodology in line with safe working procedure.	20%	Provide work methodology.	

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Provide Quality

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	Scoring: non-provision and submission of work methodology = 0%; provision and submission of provision of work methodology = 20%			
b)	Suitability of Quality Control Plan (QCP). Scoring: If the QCP is not submitted = 0%; If the QCP is submitted = 20%	20%		
c)	Provide a letter in writing to accept & abide by the requirements listed under quality control in section C.10.1 Scoring: No letter in writing = 0%; letter in writing = 20%	20%	Provide letter in writing.	
3	Competence - Supplier experience & team competence - Weight not to be less than 20%			
a)	Supplier previous experience in similar work, environment, magnitude, and complexity. (The last date of experience must be within a period of 2 years)	20%	Provide record of previous similar experience as per B.4 format	

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	Scoring: Experience < 2 years = 0% 2 years ≤ Experience < 5 years = 10% Experience ≥ 5 years = 20%		mentioned in the scope of work.	
	Total Technical Score	100%		
Note: Disqualifying Criteria - The bidder needs to score 70% and above, - Mandatory documentation not submitted. - Incomplete priced Bill of Quantities (e.g. omission of unit rate/price etc.)				

THE END OF THE SCOPE OF WORK

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