

Notice Inviting Tender For Supply of Power and Control Cable at Milan Mela Complex, Kolkata

West Bengal Trade Promotion Organization



www.wbtpo.in

Date: 26.06.2014

NIQ Ref No: WBTPO/Requirement of Additional Transformer/119/14-15/61

WEST BENGAL TRADE PROMOTION ORGANIZATION

Quotations are invited from reputed Companies having long experience in the field of Supplying LT Power and Control Cable for supply of the followings :

- a. *LT Power Cable (XLPE insulated, Aluminum conductor, 3.5 core, 300mm²)
- 190 Meter.*
- b. *LT Control Cable (PVC insulated, Copper conductor, 7 core, 2.5mm²)
- 50 Meter.*

Interested parties may download further details from WBTPO websites www.wbidc.in and www.wbtpo.com on and after **26/06/2014**.

The Companies having experience of supplying similar items may submit their offers as per details provided in Tender Document within **07/07/2014** before 03:00 PM at WBTPO, Milan Mela, 3 JBS Haldane Avenue, Kolkata – 700046.

Sd/-
BY ORDER
CEO
WBTPO



Content.

Section	Description	Page No.
Section A	General Notice.	2
Section A	Notice Inviting Quotation.	4
Section B	Scope of Work	11
Annexure-1	Declaration form	16
Annexure-2	Price schedule-Format	17
Annexure-3	Guaranteed Technical Particulars.	18

WEST BENGAL TRADE PROMOTION ORGANISATION

MILAN MELA

3, J B S Haldane Avenue
KOLKATA 700 046, PHONE: 033-22517513
NOTICE INVITING TENDER

Memo no. 119/14-15/61

Date : 26/06/2014

The Chief Executive Officer invites quotation of the work detailed in the table below.

1.	Name of work	<i>a. Supply of LT Power Cable (XLPE insulated, Aluminum conductor, 3.5 core, 300mm²) - 190 Meter.</i> <i>b. Supply of LT Control Cable (PVC insulated, Copper conductor, 7 core, 2.5mm²) - 50 Meter.</i> (For Further Detail technical specification please Refer Section-C)
2.	Location of Supply	Milan Mela Complex at 3, J B S Haldane Avenue. Kolkata-700 046
3.	Time of completion	30 days from the date of placement of order.
4.	Estimated Cost of the Work	Rupees: 2,10,000.00 (Rupees Two lac Ten thousands only)
5.	Earnest Money	Rs. 5,000.00/- (Rupees Five Thousand only) in the form of Demand Draft/Bankers Cheque drawn on any Nationalized Bank in favour of "West Bengal Trade Promotion Organization" payable at Kolkata.
6.	Availability of Tender	Tender documents will be available w.e.f. 26.06.2014 from the following Websites: <ul style="list-style-type: none">• www.wbtpo.in• www.wbidc.com
7.	Submission of tender	Bidding documents, signed by authorized person of the bidder, must be submitted before 07/07/2014, 03.00 p.m.
8.	Procedure for submission of tender	Bidders are requested to submit their tenders physically in the following address: WBTPO (Milan Mela Complex), 3- J B S Haldane Avenue., Kolkata-700 046 on or before 07/07/2014 upto 3.00 p.m.
9.	Date, time and venue of opening of	Place: Milan Mela, 3.JBS Haldane Avenue, Kolkata-700046 on 07/07/2014 at 4.00 p.m.



	Technical Bid	If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue.
10.	Validity of the bid	Ninety (90) days from the date of submission of tender. If any bidder / tenderer withdraws his bid/ tender before the said period or makes any modifications in the terms and conditions of the bid, the said earnest money shall stand forfeited
11.	Taxation	Taxes on materials and / or finished work like works, contract tax, etc. in respect of this contract whether in vogue or may be imposed in future shall be payable by the supplier and WBTPO will not entertain any claim whatsoever in this respect. However any benefit due to reduction of taxes etc. shall be passed on to WBTPO.
12.	Name of concerned Organisation	West Bengal Trade Promotion Organisation
13.	Eligibility of Bidder	Reputed Power Cable Manufacturer /Authorized Dealer / MSME Units having competency in supplying of Power cable and Control cable .
14.	Communication	The CEO, WBTPO, MILAN MELA 3.JBS HALDANE AVENUE, KOLKATA-700046
15.	Contacts	Phone No: 033-22517513 , Ms. Somdatta Basu - 9836623371, Mr. Pratik Sarkar – 9933707122

N.B. :- The material to be supplied by the supplier from their stockyard to the designated Store of WBTPO at Milan-mela Complex at 3, JBS Haldane Avenue, Kolkata-46.



1.1. Definitions

- The Company shall mean West Bengal Trade Promotion Organization(WBTPO)
- The Suppliers shall mean the party in whose favor the Supply Order will be issued.

1.2. The intending bidder may download the tender documents from the website: www.wbidc.com and www.wbtpo.in

1.3. Both **Technical bid and Financial Bid** are to be submitted duly signed by the bidder.

1.4. The Technical Bid and Financial Bid should be submitted by 07.07.2014 up to 03-00 p.m at WBTPO office.

1.5. The **FINANCIAL BID** of the prospective Bidders will be considered only if the **TECHNICAL Documents** of the Bidders found qualified by the WBTPO. The decision of the Chief Executive Officer, WBTPO will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the Notice Board of the office of Chief Executive Officer, WBTPO and at Milan Mela on the scheduled date and time.

1.6. The prospective bidder must have the capacity of selling the items (they are bidding for). The committee members may visit their premises along with other experts from the department at any time during the verification of technical bid document and before finalizing the list of qualified bidders. Bidder must have experience of supply of LT power/ control Cable to the authority of State/Central Government, authority of State/Central Government Undertaking and authority of local bodies having a **magnitude of 80 (eighty) percent in a single supply order in last three years** prior to the date of issue of this NIT .

1.7. Rates shall be remained valid for a period not less than 90 (Ninety) days from the last date of Submission of Financial Bid / Sealed Bid. If the bidder withdraws the bid during the period of bid validity the earnest money as deposited will be forfeited forthwith without assigning any reason thereof.

1.8. The intending bidder(s) are required to quote the rate in financial bid only.

1.9. The rates are to be quoted FOR at desired store of WBTPO at Milanmela Complex, 3,JBS Haldane Avenue. Kolkata-46, including all tax element, cess, Excise Duty, VAT, Carriage, loading, unloading and incidental charges (if any) complete in all respect on the prescribed format (Annexure-3) for each item both in words & figure. No claim for increase in rate at the time of supply or at subsequent time whatsoever will be entertained.

1.10.The intending bidder should submit quotation within date & time specified hereunder along with necessary documents mentioned above. Original document is to be furnished on demand.



- 1.11.** Where there is a discrepancy between the unit rate & the line item total resulting from multiplying the unit rate by the quantity, the unit rate quoted shall govern.
- 1.12.** Conditional bid or bid with clause of price variation will be rejected.
- 1.13. No mobilisation /secured advance** will be allowed.
- 1.14.** Guarantee / warranty shall be provided as per manufacturer norms.
- 1.15.** Exemption for payment of EMD to any Contractor (Govt., Semi Govt., PSU etc.), copy of relevant Govt. order needs to be furnished, failing which they will not be allowed to avail the same.
- 1.16. Refund of EMD:** The Earnest Money of all the unsuccessful Bidder deposited along with the Bids will be refunded on receipt of application from Bidders.
- 1.17.** Before issuance of the **ORDER**, the quotation inviting authority may verify the credential and other documents of the lowest Bidder, if found necessary. After verification if it is found that the documents submitted by the lowest Bidder is either manufactured or false in that case work order will not be issued in favor of the said Bidder under any circumstances.
- 1.18.** In the event of the Supplier failing to carry out his scope of work under the scope of work as per Order provisions due to the reasons attributable to the Supplier, the Supplier shall be liable to pay Liquidated Damage @ 0.5% of the Total Order Price for each completed week of delay or part thereof subjected to a maximum of 5% of the Total Order Price.
- 1.19.** In the event of the materials being considered by the Engineer-in-charge, WBTPO as inferior to that described in the specification of relevant IS Code for a specified grade, the supplier shall on demand in writing forthwith remove the entire supplied quantity of materials against the consignment at his charge & cost. Failing to do so within the stipulated period, the Engineer – In – Charge will remove the same at the supplier's risk & expenses incurred being liable to be deducted from any sum due or which may become due, to the supplier.
- 1.20. PAYMENT TERMS:**
Payment will be made by WBTPO after obtaining bill (s) in triplicate for approved supplied materials from the supplier. Test Certificate of the supplied materials should have to be furnished.
- 1.21.** The materials will be supplied from the supplier stockyard to designated store of WBTPO at MilanMela Complex, 3-JBS Haldane Avenue, Kolkata-46; loading, unloading, carriage, weighing and stacking will be done by the supplier at their own machinery & labour as reqd. for the said purpose.



1.22. Authorized representative of the supplier should present during supply of the materials.

1.23. In case of any unscheduled holidays, unforeseen circumstances hampering normal office works the next working date(s) will be treated as scheduled prescribed date for the same purpose.

1.24. Bidder must quote as per the specification. The bidder's offer shall be strictly in compliance with the specification and without any deviation.

2.1.0 General guidance for Tendering

Instructions/ Guidelines for submission of the quotations have been annexed for assisting the Bidders to participate in Quotation.

2.1.1 The bidder can download NIQ & Quotation Documents electronically from the websites of www.wbtpo.in and www.wbidc.com.

2.1.2 Participation in more than one work

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If anyone found to have applied severally in a single job; all his applications will be rejected for that job.

2.1.3 Submission of Quotation.

General process of submission, quotations are to be submitted in two Envelops mentioned below.

A. Technical proposal (Envelop-I)

The Technical proposal should contain original/photo copies of the following in two cover envelops.

A-1. Statutory Documents:

- ***NIQ Document with subsequent corrigendum(s) if any (duly signed by the bidder)***
- **Earnest Money Deposit.**
- **ANNEXTURE-1 AND 3 mentioned in the NIQ documents.**

A-2. Non statutory / Technical Documents:

- Vat Registration Certificates, PAN.
- Enlistment copy issue by government department (if any).
- Credential for completion of the supply of LT power/ control Cable to the authority of State/Central Government, authority of State/Central Government Undertaking and authority of local bodies having a magnitude of 80 (eighty) percent in a single supply order in any one year of last three years prior to the date of issue of this NIQ is to be furnished. In no case 'Supply Order/ Work Order' or any type of 'Invoice Order' shall be



treated as credential.

B. Financial proposal (Envelop-II)

i. Price Schedule.

[Note: The supplier is to quote the amount in INR at the space marked for quoting their serial number wise price, taking into account the clause under section-A, under Sl. No. 1.9.

All the two envelopes are to be placed inside a large sealed envelope marked as “Bid for Supply of LT Power & Control Cable at Milan Mela” and submitted to the WBTPPO, MILAN MELA, 3 JBS HALDANE AVENUE, KOLKATA-700046 BY 03.00 PM, 07/07/2014.

All copies of documents should physically submitted to the office of WBTPPO, Milan Mela at 3 JBS Haldane Avenue, Kolkata- 700 046 super scribed as “Bid for Supply of LT Power & Control Cable at Milan Mela” in the following manner b by 07/07/2014, 03.00 PM .

2.1.6 AWARD OF CONTRACT

The Bidder whose Bid has been accepted will be notified by the Tender Inviting & Accepting Authority through acceptance letter.

BY ORDER

**CEO
WBTPPO**



Memo No. : 14-15/61(i)

Date : 26/06/2014

**Copy forwarded for information and wide circulation through Notice Board
to :**

1. WBIDC
2. WBIIDC
3. KMDA
4. KMC
5. Notice Board.

BY ORDER

**CEO
WBTPO**



SECTION — B

Supply of LT Power and Control Cable.

3.1.0 LT Power Cable:

3.1.1. SPECIFICATIONS:

The specification covers design, manufacture, shop testing, packing and delivery of 1100 Volts grade, Aluminium conductor, XLPE insulated multi core power cable to the designated Store of WBTPO at Milan Mela Complex.

3.1.2. SERVICE CONDITIONS:

Equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical conditions.

Maximum ambient temperature (deg C) 50

Maximum temperature in shade (deg C) 45

Relative Humidity (%) 10 to 100

3.1.3. STANDARDS:

Unless otherwise specified elsewhere in this specification, the rating as well as performance and testing of the LT XLPE power cables shall conform to the latest revisions available at the time of placement of order of all the relevant standards as listed in, but not limited to the list.

Serial No.	Standard No.	Title
1	IS: 7098(Part 1)-1988	Specification for XLPE insulated , PVC sheathed cables for working voltages up to and including 1100 Volts.
2	IS : 5831-1984	Specification for PVC insulation and sheath of electric cables.
3	IS: 8130-1984	Specification for conductors for insulated electric cables and flexible cords.
4	IS: 3975-1988	Specification for Mild Steel wires, formed wires and tapes for armouring of cables.



5	IS: 10462 (Part 1) –1983	Fictitious calculation method for determination of dimensions of protective covering of cables.
---	--------------------------	---

3.1.4 GENERAL TECHNICAL REQUIREMENTS:

3.1.4.1 CABLE VOLTAGE LEVEL DESIGN BASIS

1.1 KV Earthed System.

3.1.4.2 ARMoured CABLES

1100 Volts Grade L.T. cable with stranded H2/H4 grade aluminium conductor, XLPE insulated, colour coded, laid up, with fillers and/or binder tape where necessary provided with extruded PVC inner sheath , single galvanized round steel wire / strip armoured and provided with PVC outer sheath. Both inner and outer sheath shall be of Type ST-2 as per IS: 5831-1984 and cable shall be conforming to IS: 7098 (Part 1) - 1988 (amended upto date) and bearing ISI mark. In case of single core cable armouring shall be of aluminium.

3.1.4.3. INSULATION , INNER SHEATH AND OUTER SHEATH :

Insulation, inner sheath and outer sheath shall be applied by separate extrusion. Inner sheath shall be applied by extrusion only. Bedding of PVC tape for inner sheath is not acceptable. Colour of outer sheath shall be black. The quality of insulation should be good and insulation should not be deteriorated when exposed to the climatic conditions.

3.1.4.4. SEQUENTIAL MARKING OF LENGTH ON CABLE:

Non erasable Sequential Marking of length shall be provided by embossing on outer sheath of the cable for each meter length with Company's logo, type reference, voltage grade, cable size, year of manufacturing.

3.1.4.5. TESTS:

Certificates for the following Routine test for the ordered cable to be furnished with no extra cost:

- Conductor resistance measurement.
- Partial discharge test.
- High Voltage test (Test value shall be 3KVrms for 5 minutes.)

Type test of identical cable shall also be furnished. All tests shall be carried out as per guidelines of IS:1554 Part-I, 1988.

3.1.4.6. MAKES:

Cable Makes shall be limited to Polycab / RPG / Universal Cable / Finolex / Gloster.



3.2.0 LT Control Cable:

3.2.1. SPECIFICATIONS:

The specification covers design, manufacture, shop testing, packing and delivery of 1100 Volts grade, Copper conductor, PVC insulated multi core power cable to the designated Store of WBTPO at Milan Mela Complex.

3.2.2. SERVICE CONDITIONS:

Equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical conditions.

Maximum ambient temperature (deg C) 50

Maximum temperature in shade (deg C) 45

Relative Humidity (%) 10 to 100

3.2.3. STANDARDS:

Unless otherwise specified elsewhere in this specification, the rating as well as performance and testing of the LT PVC Control cables shall conform to the latest revisions available at the time of placement of order of all the relevant standards as listed in, but not limited to the list.

Serial No.	Standard No.	Title
1	IS: 1554 (Part 1)-1988	Specification for PVC insulated, PVC sheathed cables for working voltages up to and including 1100 Volts.
2	IS : 5831-1984	Specification for PVC insulation and sheath of electric cables.
3	IS: 8130-1984	Specification for conductors for insulated electric cables and flexible cords.
4	IS: 3975-1988	Specification for Mild Steel wires, formed wires and tapes for armouring of cables.
5	IS: 10462 (Part 1) –1983	Fictitious calculation method for determination of dimensions of protective covering of cables.

3.2.4. GENERAL TECHNICAL REQUIREMENTS:

3.2.4.1. CABLE VOLTAGE LEVEL DESIGN BASIS

1.1 KV Earthed System.

3.2.4.2. ARMOURED CABLES

1100 Volts Grade L.T. cable with stranded Copper conductor, PVC insulated, colour coded, laid up, with fillers and/or binder tape where necessary provided with extruded PVC inner sheath , single galvanized round steel wire / strip armoured and provided with PVC outer sheath. Both inner and outer sheath shall be of Type ST-1 as per IS: 5831-1984 and cable shall be conforming to IS: 1554 (Part 1) - 1988 (amended upto date) and bearing ISI mark. In case of single core cable armouring shall be of aluminium.

3.2.4.3 INSULATION , INNER SHEATH AND OUTER SHEATH :

Insulation, inner sheath and outer sheath shall be applied by separate extrusion. Inner sheath shall be applied by extrusion only. Bedding of PVC tape for inner sheath is not acceptable. Colour of outer sheath shall be black. The quality of insulation should be good and insulation should not be deteriorated when exposed to the climatic conditions.

3.2.4.4. SEQUENTIAL MARKING OF LENGTH ON CABLE:

Non erasable Sequential Marking of length shall be provided by embossing on outer sheath of the cable for each meter length with Company's logo, type reference, voltage grade, cable size, year of manufacturing.

3.2.4.5. TESTS:

Certificates for the following Routine test for the ordered cable to be furnished with no extra cost:

- Conductor resistance measurement.
- Partial discharge test.
- High Voltage test (Test value shall be 3KVrms for 5 minutes.)

Type test of identical cable shall also be furnished. All tests shall be carried out as per guidelines of IS:1554 Part-I, 1988.

3.2.4.6. MAKES:

Cable Makes shall be limited to Polycab / RPG / Universal Cable / Finolex / Gloster.



ANNEXTURES

- **ANNEXTURE-1
DECLARATION BY THE BIDDER.**
- **ANNEXTURE-2
PRICE BID SCHEDULE**
- **ANNEXTURE-3
Gurrenteed Technical Particulars.**

ANNEXTURE-1

DECLARATION BY THE BIDDER

I /We have carefully gone through the Notice Inviting Quotation and other tender documents mentioned therein along with the drawing attached.

My/Our Bid is offered taking due consideration of all factors regarding the local site conditions stated in this Detailed Notice Inviting Quotation to complete the proposed work. I/We promise to abide by all the stipulations of the contract documents and carry out and complete the work to the satisfaction of the authority.

I/We also agree to procure all the tools at my/our cost required for the work.

Signature of Bidder
Postal address of the Bidder

BY ORDER
CEO
WBTPO



ANNEXTURE-2

PRICE BID SCHEDULE

Serial No.	Description	Quantity in Meter.	Rate/Meter	Amount
			Figures	
01	Supply of LT Power Cable as per Specification.	190		
02	Supply of LT Control Cable as per Specification.	50		
Total in Figure				
Total (In Words).....only.				

Note:

- Rate should include all tax element, cess, Excise Duty, VAT, Carriage, Loading, Unloading, and incidental charges (if any) complete in all respect.
- Price to be mentioned in Price bid only.
- Clause 1.9 to 1.12 to be followed strictly.



ANNEXTURE-3

Guaranteed Technical Particulars

(i) For Power Cable:

FOLLOWING G.T.P. SHALL BE FURNISHED BY VENDOR ALONG WITH THE OFFER:

Sl. No	Specified Requirement	
1)	Offered Make	
2)	Voltage Grade	
3)	Conductor	
a)	Nominal Cross Section	
b)	Material with ISS Reference	
c)	Stranded and round shaped	
d)	Maximum DC resistance at 20° C	
e)	Maximum AC resistance at 90° C	
f)	Maximum no. of Strands in one complete core	
g)	Reactance at 50° (assuming Trefoil) in ohm/ kV	
4)	Insulation	
a)	Material with ISS reference	
b)	Thickness of Insulation (mm).	
c)	Voltage grade	
d)	Capacitance in mfd/ km	
e)	Dielectric loss at rated voltage	
5)	Inner & Outer Sheath	
a)	Inner sheath Material & ISS reference	
b)	Inner sheath thickness	
c)	Outer sheath Material & ISS reference.	
d)	Outer sheath thickness	
6)	Complete Cable	
a)	Ref. ISS standard	
b)	Total weight of Cable in Kg / meter	
c)	Current carrying capacity as per ISS	
i)	Buried in Ground	
ii)	In air	
iii)	Within Duct	
d)	Short circuit withstand capability for 0.2 sec	
e)	Minimum bending radius	
f)	Minimum drum length	
g)	No. of drums offered	



(ii) **For Control Cable:**
FOLLOWING G.T.P. SHALL BE FURNISHED BY VENDOR ALONG WITH THE OFFER:

Sl. No	Specified Requirement	
1)	Offered Make	
2)	Voltage Grade	
3)	Conductor	
a)	Nominal Cross Section	
b)	Material with ISS Reference	
c)	Stranded and round shaped	
d)	Maximum DC resistance at 20° C	
e)	Maximum AC resistance at 90° C	
f)	Maximum no. of Strands in one complete core	
g)	Reactance at 50° (assuming Trefoil) in ohm/ kV	
4)	Insulation	
a)	Material with ISS reference	
b)	Thickness of Insulation (mm).	
c)	Voltage grade	
d)	Capacitance in mfd/ km	
e)	Dielectric loss at rated voltage	
5)	Inner & Outer Sheath	
a)	Inner sheath Material & ISS reference	
b)	Inner sheath thickness	
c)	Outer sheath Material & ISS reference.	
d)	Outer sheath thickness	
6)	Complete Cable	
a)	Ref. ISS standard	
b)	Total weight of Cable in Kg / meter	
c)	Current carrying capacity as per ISS	
i)	Buried in Ground	
ii)	In air	
iii)	Within Duct	
d)	Short circuit withstand capability for 0.2 sec	
e)	Minimum bending radius	
f)	Minimum drum length	
g)	No. of drums offered	