



MAGAMPURA PORT MANAGEMENT COMPANY (PVT) LTD

"Sayurupaya", Mirijjawila, Hambantota, Sri Lanka.

Web-WWW.mpmc.lk, E-Mail-Procurement@mpmc.lk

Vat Reg. No: 174934150-7000

Telephone no : (+94)472258130 Fax-(+94) 472258119

PROCUREMENT NOTICE

INVITATION FOR THE BIDS FOR SUPPLYING, INSTALLATION AND TESTING OF 95 mm² 33Kv 3C COPPER UNDERGROUND ARMoured POWER CABLE & CABLE TERMINATION KITS AT TANK FARM IN HAMBANTOTA PORT

Ref No: SD/01/17/SE/03 (TAF)

Inquiry Date: 03-10-2017

Supplier Code:N/A

Supplier Name:

Address:

.....

Telephone No:

Phone /Mobile:

MPMC Attend to: Mr. Mahesh

E-mail: procurement@mpmc.lk

Mobile No : 0713377808

Fax : 0472258119

QUOTE REQUEST

Our Company intends to purchase the following services. Please quote your best competitive price.

1. Please complete all the information to avoid being demand as an invalid offer.
2. Are you VAT registered company? (YES/NO) If yes, VAT No:.....
3. The supplier's quotation must include the above provided reference number.
4. Suppliers are required to complete a pre site visit in order to identify requirement.
5. A non-refundable fee of Rs. 2,000/= should be paid by a Bank Draft. The Bank Draft should be drawn in favor of **"Magampura Port Management Company (Pvt.) Ltd"** with the validity of **60 days** and it should be accompanied with the application. **Cheques and Money Orders will not be accepted.**
6. All bids should accompany a bid security of Rs 60,000/= (Sixty thousand only) obtained from any **recognized commercial Bank in Sri Lanka** addressed to the **Managing Director, Magampura Port Management Company(pvt) Ltd, Hambantota** which should valid up to 26/12/2017.



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COMPANY REQUIREMENTS

1. Supply of 95mm² 33kV 3C XLPE under armoured power cable 180m length
2. Supply of one indoor and one out door termination kit for the above cable
3. Laying of power cable (including the excavation of trench, back filling etc), end termination as per standard.
4. Testing of the cable and issuing the Chartered Engineers report.

SPECIFICATIONS & SCOPE

1. SPECIFICATIONS FOR 33KV 3 CORE 95MM² COPPER OUTDOOR UNDERGROUND POWER CABLE

Design, manufacture, shop testing, packing and delivery of 33 kV, multi core, cross linked polyethylene insulated power cables to the Magampura Port Management Company Private Limited, Tank Farm, Hambantota. These cables shall be suitable for the 3 phase AC-50 Hz system with the nominal voltage of 33 kV which may reach maximum of 36 kV. These cables shall primarily be designed for effectively earthed neutral system. The cable conforming to BS 6622, 19 /33 (36) kV voltage designation shall be offered.

- **SYSTEM PARAMETERS:**

Nominal voltage (U)	33 kV
System highest voltage (Um)	36 kV
System frequency	50 Hz
Method of earthing	Non Effectively earthed
System faults level	13.1 kA
Fault duration	1s



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- **SERVICE CONDITIONS:**

Annual average ambient temperature	30 °C
Maximum ambient temperature	40 °C
Maximum relative humidity	90%
Environmental conditions	Humid tropical climate with heavily polluted atmosphere
Operational altitude	From M.S.L. to 1900 m above M.S.L.
Isokeruanic (Thunder days) level	100 days
Depth of laying	1.1 m

- **STANDARDS:**

The equipment and components supplied shall be in accordance with the latest editions of the standards specified below and amendments thereof.

BS 6622:2007	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV. Requirements and test methods
IEC 60502-2:2014	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 2: Cables for rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)
IEC 60840:2011	Power cables with extruded insulation and their accessories for rated voltages above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV) – Test methods and requirements
BS EN/IEC 60228:2004	Conductors of insulated cables



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BS EN/IEC 60811-201, 202,203,501:2012

Electric and optical fibre cables - Test methods for non-metallic materials - Part 201: General tests - Measurement of insulation thickness, Part 202: General tests - Measurement of thickness of non-metallic sheath, Part 203: General tests - Measurement of overall dimensions, Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds

BS EN/IEC 60229 : 2007

Electric cables - Tests on extruded oversheaths with a special protective function

- Conductor

The resistance of each conductor at 20°C shall be in accordance with BS EN / IEC 60228 standard. Material of the conductor shall be Circular Compacted Plain Annealed Copper of class 2. Material and size of the conductor shall be as stipulated in the Schedule of Technical Requirements and Guaranteed Technical Particulars.

- Conductor screen

Conductor screen shall be of Extruded Semi-conducting Compound type. The extruded layer shall be continuous and shall cover the surface of the conductor completely. The conductor screen shall be applied in the same operation as the insulation and shall be fully bonded to the insulation. The volume resistivity of the conductor screen shall not exceed 500 $\Omega \cdot m$ at 90 °C when measured in accordance with Annex J of BS 6622. The thickness of the conductor screen shall be in accordance with BS 6622.

- Insulation

The insulation shall be XLPE and shall be applied by extrusion and cross-linked to form a compact and homogeneous layer in accordance with the Standards specified. The thickness of insulation shall conform to the BS 6622.

- Insulation screen

Insulation screen shall consist of non-metallic semi-conducting layer in combination with a metallic layer. Non-metallic semi-conducting layer shall be extruded in the same operation as the insulation. The extruded layer shall be continuous and shall cover the surface of the insulation completely. The insulation screen shall be cold strippable. The thickness of the insulation screen shall be in accordance with BS 6622. Note: The conductor screen, the insulation and the non-metallic insulation screen shall be extruded simultaneously in a single-head triple extrusion process.



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- Laying Up

The Cores shall be layed-up with a right hand direction of lay.

- Inner covering and fillers

Inner covering shall be extruded or lapped materials suitable for the operating temperature of the cable and compatible with the insulating materials. Conditions of cable being buried direct in ground in sustained wet conditions should be considered. The inner covering and fillers shall be in accordance with BS 6622.

- Metallic screen

Each core shall be covered with a Copper wire screen complying to BS 6622. The cross sectional area of the metallic screen shall be able to withstand the specified fault current & duration in accordance with clause 6. The metallic wires shall be spaced with a mean gap width not greater than 4mm. No gap shall exceed 8mm.

- Longitudinal water barrier

Water barrier swelling tape or powder shall be provided to protect against longitudinal water penetration.

- Metallic sheath

A metallic sheath shall be provided if specified in „Annex - B: Schedule of Technical Requirements and Guaranteed Technical Particulars“. Lead alloy sheath, which shall be free from defects, shall be provided over an inner covering, in accordance with IEC 60502-2. The inner covering shall be in accordance with clause 5.6 above.

- Metallic Armour

The armour shall be Galvanized Steel and shall consist of round wires. Metallic armour shall have an inner covering conforming to BS 6622. The nominal diameter of the armour wires shall be in accordance with BS 6622.

- Oversheath

The oversheath shall be of PVC-ST2 and shall be suitable for the maximum operating temperature in accordance with clause 6. The colour of the oversheath shall be black or as specified in „Annex - B: Schedule of Technical Requirements and Guaranteed Technical Particulars“. The mean value of the thickness shall not be



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less than the specified values in BS 6622 and compliance shall be checked by carrying out tests given in the BS6622. The over sheath shall withstand the DC voltage test in accordance with BS 6622. This test shall be carried out on each delivery lengths.

- Graphite Coating

A coating of Graphite shall be applied over the over sheath to carry out D.C. Voltage Test.

- TECHNICAL REQUIREMENTS

Rated Voltage	33 kV
System Highest Voltage	36 kV
Maximum Fault Current and Duration	13.1 kA, 1s
Basic Insulation Level (BIL)	170 kV
Maximum Normal Operating Temperature	90 °C
Depth of Laying	1.1 m
Maximum Design Stress	5 kV/mm
Insulation Medium	XLPE

- QUALITY ASSURANCE

The manufacturer shall possess ISO 9001:2008 Quality Assurance Certification valid throughout the delivery period of this bid, for the manufacture of XLPE Insulated Underground Cables for the plant where manufacturing is being done. The Bidder shall furnish a copy of the ISO certificate certified as true copy of the original by the manufacturer, along with the offer.



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- **Manufacturing Experience**

The manufacturer shall have minimum of 10 years experience in manufacturing XLPE Insulated Underground Cables. In addition, minimum of five (5) years experience shall be in manufacturing for orders from outside the country of the manufacturer. The product offered has to be in same or higher voltage range of offered item and shall have been used in service utilities over past 5 years.

Manufacturer shall furnish a list of purchasers with year and quantity of the product offered with the offer to prove his manufacturing experience.

- **Technical Literature**

Adequate consideration shall have been given in the design of the cable and in the manufacturing process on the following.

(a) Maximum design electrical stress shall be such that purity of raw materials, manufacturing conditions and ageing of cables have been taken into account. Maximum design stress shall not be more than 5kV/mm.

(b) Purity of raw materials.

(c) Close control of extrusion process to achieve smooth extruded surfaces, homogeneous extrudates and prevention of void formations.

Documentary evidence on the above shall be provided along with the offer.

- **INSPECTION AND TESTING**

Type Test

It is mandatory to provide Type Test certificates conforming to the requirements stipulated either in Section G.3 of Annex G of BS6622 (as denoted in 9.1.1 below) or in Section 14 of IEC 60840.

For cable conforming to BS 6622 standard

- i. Conductor Screen Resistivity
- ii. Insulation Material
- iii. Insulation Screen Resistivity



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- iv. Insulator Screen Cold Strippability
- v. Semi-conducting Lapped Inner covering Resistance
- vi. Separation Sheath Material
- vii. Tests on Armour
- viii. Tests on Over Sheath Material
- ix. Compatibility Test
- x. Test under Fire Conditions
- xi. Partial Discharge Test
- xii. Bending Test
- xiii. Tan δ in Relation to Voltage
- xiv. Tan δ in Relation to Temperature
- xv. Heating Cycle Test
- xvi. Impulse Voltage Test
- xvii. Four-hour Voltage Test
- xviii. Adherence of screens at short circuit temperature

For cable conforming to IEC 60840 standard

- i. Bending test followed by installation of the test terminations and a partial discharge test
- ii. Tan δ measurement
- iii. Heating cycle voltage test, followed by a partial discharge measurement at ambient temperature, which shall be carried out after the final cycle or alternatively, after the lightning impulse voltage test



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- iv. Lighting impulse voltage test, followed by a power frequency voltage test
- v. Partial discharge test
- vi. Examination of the cable on completion of the above tests
- vii. The resistivity of the semi-conducting screen shall be measured on a separate sample.
- viii. Check of cable construction
- ix. Test for determining the mechanical properties of insulation before and after ageing
- x. Tests for determining the mechanical properties of oversheath before and after ageing
- xi. Ageing test on piece of complete cable to check compatibility of materials
- xii. Loss of mass test on PVC sheaths of type ST2
- xiii. Pressure test at high temperature on oversheaths
- xiv. Test on PVC oversheaths at low temperatures
- xv. Heat shock test for PVC oversheaths
- xvi. Test under fire conditions
- xvii. Water penetration test
- xviii. Shrinkage test for XLPE insulations

Type Test Certificates should clearly indicate the relevant standard, Items concerned, showing the manufacturers identity, type No. /catalogue No. and basic technical parameters.

Test certificates referred to shall be from an **accredited independent testing laboratory acceptable to the purchaser**. Proof of accreditation by a national/international authority shall be forwarded with the offer. Test reports shall be complete including all the pages as issued by the testing authority. Type test reports shall be in English language. Parts of test reports shall not be acceptable.



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- **INFORMATION TO BE FURNISHED WITH THE OFFER**

The following shall be furnished with the offer.

- a. A comprehensive catalogue on the types and sizes of XLPE Insulated Underground Cables offered. It shall necessarily include details about construction of the cable, mechanical properties and electrical properties of the cable (And material used).
- b. Type Test Certificates
- c. Duly filled and signed Guaranteed Schedule.
- d. Documents to prove manufacturer's experience.
- e. ISO 9001:2008 Quality Assurance Certificate.
- f. Overall dimensional drawings.
- g. A dimensional drawing of the drum.

Failure to furnish the above information will result in the offer being rejected.



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2. SPECIFICATIONS FOR 33KV 3 CORE 95MM² INDOOR AND OUTDOOR TERMINATION KIT

This specification covers design, manufacture and testing of heat shrinkable components suitable for use in medium voltage and low voltage cable joints and terminations for indoor and outdoor applications.

• **SYSTEM PARAMETERS**

Nominal Operation Voltage	33kV
System Highest Voltage	36kV
Frequency	50 Hz
Number of phases	3
Type of earthing	Non-effect-
Symmetrical fault level	13.1 kA

• **SERVICE CONDITIONS**

Maximum Ambient Temperature	40°C
Maximum annual average temperature	30°C
Maximum relative humidity	90%
Environmental conditions	Humid tropical climate With polluted atmosphere
Operational Altitude	for use of below 1000m height from mean seal level
Average ground temperature	30°C



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- APPLICABLE STANDARDS

The equipment and components supplied shall be in accordance with the latest editions/amendments of the standards specified below.

IEC 60/1 & 2 (1973)	High voltage Test Techniques
IEC 71/1 & 2 (1976)	Insulation Co-ordination
IEC 260 (1968)	Partial discharge measurements
IEC 507 (1975)	Artificial pollution test on H.V. Insulators to be used on A.C. systems.
IEC 243 (1967)	Test for electric strength of solid Insulation materials.
IEC 112 (1979)	Comparative and the protect tracking indices of solid insulating materials under moist conditions (600 V)
IEC 466 Appendix-C	Condensation Test
E.S.I. 09-13 (1981)	Performance Specifications for high voltage Heat Shrinkable components for use with high voltage solid type cables up to 33,000 volts
E.S.I. 09-11	Heat Shrinkable Insulating Materials for use with 600V/1000V Cables and accessories
VDE 0278	Power cable accessories with rated voltage upto 30kV
ASTM D2303	Inclined Plane Tracking and Erosion Resistance Test
ISO 9001	Quality systems - Model for quality assurance in design/development, production, installation and servicing

The components specified shall be used with the cables manufactured to the following Standards.

B.S. 6622 (1985)	Cables with extruded XLPE for rated voltages, IEC 502 (1978) 3800/6600 and upto 19000/33000V
BS 6480 (1969)	Paper insulated cables c) BS 6346 (1969) PVC Cables

- Design

- a) Adequate consideration shall be given in the design of terminations, straight through joints and transition joints in respect of the following (Documentary evidence shall be furnished along with the tender).



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- b) Adequate stress relief at the screen cut back in case of screened cables (33kV PILC) and in the crutch region in case of belted cables.
 - c) Reinstatement of primary insulation with a co-extruded bonded screen to the primary insulation (for joints).
 - d) Prevention of corrosion and sealing against ingress of moisture.
 - e) Provision of excellent electrical earth continuity across the straight through joints.
 - f) Non tracking, erosion and weather resistant performance for termination.
 - g) Proper earthing of screen/armour at the termination.
 - h) Sockets/Ferrules to be suitable for proper connection of conductors as detailed below.
 - i) Compatibility of component materials.
 - j) (Ensuring that proper clearances are maintained between cores and between each core and earthed parts.
 - k) Toxicity of compound.
 - l) Adequate shelf life (minimum 2 years).
- Ability to withstand load & Short Circuit Conditions

The ability to withstand electrical and mechanical stress that occur under normal, emergency and short circuit conditions, in the cable joints and the terminations shall not be less than that of the cable.

- Electrical Stress Relief

Electrical Stress Control for the cable insulation screen in terminations and joints shall be achieved by means of a heat shrinkable tubing having a defined impedance characteristic, volume resistivity and dielectric constant stable over time, in spite of variation in electrical stress, and changes in temperature, when measured in accordance with IEC 93 and IEC 250.



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Electrical Stress relief shall be adequate enough so as to withstand voltages at twice the rated phase voltage to earth which shall be proved by partial discharge testing. Partial Discharge measured at twice the rated voltage shall be less than 20pC. The materials shall withstand the maximum permissible overload temperature of the cable concerned, thermal ageing and stress variations. The bidder shall submit test data on the effects of temperature variation and thermal ageing on the impedance of the stress control tubing. In addition to the heat shrinkable stress control tubing some form of stress relief material shall be provided which shall fill up voids and force air out of critical regions in the screen cutback area to prevent discharge. In case of joints & terminations of belted cables (viz. PILC) the Crutch region shall be completely filled with a stress relieving high permittivity oil resistant material to ensure discharge free operation during service.

- Reinstatement of Primary Insulation (Joints)

A systematic build up of insulation shall be provided to reinstate the primary insulation. This shall be by means of a heat shrinkable tube made from a discharge resistant polymer. For 11kV and 33kV joints, additional insulation and reinstatement of the outer semiconducting screening whenever necessary shall be by dual wall co-extruded heat shrinkable tubing which comprises of an inner layer of insulation material and an outer layer of conductive polymer. The metallic shield continuity over the joint core shall be reinstated by means of a fine mesh of tinned copper.

- Mechanical strength, armour continuity and sealing (Joints)

In case of straight through joints steps shall be taken to restore the mechanical strength over the joints. The material used shall be of Stainless Steel and the design shall be of light weight, impact resistant and capable of wrapping around over the complete length of the joint. Heat shrinkable sleeves and filling materials to provide outer sealing against ingress of moisture and corrosion shall be provided and included in the kits for joints and terminations.

- Types of Joints and Termination

The Termination Kits and Jointing Kits for the following shall be complete with all necessary components required for a complete Joint.

- a. Indoor cable terminations suitable for XLPE U.G. Cables.
- b. Outdoor cable terminations suitable for XLPE U.G. Cables.

The components in contact with impregnating oil in the paper insulated cables shall be of oil resisting material. In the case of Straight Through Joints and Transition Joints they shall included ferrules with **Shear Head Bolts of removable type**, suitable for the cables indicated in the schedule of prices. The completed



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Straight through Joints and In-line Transition Joints shall be designed to be used directly buried in ground and in water logged conditions. These joints enclosures shall have sufficient space which permit crossed core jointing. Terminations shall have a minimum core length (trifurcation of cable to lug) as follows.

- Indoor 36kV terminations : 650 mm
- Outdoor 36kV terminations : 1200 mm

● **INFORMATION TO BE SUPPLIED WITH THE OFFER**

Detailed documentary evidence in support of conformity of various materials and components to specified standards shall be furnished. The information shall include the following.

- Step by step instruction procedures supported with illustrated drawings.
- List of materials indicating quantities in each kit Names of the manufacturers whose components are included in the kits shall be indicated.
- Time required for carrying out a complete joint or termination.
- Performance Test Certificates as per the test sequence referred below. Names of the manufacturers whose components were in the joints/terminations which were tested must be submitted.
- Type approval and quality assurance test certificates for sealants shall accompany the Tender.
- Natural weathering data on the materials offered. This shall be based on field data

Accelerated weathering test certificates on the materials offered. This test performance shall include the following parameters and describe their variation.

- Relative humidity
- Temperature variation
- Contaminant concentration
- Programme of 24 hour cycle describing UV exposure; light and water spray and darkness
- Per year equivalence of weather ohm meter hours

The test certificates shall include the graphical illustrations of variations of elongation and electrical strength with ageing.

- Total creepage distance and protected creepage distance provided in the termination.
- Minimum tail lengths for indoor and outdoor terminations



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Type Test Certificate of the following test

- Power Frequency Withstand Voltage test - As per IEC 60
- Impulse Withstand Voltage test - As per IEC 60
- Partial discharge test - As per IEC 270 d) Tracking and Erosion resistance test - As per ASTM D2303 e) Load cycle test - As per VDE 0278/IEC 24

Quality Control/Assurance Standards: Bidders shall submit evidence of approval of their manufacturing operation against ISO 9001 standard.

The test certificates referred to shall be issued from recognized independent testing authority acceptable to the CEB. Manufacturers who have not previously supplied the joints and terminations which are quoted to CEB shall submit a list of electrical utilities which are using the quoted joints and terminations.

Failure to furnish the particulars requested will result in the offer being rejected.



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PAYMENT DETAILS OF GOODS & SERVICES

#	Description of Goods & Services	Amount (LKR)	Discount	NBT(2%)	VAT(15%)	Total
1.	Supply of 95mm ² 33kV 3C Copper XLPE under armoured power cable 180m length					
2.	I. Supply of one no of indoor Cable termination Kit for the above cable					
	II. Supply of one no of outdoor Cable termination Kit for the above cable					
3.	Laying, Installation of power cable (including the excavation of trench, back filling etc.), and end termination (both ends)					
4.	Testing of the above cable after installation and termination, issuing of the Chartered engineer certificate valid in sir Lanka					
Grand Total						

OTHER CHARGES (SEE CONDITIONS & INSTRUCTIONS)

.....

.....
Signature & Stamp of Supplier



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CONDITIONS & INSTRUCTIONS

1. Currency: LKR
2. The above quotation shall include the Total cost, Freight, Validity, Insurance charges, Payment terms, Tax, Provide delivery to MPMC.
3. Payment term: Credit 60 days or more
4. Quotations should be valid for a period of 60 days.
5. The Successful bidder should submit a performance Bond Guarantee for a 7% of the contract sum from any Commercial Bank of Sri Lanka (Insurance bond will not be accepted) in the name of the **Managing Director, Magampura Port Management Company(pvt) Ltd, Hambantota** valid for a period of 13months.
6. The successful bidder will have to entered in to an agreement with the **MPMC Tank Farm Division**.
7. In the event, the contractor fails to supply the service or in breach of any of the terms and condition herein stated, the **Magampura Port Management Company(pvt) Ltd** reserve the right to encash the bid security / performance bond without any notice to the contractor.
8. The bidder shall provide documental proof that previously completed similar works to assure the ability of work.
9. The bidder shall submit the certificate of incorporation / business registration.
10. For any per the technical clarification, bidder can contact : **Mr. Priyankara (AGM- T/F) on T.P:0717600335**

FORWARDING THE QUOTATION /PROPOSAL

The duly completed sealed bids/quotations on prescribed specifications should be sent under Registered Cover to reach the **Manager Supplies, Supplies Division, 7th Floor, Sayurupaya, Mirijjawila, Hambantota** or put into Procurement box (Monday to Friday from 8.30am to 4.30pm on normal working days) at Supplies Division after sealed & date stamp.

The completed sealed bid/quotation will be received up to **2.00pm on 24/10/2017** and will be opened from the same day at **2.30pm** in the Supplies Division of MPMC.

Procurement Committee reserves the right to reject any part or full bid/quotation without assigning any reason. Preference will be given to qualified applicants.

Please compose on the top left hand corner of the envelope as "SD/01/17/SE/03 (TAF)". Incomplete bids/quotations without supporting documents and bids/quotations received after the closing date & time will not be considered.

CHAIRMAN