



TRAVANCORE TITANIUM PRODUCTS LIMITED
Kochuveli, Thiruvananthapuram 695 021
Phone : 0471 2502163 email: contract@ttpltd.in

CD/CN/KV-28/Commissioning _GRP Poles at TTPL/21-22

31.08.2021

Tender Notice

Sealed tenders are invited from experienced contractors/firms in prescribed format for the work of **“Erection, Installation and Commissioning of 30 Nos of 7 Mtr Length GRP Street Light Pole with Led Street Light at TTPL”**. The tender shall be enclosed in an envelope, sealed and superscripted with Tender No., Date and due date and description as **“Erection, Installation and Commissioning of 30 Nos of 7 Mtr Length GRP Street Light Pole with Led Street Light at TTPL”**. The same shall then be forwarded to **The Manager(Commercial), Travancore Titanium Products Limited, Kochuveli, Thiruvananthapuram, Kerala Pin 695 021.**

The tender form can be obtained from the office of the under signed between 9.00a.m and 4.00 p.m on all working days except Saturdays, after remitting the tender form cost. **Cost of tender form is Rs.1000/-+GST @ 18%(Total Rs.1180/-** Tender document can also be downloaded from our website (www.travancoretitanium.com) and shall submit the Tender along with a DD against the tender form cost & EMD in favour of Travancore Titanium Products Limited payable at Thiruvananthapuram.

EMD: Rs7,500/- (by cash /DD) (refundable)

Sealed Tenders will be received at our office on all working days and the last date for submitting the same is on **14.09.2021** at 12 noon. Tenders received after the due date & time will not be accepted. Fax/email offers also will not be accepted. The bids will be opened on 2 pm on **14.09.2021** in the presence of the tenderers present at that time.

for TRAVANCORE TITANIUM PRODUCTS LIMITED

Manager(Commercial)

Encl: proforma

Signature of the bidder:

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31.08.2021

Name of work: “Erection, Installation and Commissioning of 30 Nos of 7 Mtr Length GRP Street Light Pole with Led Street Light at TTPL”

Due date: 14.09.2021 up to 12 noon (date of submission of tenders)

Sealed tenders are invited from experienced contractors/firms for the work of **Erection, Installation and Commissioning of 30 Nos of 7 Mtr Length GRP Street Light Pole with Led Street Light at TTPL**. The work should be carried out as per the specific instructions contained in the scope of work and terms and conditions given below.

1. Scope of work

1. Erection, installation and commissioning of 30 Nos of 7 mtr height GRP street light pole (Glass Reinforced Polymer composite poles) with 45 watts led street light and its all related works like laying of power cable, tapping from sources, providing junction boxes, flexible cables, providing automatic timer for auto on/off etc at various location of TTPL as per BOQ. TTPL will supply GRP poles, led lights, Armoured power cables, junction boxes, mcbs. and cable glands.
2. Preparation of foundation suitable for Erection of 7 meter GRP street light pole. 6 meter of pole above the ground level embedded 1m in foundation with 1:2:4 or equivalent concrete with normal reinforcement including finishing of foundation complete. and Fixing of its arm. Contractor shall provide 2.5 inch dia PVC pipe with bends for power cable entry and exit from junction box for each street light pole. Contractor scope shall include arrangements of shutters for retaining concrete during preparation of foundation. TTPL will supply materials like baby metals, sand and cement to contractor for preparation of foundation.
3. Supply and erection of outdoor type feeder pillar box with 50A, 4 pole power contactor, timer circuit, mcb etc. For automatic operation of street lights from dusk to dawn.

Signature of the Bidder:

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4. Excavation of all kind of soil for laying of 4core x10 mm² Aluminum Ar cable with continuous 12swg G.I earth wire and provide layer of bricks and warning tape for protection of power cables throughout the trench and back fillingthe excavated earth (0.5m wide and 0.8m width). Contractor shall arrange bricks and warning tape and TTPL will supply 4core x10mm² Aluminium Ar.power cable and 12swg G.I earth wire.
5. Excavation of all kind of soil for laying of 4core x2.5mm² Cu Ar cable with continuous 12swg G.I earth wire and provide layer of bricks for protection of power cables and warning tape for protection of power cable throughout the trench and back fillingthe excavated earth (0.5m wide and 0.8m width). Contractor shall arrange bricks and warning tape and TTPL will supply 4core x2.5mm² Cu ar power cable and 12swg G.I earth wire.
6. Tapping of supply from nearby power source with 10 Sq.mm 4 Core Aluminium Cable to feeder pillars and to all street light poles by 2.5Sq.mm 4 core copper cable. This outgoing feeder (feeder pillar) shall be completed with given capacity, 4pole power contactor, and timer to switch ON and OFF of street lightsautomatically.
7. Contractor shall do the necessary arrangement for identification of cable by providing proper cabletag, warning tape and also mark incoming & outgoing legends suitably on the feeder, street light poles. Routemarkers to be provided along the cable route to enable its easy tracking and electrical underground cable warning tape throughout the trench. Trench should be of suitable size back filling after drawing of cable in HDPE pipe and laying.
8. Cable Terminations with lugs, power cable glanding, loop in & loop out at junction boxes of individual poles and termination of cables at luminaries. Distribution of lighting on 3 phases should be balanced by properlooping. TTPL will supply led lights, junction box, double compression gland, MCB. Contractor shall arrange cable lugs.
9. Supply of 250 mtr 3core 1.5mm² Cu unarmoured copper flexible round cable and 30nos of PVC glands and 16amp connectors for termination at luminaire
10. SITC of 2 nos of 1.5inch dia GI pipe earthing as per IS standard and interconnecting to existing earth grid from source .12swg GI bare wire to be used for interconnecting the earth grid. TTPL will supply GI bare conductor. It shall be run along with proposed power cable trench for street light
11. Each street light pole shall be provided with earthing, using 15metre long 12swg GI wire and shall be connected to earthing stud/junction box of the pole.

12. Both underground cable and GI earth wire shall be terminated at the terminal/ looping box in the looping zone. Further wiring to the light fixture shall be done with three core flexible copper wire (2core for power supply and thirdcore for earthing).

13. Distance between two poles shall be approximately 15-20 meter for pole height of 6 m (above ground). Distance between two poles may be changed as per sitecondition. Location drawing is attached in annexure 1

14. Contractor shall do the testing & commissioning of cables, light poles and feeders.

Item Details

SI No.	Item Description	Unit	Qty
1	Erection of 7meter GRP pole, 6 meter above the ground level embedded 1m in foundation with 1:2:4 or equivalent concrete with normal reinforcement including finishing of foundation complete with necessary curing and finishing and Fixing of its arm. Contractor shall provide 2.5inch dia PVC pipe with bends for power cable entry and exit from junction box (approximate length of pvc pipe 1.5mtr/pole). Contractor scope shall include arrangements of shutters for retaining concrete during preparation of foundation.(TTPL will supply GRP pole, foundation materials like baby metals, sand , cement)	Nos	30
2	Fixing and commissioning of 45Watts Led lights to poles including its junction box, hardwares, MCB, scockets and PVC enclosure (TTPL will supply led light, junction box, MCB and connectors)	Nos	30
3	Excavation of all kind of soil for laying of 4core x10mm2 Aluminum Ar. cable with 12swg G.I earth wire and providing layer of brick, warning tape and back filling the excavated earth (0.5m wide and 0.8m width). Contractor shall arrange red brick and cable root markers. (TTPL will supply 4core x10 mm2 Al Ar cable and 12swg GI wire).	Mtr	100
4	Excavation of all kind of soil for laying of 4core x2.5mm2 Cu ar cable 12swg G.I earth wire and providing layer of brick, warning tape and back filling the excavated earth (0.5m wide and 0.8m width). Contractor shall arrange red brick and cable root markers (TTPL will supply 4core x2.5mm2 Cu ar cable and 12swg GI wire.)	Mtr	800
5	Supplying & erecting street light control panel in powder coated CRCA 14/16 SWG sheet/ equivalent FRP box, outdoor type, three phase, 415 Volts consisted of suitable rating contactor, 24 Hrs Digital/ Astronomical time switch, TPN MCB 50 Amp, Auto/ manual selector switch, ON/OFF push buttons, indicator lamps, control wiring, metering device, etc for automatic operation & overcurrent, short circuit, earth fault protection provided iron frame / CC foundation. Make: Reputed make	Nos	2
6	SITC of GI Pipe earthing 2.5 mtr depth and 1.5inch dia	Nos	2
7	Supply dressing and termination following materials from junction box to luminare as per scope of work,		
a)	3core 1.5mm2 Cu unarmoured copper round cable Make : Polycab, Gloster, universal	Mtr	250

b)	PVC glands suitable for 3Cx1.5mm ² Cu round cable .Make :reputed make	Nos	30
c)	16Amp elmax screw type connectors	Nos	120
d)	Pin type Copper insulated 2.5mm ² ferrules (100 nos/packet)	packet	5
e)	Double compression gland suitable for 4C x 10mm ² Al Ar. Cable (1 inch gland)	Nos	10
g	Cable end termination 4core x2.5mm ² Cu ar cable and 4core x10 mm ² Al Ar. cable (TTPL will supply 0.75 inch Double compression gland)	Nos	70

2. Terms and Conditions :

1. Interested parties shall visit the site and understand the quantum of job before participating in the tender on working days between 10 am to 3 p.m.
2. Proposed location for street light inside TTPL is attached in **Annexure A**
3. **Contractor or contractor appointed persons shall have minimum B-grade license as per KSEI.**
4. The contractor shall take up the job in the areas as directed by Officer in charge or his authorized representative.
5. The material supplied and work executed shall comply with IS Standards and IE Rules. TTPL shall have the right to reject any materials and workmanship, if it is found not conforming to specifications, approved brand, terms and conditions.
6. The contractor shall have adequate competence in carryout civil works
7. Contractor shall arrange to collect all the material from storage area to work site
8. Contractor shall arrange to remove all obstacles like waste materials/rocks in proposed cable laying route.
9. Approval shall be accorded from TTPL before commencement of any extra work, not mentioned in the work order but necessary for the successful completion of the work.
10. All tools, welding transformers etc. required for the work should be arranged by the contractor at their own cost.
11. The contractor shall make his own arrangements for welding, drilling and cutting jobs if any and all consumables required for welding and cutting jobs shall be in his scope of work. Power will be supplied by TTPL free of cost from the nearby available source.
12. The contractor should strictly abide by all the safety rules and regulations prevailing at M/s T.T.P.L .All the work men of the contractor should wear safety equipments while on work .M/s T.T.P.L will not be responsible for any mishap during the tenure of the work. M/s T.T.P.L will provide the necessary safety equipments viz. gloves,safety belt etc

13. Any item which may not have been specifically mentioned or which the contractors may not explicitly mention in his tender but are necessary for the completion of work shall be deemed to be included in the contract and be provided by the contractor without any extra charge.

3. Pre-Qualification Criteria: Experience of having successfully completed similar works as per the scope of work like electrical installation and commissioning works of 150 KVA including cabling or above during last seven years ending 31st July 2021 should be either one of the following:

i. Three similar completed works costing not less than the amount equal to Rs. 1,99,600/- in a single year.

ii. Two similar completed works costing not less than the amount equal to Rs.2,49,500/- in a single year.

iii. One similar completed works costing not less than the amount equal to Rs.3,99,200/- in a single year.

4. In support of Clause 3, tenderer should submit the **copy of work orders along with satisfactory completion certificates.**

5. TTPL Scope of Supply

a. TTPL will supply GRP Poles, foundation preparation materials like baby metals, sand, cement, led light junction box, MCB, 4 core x 10mmk 2 Al Ar cable 4core x 2.5mm 2 Cu ar cable, 12 swg GI wire, 0.75 inch Double compression glands as mentioned in scope of work

6. Contractor scope of supply

a. Contractor shall supply all materials as per scope of work and Price Schedule for successful completion of work.

7. Payment Terms

* 90% payment after the completion and commissioning of the work as per scope of work

* 10% of the amount shall be paid after the guarantee period of one year or against the Performance Bank Guarantee of an equal amount for 12 months from the date of acceptance and final completion of the work.

8. Work completion period

Period of completion of work is **90 days** from the date of clearance from Electrical Section.

9. Valuation of Variation:

Any additional works or variation shall be executed on written instruction. The same shall be carried out on mutually agreed rates. The Purchaser and contractor shall determine the rates for such additional work by mutual negotiations, however, prior to commencement of extra work. Payment for such work shall be made in interim bills.

10. GENERAL TERMS AND CONDITIONS:

1. Details of ESI & PF registration

- i) ESI Registration number:
- ii) PF Registration number.....

*** The bidder not having valid ESI and PF registration is not eligible for participating in the tender.**

- 2. The bidder shall submit Tender document duly filled and signed along with the enclosures mentioned in the tender document within the time stipulated in the tender notice. Bids should bear the signature of the bidder in all pages. Otherwise bid will be rejected.
- 3. Approval to be obtained from EIC for all the materials used.
- 4. Check list to be prepared and submitted along with the final bill for the inspection and acceptance of material.
- 5. The bidder shall remit the tender form cost and EMD as given in the tender document. The bids without remitting tender form cost and EMD will be rejected.
- 6. The rate quoted shall be exclusive of GST and the GST applicable should be mentioned at the space provided in the Price format. If the bidder is below the threshold limit of GST that should be mentioned in the price format and a self declaration shall be submitted with the tender.
- 7. The tender must be firm for a period of three months from the date of opening of the tender or till the tender is decided, whichever is earlier during which period the bidder will not be free to withdraw the tender. Any such withdrawal will entail forfeiture of the Earnest Money Deposit(EMD) and also result in the tenderer being made liable for the losses and damages sustained by the company in rearranging the work.

8. It is no binding on the company to accept the lowest offer. The company reserves the right to cancel/postpone the tender or to reject any or all offers without assigning any reason.
9. The tenderer should remit the Earnest Money Deposit (EMD) mentioned in this document in cash/DD and proof of thereof should be enclosed along with the tender. Other mode of remittance will not be accepted.
10. If any irregularity or fraudulent behavior is noticed on part of the contractor / his agents / representatives or the crew of the vehicle engaged by the contractor for the performance of the contract, the company reserves the right to take all suitable action deemed fit against the contractor and those concerned.
11. The Contractor will be responsible for meeting all the requirements of the various labour enactments applicable from time to time and should indemnify and keep indemnified the company against all losses and damages sustained by the company in this regard at all times.
12. The Contractor should comply with all relevant formalities under contract labour (Regulation and Abolition) Act 1971, such as display of rate of wages, date, place and time of payment of wages, date of payment of unpaid wages etc. they should also intimate the time, date and place of disbursement of wages to the supervisory Officer nominated under the above act for certification of payment to contract workers.
13. The Contractor should strictly adhere to the Safety Rules prevailing in the company failing which penalty are decided will be imposed. Company will provide safety gloves to the workers engaged. All other required safety protective equipment is under the scope of Contractor. The Company is in no way responsible for any injury, disability or death of contractor's workmen due to non-compliance of safety regulations.
14. The workers engaged by the contractor shall wear the ID cards provided from the Main gate Security persons and displayed same while on work.
15. The Contractor should fix a display board on the materials of their own kept within the Company premises indicating the names of the contractor and Work Order No.
16. The work should be completed within the time limit given by the Officer in charge of the work.
17. The Company reserves the right to cancel the work order forfeiting security deposit if the work is not started within 10 days from the date of receipt of work order and also to terminate the contract at any time if the work is not done with proportionate progress to the satisfaction of the company officials and in all such cases the company will be at liberty to get the work done in any manner that the company thinks fits and all losses and damage sustain by the company in this regard will be recovered from contractor and his assets.
18. All the waste materials should be removed and cleared the work site immediately after the completion of the work.

19. Company reserve the right to accept/reject any of the tender after evaluation with or without assigning reason no matter whether a Tenderer has quoted the lowest rate. All questions/disputes arising out or in connection with this shall be decided by the Managing Director of the company and his decision thereof shall be final and binding to all tenderers.
20. **Jurisdiction:** Any dispute or questions relating to or arising out of the finalization of this tender, if remains, shall be subject to the executive jurisdiction of the courts at Thiruvananthapuram.
21. **Agreement:** The liability of contractor/bidder under this contract will commence on the date specified in the letter of Intent/ Work order. The successful bidder shall be required to execute an agreement with TTPL if the contract value is above Rupees One lakh immediately from the date of issue of work order for carrying out the work according to the terms and conditions of the contract given along with work order. The agreement shall be executed on Rs. 200/-Stamp paper and shall be in the proforma as specified by TTP. The provision contained in tender papers and other documents exchanged between the Bidder and TTP shall form part of the contract. The Earnest Money Deposit is liable to be forfeited in case the contractor fails to execute the Agreement within the stipulated period as mentioned above.
22. **Security deposit:** Security Deposit equal to 3% of the contract value shall be remitted immediately from the date of issue of work order for the due performance of the contract by means of Demand Draft payable at Thiruvananthapuram. The Security deposit shall not bear any interest and shall be released only after the successful completion of all contractual obligations.
23. **Liquidated damages:** In case of any delay in the execution of the Order beyond the stipulated date of work schedule including any extension permitted in writing, the TTPL reserves right to recover from the contractor a sum equivalent to 0.5% of the total value of the delay for each week of delay and part thereof subject to a maximum of 10% of the total value of the Order. Alternatively, the Company reserves the right to execute the work from elsewhere at the sole risk and cost of the contractor and recover all such extra cost incurred by the company in execution of work by the above procedure.
24. **Validity of rates:** The quoted rate must be valid for a period for 90 days from the date of opening of the tender and till the completion of the work if the contract is awarded.
25. **Guarantee:** The tenderer should also provide a guarantee for one year against poor workmanship. 10% of the contract amount will be retained by the company during the guarantee period.
26. Bids should bear the signature of the bidder in all pages.
27. All workers engaged with the work shall have Police Clearance Certificate (PCC) and other formalities insisted by Security Department of TTPL.

28. Canteen charges will be deducted from the contractors bill as fixed by the canteen authorities.
29. If the Contractor fails to remit SD and execute agreement within the stipulated period, Company have the right to cancel the work order awarded to the successful bidder and the work will either be executed by L2 bidder or any other source at the risk and cost of the successful bidder.
30. All statutory deductions will be made from the contractor's bill as per rules.
31. Bids without remitting EMD /Tender cost or both will be rejected.
32. **Tender Form Cost: Rs. 1000/- + GST @ 18% (Total Rs.1180/-)**
33. **Earnest Money Deposit (EMD): Rs. 7,500/- (refundable)**
34. **Exemption in Tender Form Cost and EMD is as per Govt. rules.**
35. **Due date of Submission of tender : 14.09.2021 upto 12.00 noon and will be opened at 2.00 p.m.** on the same day in the presence of those tenderers who are present at that time.
36. **Documents to be submitted along with the tender**
 1. **Tender Document duly filled and signed in all pages including annexures**
 2. **Proof of experience as per Clause 3 and 4**
 3. **Proof of Tender cost and EMD remittance**
 4. **Copy of ESI,PF,GST and MSME (if applicable) registration**
 5. **Copy of B Grade License as per KSEI**
37. Evaluation of bids: The evaluation of the bids will be based only on the documents Submitted.
38. Deductions: All statutory deductions will be made from the contractor's bill as per rules. The contractor shall remit ESI and PF amount and the proof of remittance shall be furnished when ever company insists.

for TRAVANCORE TITANIUM PRODUCTS LIMITED



Manager(Commercial)

PARTICULARS OF TENDERER

1. Name of the Bidder:
2. (a) Registered office address of the Bidder:
(b) Address for correspondence:
3. Phone Nos.:
4. Mobile Nos.:
5. E-mail address:
8. Status of the tenderer (Individual, Prop. firm, Partnership, Ltd. Company, Co-operative Society, Other):
9. Year of establishment:
10. PAN:
11. GST Registration No.
12. ESI Registration No.
13. PF Registration No.
14. MSME (if applicable) registration number:
15. Name and address of Proprietor/ Partners/ Directors:

Declaration

We confirm that we have read and understood all tender conditions and we accept all tender conditions in its entirety.

Date:

Signature:

Name of Person signing:

Tenderer's Name and address with seal:

Signature of the Bidder:

PRICE PROFORMA

CD/CN/KV-28/Commissioning _GRP Poles at TTPL/21-22

31.08.2021

Name of work: “Erection, Installation and Commissioning of 30 Nos of 7 Mtr Length GRP Street Light Pole with Led Street Light at TTPL”

Due date: 14.09.2021 up to 12 noon(date of submission of tenders)

SI No.	Item Description	Unit	Qty	Rate/Unit (Rs.)	Total Amount (Rs.)
1	Errection of 7meter GRP pole, 6 meter above the ground level embedded 1m in foundation with 1:2:4 or equivalent concrete with normal reinforcement including finishing of foundation complete with necessary curing and finishing and Fixing of its aram. Contractor shall provide 2.5inch dia PVC pipe with bends for power cable entry and exit from junction box (approximate length of pvc pipe 1.5mtr/pole). Contractor scope shall include arrangements of shutters for retaining concrete during preparation of foundation.(TTPL will supply GRP pole, foundation materials like baby metals, sand , cement)	Nos	30		
2	Fixing and commissioning of 45Watts Led lights to poles including its junction box, hardwares, MCB, scockets and PVC enclosure (TTPL will supply led light, junction box, MCB and connectors)	Nos	30		
3	Excavation of all kind of soil for laying of 4core x10mm2 Aluminum Ar. cable with 12swg G.I earth wire and providing layer of brick, warning tape and back filling the excavated earth (0.5m wide and 0.8m width). Contractor shall arrange red brick and cable root markers. (TTPL will supply 4core x10 mm2 Al Ar cable and 12swg GI wire).	Mtr	100		
4	Excavation of all kind of soil for laying of 4core x2.5mm2 Cu ar cable 12swg G.I earth wire and providing layer of brick, warning tape and back filling the excavated earth (0.5m wide and 0.8m width). Contractor shall arrange red brick and cable root markers (TTPL will supply 4core x2.5mm2 Cu ar cable and 12swg GI wire.)	Mtr	800		
5	Supplying & erecting street light control panel in powder coated CRCA 14/16 SWG sheet/ equivalent FRP box, outdoor type, three phase, 415 Volts consisted of suitable rating contactor, 24 Hrs Digital/	Nos	2		

Signature of the Bidder:

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	Astronomical time switch, TPN MCB 50 Amp, Auto/manual selector switch, ON/OFF push buttons, indicator lamps, control wiring, metering device, etc for automatic operation & overcurrent, short circuit, earth fault protection provided iron frame / CC foundation. Make: Reputed make				
6	SITC of GI Pipe earthing 2.5 mtr depth and 1.5inch dia	Nos	2		
7	Supply dressing and termination following materials from junction box to luminare as per scope of work,				
a)	3core 1.5mm2 Cu unarmoured copper round cable Make : Polycab, Gloster, universal	Mtr	250		
b)	PVC glands suitable for 3Cx1.5mm2 Cu round cable .Make :reputed make	Nos	30		
c)	16Amp elmax screw type connectors	Nos	120		
d)	Pin type Copper insulated 2.5mm2 ferrules (100 nos/packet)	packet	5		
e)	Double compression gland suitable for 4C x 10mm2 Al Ar. Cable (1 inch gland)	Nos	10		
8	Cable end termination 4core x2.5mm2 Cu ar cable and 4core x10 mm2 Al Ar. cable (TTPL will supply 0.75 inch Double compression gland)	Nos	70		
				<u>TOTAL</u>	

I. Please tick (a or b) whichever is applicable

a. The above rates are inclusive of GST

b. The above rates are exclusive of GST

II. If exclusive of GST, % of GST.....

III. If not mentioned the % of GST, the rate will be considered as inclusive of GST.

Signature of the Tenderer :

Name & Address. :

Signature of the Bidder:

ANNEXURE - A

