

May 2015

Planting and Maintenance of trees at Vallarpadom Container Terminal Road from Chainage 9140m to 14850m as a part of KMRL Afforestation and City Beautification Programme



**KOCHI METRO RAIL LIMITED
8th FLOOR, REVENUE TOWER,
PARK AVENUE ROAD,
ERNAKULAM**

Planting and Maintenance of trees at Vallarpadom Container Terminal Road from Chainage 9140m to 14850m as a part of KMRL Afforestation and City Beautification Programme

Job No: KMRL/PRJ/125/2013 VOL II/TEN 04-15

Dated: 28.05.2013

1. NOTICE INVITING TENDER

Kochi Metro Rail Ltd (KMRL) also called employer, invites tender from eligible company/firm, having experience of similar contract, for the work, “**Planting and Maintenance of trees at Vallarpadom Container Terminal Road from Chainage 9140m to 14850m as a part of KMRL Afforestation and City Beautification Programme**”. The detailed scope of the work is provided in the tender document. Tender documents may be downloaded from the Website www.kochimetro.org.

1.1.1 Key details:

Name of Work	Planting and Maintenance of trees at Vallarpadam Container Terminal Road from Chainage 9140m to 14850m as a part of KMRL Afforestation and City Beautification Programme
Availability of tender form	Documents can be downloaded from the official website of the KMRL : www.kochimetro.org on or after 28.05.2015
EMD :	Demand draft of Rs.-5000/- drawn in favour of Kochi Metro Rail Ltd payable at Kochi
Time of completion	3 months for planting and maintenance as per maintenance plan.
Last date & time of submission of Tender :	11.06.2015 2.00 PM
Tender Opening	11.06.2015 2.30 PM

1.1.2 Late bid (received after date and time of submission of bid) shall not be accepted under any circumstances.

1.1.3 KMRL reserves the right to accept or reject any or all proposals without assigning any reasons. No bidder shall have any cause of action or claim against KMRL for rejection of his proposal.

For Kochi Metro Rail Ltd

GM Civil

2. GENERAL TERMS AND CONDITIONS FOR BIDDERS

1. The company/firm must have successfully completed similar contract in Govt./PSU/Autonomous institutions/other reputed organizations, proof of experience shall be submitted.
2. The tender should reach KMRL on or before 11.06.2015 14:00 Hrs and will be opened on 11.06.2015, at 14.30 hrs in presence of bidders or their representatives who choose to be present. If the date specified for opening of tender happens to be a holiday for KMRL, it will be opened next working day at the designated time.
3. The offers received through telex/tele-fax/e-mail will not be accepted by KMRL under any circumstances.
4. KMRL shall not be responsible for any delay/loss or non-receipt of tenders by post/courier service.

2.1 Submission of Bid

- a. While submitting the tender, the bidder will be deemed to have read, understood and accepted all the terms and conditions stated in this document and no change, what so ever desired, will be entertained by KMRL.
- b. Any bid received after the last date/time of submission of tender will be returned unopened to the bidder.
- c. The bid should be properly sealed and should possess the name of the Tender and Tender Number in the Cover and should be addressed to General Manager Civil, Kochi Metro Rail Limited.
- d. An amount of Rs. 5000/- (Rupees Five Thousand only) should be deposited along with bid as EMD in the form of Account Payee DD/Banker's Cheque drawn in favour of Kochi Metro Rail Limited payable at Ernakulam. The EMD of unsuccessful bidder will be returned to them after the award of the contract.
- e. The EMD should be submitted along with the tender in a sealed cover, superscribing thereon as such. Any bid not accompanied by Earnest Money Deposit will be rejected as non-responsive.
- f. No interest will be payable on the EMD amount.
- g. The price shall be quoted in the format of BOQ (Bill of Quantities) attached with this notice. If there is any discrepancy between figures and words the amount written in words shall prevail. Any arithmetical error will be corrected by KMRL.
- h. The bidder has to give the monthly charge for maintenance after the specified period of three months, which will not be considered for evaluation.

- i. All pages of the tender notice shall be verified, signed and stamped by the bidder and be attached with the bid.
- j. The company/firm should submit its profile, place of registration, EPF & ESIC registrations if applicable and bid on their letter head bearing full address, TIN/PAN, Service Tax Number, telephone number, mobile number along with self-attested copies of documentary proof as per PERFORMA I. Undertaking as per Performa II also to be submitted by the bidder.
- k. Bid validity of the tender is for six months

2.2 Evaluation of Bid

- a. The contract will be awarded to the bidder whose bid has been determined and found to be eligible and to be substantially responsive to the bid document and who has offered the lowest evaluated bid, provided further that the bidder has the capability and resources to effectively carry out the contract works.
- b. Overall total amount is considered for evaluation of the bids
- c. The rates given for works should be inclusive of all taxes including service tax, levies including loading/unloading etc. Nothing extra shall be paid over the rates quoted by the Contractors/Firm
- d. The contractor shall be responsible for payment of all taxes and other duties as per the rules in force from time to time and KMRL will not entertain any claim on account of the enhancement of tax and rates.

2.3 Award of contract

- a. The Bidder whose Bid has been accepted as lowest and eligible will be notified of the award by the Employer prior to expiration of the Bid validity period by email, telex or facsimile confirmed by letter. This letter (hereinafter and in the Conditions of Contract called the “Letter of Acceptance(LOA)”) will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the “Contract Price”).
- b. The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 3.
- c. In the LOA, the successful bidders will be notified to execute an agreement within the maximum period of 14 days from the date of receipt of same.
- d. Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

3. PERFORMANCE SECURITY

- a. The Contractor shall pay an amount equivalent to 5 % of Contract Amount, on acceptance of tender as Performance Security. This total amount can be furnished in the form of Bank Guarantee, valid till 7 months from the date of LOA (incl maintenance period of 3 months) or by way of demand draft to be drawn on any Commercial Bank in favor of Kochi Metro Rail Ltd. Payable at Ernakulam.
- b. In case of default on the part of the Contractor, to perform and observe any of the covenant, conditions and provisions herein contained, it shall be lawful for KMRL in its absolute discretion to forfeit the whole of the performance security or any part thereof without prejudice to any other right or remedy that may be available to it against the Contractor under this agreement, for such breach.
- c. The performance security shall not qualify for any interest and shall be available for adjustment against any claims of KMRL under the terms of this agreement against the contractor.
- d. The performance security or any part of it which is not adjusted as above will be refunded only after satisfactory fulfillment of the contract.

4. PAYMENT CONDITION

- a. The payment will be made within 15 days of the satisfactory completion of the work, as certified by the competent authority of KMRL on production of the bill in duplicate on the quoted rate as approved by KMRL; whereas the payment for the maintenance part will be made partly on satisfactory completion of the maintenance period as certified by the competent authority of KMRL. All payments will be made to the designated bank account of the bidder only.
- b. The payment will be released to the contractor on furnishing the bill after a certification from the Officer authorized by the KMRL in this behalf, that the trees has been found in well maintained condition for the given period. Statutory deductions as applicable will be made from the bills.
- c. The Employer shall retain 5% of the submitted bill amount from each payment due to the Contractor until satisfactory Completion of the whole of the Works.

5. PERIOD OF COMPLETION OF WORK:

- i) The work schedule should take up as per following timeline.

Sl No	Activity	Completion Time Line
1	250 Trees with tree guard	30 Days from LOA date
2	1000 Trees with Tree Guards	60 Days from LOA Date
3	Work Completion	90 days from the date of issue of LOA

- ii) **Completion Time line shall be guaranteed against the following liquidated damages clause: “Contract Price shall be reduced @0.5 % per day of delay or part thereof subject to a maximum of 5% of the total value.**

- iii) The Maintenance shall be for three months from the date of satisfactory Completion of the planting of trees as per the maintenance plan attached as Annexure I.

6. TECHNICAL SPECIFICATION

6.1 THE “WORK”

The scope and nature of the “WORK” to be provided by the Contractor shall include the following activities as per Bill of Quantities:

1. Mixing earth and sludge in the required proportion which includes:
 - a. Supplying and stacking of good earth at site including royalty and carriage up to 1 km
 - b. Supplying and stacking sludge/finesand at site including royalty and carriage up to 1 km.
 - c. Supplying and stacking at site dump manure from approved source, including carriage up to 1 km
2. Digging holes of size 60x60cm in ordinary soil and refilling the same with the earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts
3. Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded).
4. Supply of tree saplings at site of Height average 150 cm height
5. Planting of plants at site
6. Supply of 1.2m high and 45 cm diameter 16 gauge MS PVC coated weld mesh tree guard at site of 15x15 mm square holes which is additionally reinforced by 25x3 mm flat at top and bottom supported by three vertical 8mm rod legs of 40 cm height welded to bottom flat. Name plate of 1mm thick M.S sheet of size 450x150mm shall be welded to tree guard near the top height as per the approval from the concerned authorities for the KMRL sticker. MS flat supports, vertical legs and name board shall be painted with 2 coats of enamel paint as suggested by the KMRL engineer.
7. Fixing of tree guard at site with M15 concrete using 20mm metal as instructed by the Engineer in Charge.
8. Maintenance for three Months as per the Annexure I

6.2 PLANTS & PLANTING

- 6.2.1** The plants should be healthy and should possess a minimum height of 4-5ft while planting.
- 6.2.2** The planting should be done as per the standards and the procedure of working mentioned above.

7. TREE GUARD

- 7.1** Supply of round weld mesh tree guard as per specification and drawings. Refer Bill of Quantities for details.

8. SPECIAL CONDITIONS OF CONTRACT

- a. All equipment, tools etc required for proper maintenance of the trees/saplings shall be arranged by the bidder. No payment shall be made by KMRL for arranging such equipment, tools etc.
- b. Bidder is advised to visit the site where the work is to be performed, before quoting the price. The cost of visiting the site and collecting information for the purpose of the bid shall be to the bidder's account.
- c. The contractor will be responsible for the Watch and ward of the trees including tree guards till the completion of the contract.
- d. The newly planted tree plants should be watered properly at regular interval after proper hoeing and preparation of proper rings.
- e. KMRL will not be held responsible for any incidents or disputes that may occur with the contractor laborers or those engaged by the Contractor for work and no compensation will be paid by the KMRL on account of any such issues. The labour engaged by the contractor shall be paid in accordance with the law in force and no liability on any account will be to KMRL. The contractor shall fully indemnify KMRL for any claim, loss, injury or damage to person or property at site or in transit.
- f. If any of the plant is found to be defective at any time during the tenancy of the contract, the contractor shall replace the same with an identical plant at his own cost. For such plants the maintenance period of three months will start from the date of replacement only.
- g. The tree guard should be as per the specification mentioned and the retention pertaining to tree guard amount will be released after the defect liability period of six months only.
- h. The quoted rate will be taken for any additional scope identified by KMRL within the contract validity period.
- i. The contractor can quote the monthly maintenance charge for next three months after the contract bounded maintenance period of first three months. The same cannot be used for the financial evaluation.

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ANNEXURE I -MAINTENANCE PLAN		
SL NO	Operations	Durations
1	Fixing of tree guards	At the time of plantation
2	Irrigation/watering	As and when required. Plant should not be found withered.
3	Manuring, Fertilizer application, Ant terminate treatment, De weeding	During plantation and once in a month for next three months
4	Intercultural Operations	During plantation and once in every month within maintenance period of three months

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PERFORMA 1-AGENCY DETAILS

No.	DETAILS	
1	Name of Agency	
2	Address with telephone, e-mail, fax number & the name(s) of the contact person(s)	
3	Office Address of agency.	
4	Account Details along with Account Number, Bank Details, IFSC	
5	PAN /TIN No	
6	Relevant experience details. (certificate to be attached (Minimum 2 no.s))	
	Verification –The authorized person shall sign all the documents on the bottom, right hand side. Documents without signatures shall not be considered for evaluation purpose & the bidder may be disqualified on this account.	

**PERFORMA 1 :
AFFIDAVIT**

1. I the undersigned, do hereby certify that all the statement made in the required attachments are true and correct.
2. The undersigned also hereby certifies that our firm M/s.....
.....has not abandoned any work
in Kerala or, any other State
Government, Central Government nor any contract awarded to us for
such works have been rescinded, during last three years prior to the
date of this bid.
3. The undersigned hereby authorise(s) and request(s) any bank, person,
firm or corporation to furnish pertinent information deemed necessary
and requested by KMRL to verify this statement or regarding
my (our) competence and general reputation.
4. The undersigned understands and agrees that further qualifying
information may be requested, and agrees to furnish any such
information at the request of the Company.
5. The undersigned also hereby authorises KMRL and
their authorised representative to conduct any inquiries or investigation
to verify the statements, documents and information submitted in
connection with this application, and to seek clarification from our bankers
and clients regarding any financial and technical capability.

.....
(Signed by an Authorised Officer of the Firm)

.....
Title of Officer

.....
Name of Firm

.....
DATE

PERFORMA 3

UNDERTAKING FOR FIRM PERIOD

I, the undersigned do hereby undertake that our firm M/s.....

Agree to abide by this bid for a perioddays for the date fixed for receiving the same and it shall be binding on us and may be accepted at any time before the expiration of that period.

.....
(Signed by an Authorised Officer of the firm)

.....
(Title of Officer)

.....
(Name of Firm)

.....
(Date)

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BILL OF QUANTITY

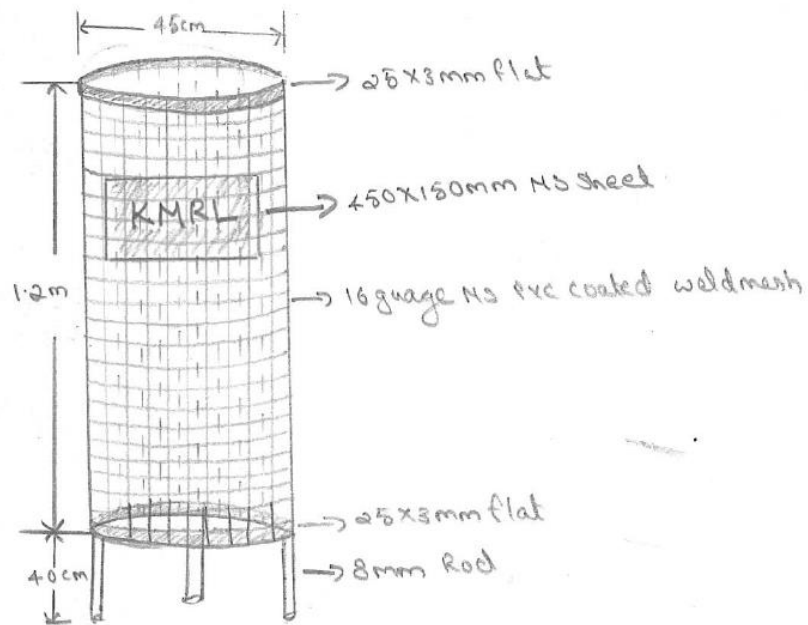
Tender Inviting Authority : Kochi Metro Rail Limited						
Name of Work : Planting and Maintenance of trees at Vallarpadam Container Terminal Road from Chainage 9140m to 14850m as a part of KMRL Afforestation and City Beautification Programme						
Tender Number : KMRL/PRJ/125/2013 VOL II/TEN 04-15						
Bidders Name :						
Item No	Description of Work	No/Qty	Unit	Rate to be entered by Bidder		Amount
				In Figures	In Words	
1	Supplying and stacking of good earth at site including royalty and carriage up to 1 km	136	Cum			
2	Supplying and stacking sludge/finesand at site including royalty and carriage up to 1 km	136	Cum			
3	Supplying and stacking at site dump manure from approved source, including carriage up to 1 km	68	Cum			
4	Mixing earth and sludge/manure in the required proportion of 40:40:20	340	Cum			
5	Digging holes in ordinary soil and refilling the same with the earth mixed with manure/sludge .	2000	Nos			
6	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling excluding cost of supplying earth and sludge or manure and mixing excluded.	340	Cum			
7	Supply of saplings at site of average height 150 cm					
7.1	Albizia Lebbek (Poovaka)	200	Nos			
7.2	Alstonia Scholaris (Chattim)	200	Nos			
7.3	Callophyllum inophyllum (Punna)	200	Nos			
7.4	Cassia Auriculata (Kani Konna)	200	Nos			
7.5	Feronia Elephantum (Vilavu)	200	Nos			
7.6	Lagerstroenia fiesreginae (Atampu)	200	Nos			
7.7	Misops Elengi (Elengi)	200	Nos			

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7.8	Saladora persica	200	Nos			
7.9	Mani Maruth	200	Nos			
7.10	Chembakom	50	Nos			
7.11	Plumeria (Pala)	50	Nos			
7.12	Lakshmi Tharu	50	Nos			
7.13	Mahagony	50	Nos			
8	Planting of plants	200	Nos			
9	Supply of 1.2m high and 45 cm diameter 16 gauge MS PVC coated weld mesh tree guard at site of 15x15 mm square holes which is additionally reinforced by 25x3 mm flat at top and bottom supported by three vertical 8mm rod legs of 40 cm height welded to bottom flat. Name plate of 1mm thick M.S sheet of size 450x150mm shall be welded to tree guard near the top height as per the approval from the concerned authorities for the KMRL sticker. MS flat supports, vertical legs and name board shall be painted with 2 coats of enamel paint as suggested by the engineer	2000	Nos			
10	Fixing of tree guard at site with M20 Concrete with minimum cement of 330Kg/cum to a depth of 20 cm using 20mm Metal as instructed by the engineer	2000	Nos			
11	Maintenance cost for three months including watering, de weeding, manuring, pruning, replacing of dried saplings with fresh one etc	3	Mon ths			
	TOTAL AMOUNT in figure					
	TOTAL AMOUNT in words					

Maintenance cost per month including watering, de weeding, manuring, pruning etc	In Figures	In Words

WELD MESH TREE GUARD TENTATIVE DRAWING



WELD MESH TREE GUARD TENTATIVE PHOTO



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