

TENDER DOCUMENT

For

**Maintenance free earthing system inclusive of all material” at 204 ICT Centres in schools of
Srikakulam District of Andhra Pradesh**

Due Date for Submission of Bids : 27.10.2014 at 3.00 PM
Date of Opening of Bids : 27.10.2014 at 3.30 PM



Issued By:

ERNET India
(An Autonomous Scientific Society under Department of Electronics & Information Technology)
Ministry of Communications & Information Technology
Government of India
10th Floor, Jeevan Prakash Building,
25, K.G. Marg, New Delhi-110 001

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ABOUT ERNET INDIA

ERNET India, an Autonomous Scientific Society under the Ministry of Communications and Information Technology, is a nodal network providing Internet and Intranet connectivity and other value added services to academic and research institutions in the country. It has set up a backbone connecting all metro cities in the country.

ERNET has star VSAT network operating on C-band of INSAT 3C satellite. The hub is located at Bangalore and VSATs at various institutions/organizations all over the country. It has DVB/FTDMA, SCPCDAMA based baseband to provide VSAT connectivity for Internet / Intranet related applications. ERNET architecture is based on industry standard TCP/IP protocol ensuring connectivity from heterogeneous computer systems and local area networks at user sites. At the application level, all applications conform to international standards such as SMTP, TELNET, FTP, RTP, NNTP and HTTP. The terrestrial backbone and the ERNET satellite Hub currently form a seamless network for applications like Internet, Intranet, distance learning digital library etc. The emphasis of ERNET is to widen its network and to provide Internet/Intranet access, ICT infrastructure to all education and research institutions in the country.

PROJECT BRIEF

ERNET India is setting up e-Learning ICT Centres at 204 schools in Srikakulam district, Andhra Pradesh. These e-Learning ICT centres will be equipped with 10 Desktop Computers, 01 Printer cum Scanner, 01 projector, Local Area Networking (LAN) for IT equipments, Electrical Wiring, Computer Furniture & 05 KVA Un-interrupted Power Supply (UPS), etc.

ERNET intends to provide Earthing system at these 204 ICT Centres. Thus, sealed tenders are invited from reputed suppliers/ contractors having at least 3 years experience in the Electrical field to provide "Maintenance free earthing system inclusive of all material" at these 204 ICT Centres in schools of Srikakulam District of Andhra Pradesh. The bidders are advised to study the tender document carefully. Submission of bids shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications.

SCOPE OF WORK:

1. It is intended to enter into a rate contract valid for a period of six month to carry out Earthing work in 204 schools (approx.) in Srikakulam District of Andhra Pradesh. The list of schools in Srikakulam District is given at *Annexure-III*. The number and names of schools may vary.
2. Proper maintenance free earthing as per laid down specifications Annexure-I to ensure ground to neutral voltage of less than 2 volts close to ICT Centres. The earthing system shall be integrated with electricity system provided at ICT Centres, the acceptable Earth Resistance at earth busbar will not be more than 2ohm.
3. The bidders/suppliers/contractor shall install and maintain an effective low resistance earthing system (i.e. less than 2 volts) for efficiently dissipation of heavy fault currents and electrical surges, both in magnitude and duration, to protect the damage of IT equipment installed in ICT centres and personnel who work within the area from dangerous electric shock.

GENERAL CONDITIONS

1. Sale of Tender

Tender document can be purchased from ERNET India, New Delhi during **08.10.2014 to 15.10.2014 between 3.00 PM to 4.00 PM** every day except for Saturdays, Sundays and Public Holidays, on payment of **Rs. 2000.00 (Two thousand only)** in the form of Demand Draft or Banker's Cheque drawn on/issued by any Nationalized/Scheduled Indian Bank in favor of ERNET India, payable at New Delhi.



The Tender Document can also be downloaded from www.ernet.in. In such case, an amount of Rs. 2,000/- in the form of Demand Draft/Bankers' cheque drawn in favor of "ERNET India, payable at New Delhi" would be required to be furnished along with the Part-I of the bid.

2. Clarifications regarding tender document:

- i) The prospective bidders requiring any clarification about the contents detailed in the Tender document may notify ERNET India in writing (**Through letters by hand only**) addressed to **Sh. B.B. Tiwari, Director ERNET India**. Clarification sought by the vendors along with ERNET's response will be posted on website www.ernet.in. Accordingly, all the vendors must refer the above website for clarification, if any, before submission of their bids on the due date/time. Queries/Clarifications will be received and responded as per schedule detailed below:

- Issue of Tender Document : 08.10.2014 to 15.10.2014 (3.00 p.m. to 4.00 p.m.)
- Receipt of Queries : Up to 20.10.2014 by 3.00 p.m.
- Response to Queries* : 22.10.2014
- Opening of Bids : 27.10.2014 at 3.30 p.m.

* ERNET response to queries would be uploaded on ERNET Website only.

Therefore, all the bidders are requested to refer ERNET's website for the ERNET response to the queries. Bidders are also advised to refer ERNET's website for any further development with regard to the tender before submission of their bids.

- ii) If any bidder wishes to make any complaint/allegations w. r. t tender, bidder may submit the same along with the affidavit on stamp paper of Rs 10.00 as an proof in support of all complaint/allegation

Important Note: The queries will be received only by hand within specified period as scheduled above; no other mode of communication would be accepted. Any communication after due date and time shall not be entertained in any manner.

3. Quotations should be submitted in single sealed bid consisting of two separate parts i.e. Part-I (Technical Bid) and Part II (Financial Bid):

Part I, First cover indicating "COVER FOR TECHNICAL BID", should contain:

- (i) Detailed technical specification of the system/services offered along with literature, pamphlets, drawing and commercial terms etc. of the solution offered. Price column in this cover should be kept blank. EARNEST MONEY DEPOSIT (EMD) should also be submitted in this cover.
- (ii) Compliance statement in the form of "complied or not complied" should be given against each statement and specification of the tender documents.
- (iii) Bidder's company profile, financial status, valid Income Tax Clearance Certificate (ITCC) and last three financial years' balance sheets as applicable. The bidder should be profit making company in last three financial years i.e. 2011-12, 2012-13 & 2013-2014. Documentary proof duly certified by the Chartered Accountant must be enclosed reflecting figures for each individual financial year turnover and profit.
- (iv) Interested bidder's/suppliers/contractor submitting the bids shall pay the tender document fee of Rs.2000.00 (Two thousand only) in the form of Demand Draft or Banker's Cheque drawn on/issued by any Nationalized/Scheduled Indian Bank in favour of ERNET India, payable at New Delhi. The tender fee would be required to be furnished along with the Part-I of the bid in addition to EMD.

PartII, Second cover indicating "COVER FOR FINANCIAL BID", should contain:

- (i) The price details of bill of material specified in Technical Part of the bid. Rates/cost to be quoted as per Annexure-II only. The rates should be quoted in Indian Rupees for delivery at respective school locations. All prices shall be fixed and shall not be subject to escalation of any description.



(ii) Tenders once submitted shall be final and no amendment shall be permitted.

Both the covers i.e. Part-I (Technical Bid) and Part-II (Financial Bid) should first be sealed separately, and then both the covers should be kept in a single sealed bigger cover bearing the following inscription:

“Tender Enquiry No.: EI-D-Tech055/10/2014-PD&OA”

Bid for “Maintenance free earthing system inclusive of all material” at 204 ICT Centres in schools of Srikakulam District of Andhra Pradesh

This cover should be submitted to the **“B.B. Tiwari, Director, ERNET India, 10th Floor, Jeevan Prakash Building, 25, Kasturba Gandhi Marg, New Delhi-110 001”** before due date and time. Bids received after the due date & time are liable to be rejected.

4. Bids should be valid for a minimum period of 180 days after the due date.
5. Govt. Levies like sales tax, VAT etc. shall be paid at actual rates applicable on the date of delivery. These rates should be shown separately accordingly giving the basic price, Sales Tax, VAT etc.
6. Please give the Registration number of the firm along with the LST/CST No. allotted by the Sales Tax authorities in your quotation.
7. Bidder shall sign all pages of terms & conditions, solution architecture and quotation along with quotation. All changes, alterations, corrections in the bid shall be signed in full by the person(s) signing the bid with date.
8. The bidder shall quote the rates in English language and international numerals. The rate shall be in whole numbers. These rates shall be entered in figures as well as in words. In the event of the order being awarded, the language of all services, manuals, instructions, technical documentation etc., provided for under this contract, will be English. In case of any discrepancy between rates mentioned in figures and words, the latter shall prevail.
9. Transfer of Tender Documents by one bidder to another is not permissible. Similarly transfer of tenders submitted by one Bidder, is not permissible.
10. ERNET India may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
11. Any attempt of negotiation direct or indirect on the part of the bid with the authority to whom he has submitted the bid or authority who is competent finally to accept it after he has submitted his bid or any endeavor to secure any interest for an actual or prospective bidder or to influence by any means the acceptance of a particular bid will render the bid liable to be excluded from consideration.
12. **Inspection**
ERNET India or its representative(s) or school authority shall have the right, if required, to inspect or to test the earthing/items to confirm their conformity to the ordered specifications. The supplier shall provide all reasonable facilities and assistance to the inspector at no charge to ERNET India. In case any inspected or tested items/earthing fail to conform to the specifications, ERNET India may reject them and supplier shall rework to meet specification required free of cost to ERNET India.
13. **Earnest Money Deposit**
 - (a) Each quotation must be accompanied by Earnest Money Deposit of amount of Rs. 50,000/- (Rupees Fifty Thousand Only) in the form of Demand Draft/Pay Order/Bank Guarantee of any Nationalized or Scheduled Bank taken in the name of ERNET India, New Delhi. Bank Guarantee should be valid minimum for a period of 225 days from the original due date of the quotation. **Quotations received without Earnest Money Deposit are liable to be rejected.**



- (b) Earnest Money is liable to be forfeited and bid is liable to be rejected, if the bidder withdraw or amends, impairs or derogates from the bid in any respect within the period of validity of the bid.
- (c) Earnest Money is liable to be forfeited, if the bidder submits fake or forged documents or fake claims, fake reports, false undertaking etc in the bid.
- (d) The earnest money of all the unsuccessful bidders will be returned as early as possible after the expiration of the period of the bid validity but no later than 30 days of the issue of the purchase order. No interest will be payable by the Purchaser on the Earnest Money Deposit.
- (e) If the successful bidder fails to furnish the Performance Security (refer para 14) within 15 days of the placement of the purchase order, the earnest money shall be liable to be forfeited by the purchaser.
- (f) The Earnest Money of successful bidder shall be returned after furnishing of Performance Security

14. Performance Security

The successful bidder shall submit a Performance Security of 10% of the cost of the purchase order valid for the duration of **warranty period (02 years)** within 15 days of the placement of purchase order. The Performance Security may be in the form of Demand Draft/Pay Order/Bank Guarantee of any Nationalized or Scheduled bank. In case supplier fails to deliver the work within delivery period or provide satisfactory service within the warranty period, the Performance Security submitted by the firm is liable to be forfeited. Performance Security shall be released immediately after the onsite free comprehensive warranty for twoyear after completion of complete work. No interest will be payable by ERNET India on the Performance Security.

15. Guarantee/Warranty

The supplier shall be responsible for complete supply, installation & commissioning of the earthing & bonding system. The warranty of such system shall be **02 Year** from date of commissioning. During this period, any failure of earthing system due to improper materials & bad workmanship shall be attended free of cost by the supplier.

16. Delivery Period

- The delivery/work at 204 sites is required to be completed within **3 months** of placement of the purchase order. Delivery report countersigned by user/Head of the Institution/Principal/ERNET representative shall be submitted within 10 days from Date of Delivery. Any delay by the supplier in the performance of delivery of items shall render the supplier liable to any or all of the following sanctions-forfeiture of its Earnest Money Deposit, imposition of liquidated damage as per para 17 below or/and cancellation of the purchase order for default.
- Any delay in the delivery of work/installation would be reported to ERNET India and specific prior approval for delay with justification would be taken on case-to-case basis.

17. Force Majeure

Neither Vendor nor ERNET India shall be liable for any delay in or failure of discharging respective obligations under this tender caused by occurrence beyond their control, as the case may be, including but not limited to fires, floods, explosions, power shortage, failure / breakdown of UPS / computer, acts of GOD, hostility, act of public enemy, wars, insurrections, riots, strikes, lockouts, sabotage. Either parties shall promptly but not later than 10 days of the commencement thereof notify the order in writing of such contingency and prove that such is beyond the control and affects the implementation of these tender conditions adversely and materially. If such contingency continues beyond 30 days both parties, agree to discuss and agree upon an equitable solution

18. Liquidated Damages

If the supplier fails to deliver work, or do not complete the installation within the period specified in the purchase order, ERNET India shall without prejudice to its other remedies, deduct as liquidated damage 1 per cent of the price of the delayed goods for every week subjected to maximum of 10% . If the company failed to complete the installation of entire project and declared defaulted, the company shall be black listed for future business with ERNET India or disqualified for the consideration of their bids in future.

19. Rejection & Return of Tender

ERNET India, reserves the right to reject any or part of the Tender without assigning any reason. The documentation submitted by bidders shall not be returned unless the bidder explicitly states this request at the time of submission of their Tender. ERNET also reserves the right at its sole discretion, not to award any order under the Tender called. ERNET shall not pay any costs incurred in the preparation and submission of any tender. Also tender of the bidder who has defaulted in execution of previous purchase order in implementation of such project will be rejected.

If the bidder gives wrong information in his Tender, ERNET reserves the right to reject such Tender at any stage or to cancel the Contract, if awarded, and forfeit the Earnest Money besides other remedies. Canvassing in any form in connection with the Tender is strictly prohibited and the Tenders submitted by the Contractors who resort to canvassing are liable for rejection.

20. Modification and Withdrawal of Bids

The bidder may modify or withdraw its bid after the bids submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the last date prescribed for receipt of bids.

The bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of the tender. A withdrawal notice may also be sent by fax or but followed by a signed confirmation copy, post marked not later than the last date for receipt of bids. No bid shall be modified subsequent to the last date and time for receipt of bids.

No bid shall be withdrawn in the interval between the last date for receipt of bids and the expiry of the bid validity period specified by the bidder in the Bid. Withdrawal of a bid during this interval may result in the bidder's forfeiture of its bid EMD.

21. Payment Terms

90% payment shall be released against execution, commissioning and submission of commissioning reports of complete earthing work and balance 10% after completion of warranty period or 100% on installation if the firm submits the Bank Guarantee of the amount equivalent to 10%, which should be valid for the period of warranty (02 Year) as well as receipt of pre-receipted bill in triplicate. Pro-rata payment will be made or considered after commissioning and acceptance of earthing per scope of work in a group of 41 sites / locations/schools.

The BGs mentioned in payment term above are in addition to Performance Security mentioned at Sl. No. 14 of the tender above.

22. Evaluation of bids & Selection Criteria

The bids received and accepted will be evaluated by Evaluation Committee framed by ERNET, to ascertain the best and lowest evaluated Tender in the interest of Project for the complete scope of the proposal. The bids qualifying all the criteria of one stage will be preceded to next stage for further evaluation as per sequence mentioned below. In case any bid is unable to qualify the criteria specified at any stage, it would be rejected and will not be preceded for further evaluation.

Stage-1: Evaluation at Opening of bids

Stage-2: Technical Evaluation of bids

Stage-3: Commercial Evaluation of bids

Stage-1: Evaluation at opening of Bids

- The bids (as per Sl. No.2 above, Part-I Technical bid) received will be opened in presence of those Bidders or their authorized representatives who present themselves at the time of opening of the Tender. The following evaluation criteria will be carried out, in case any of the mentioned criteria is not complied in the bid submitted by the bidder's, the bids of respective bidder would not be preceded to next stage for technical evaluation and will be considered as rejected:
- Tender document must consist of EMD, and tender fee, in absence of this bids would be rejected immediately.



- Complete tender document, all the terms & conditions, specification of items mentioned in tender shall be duly signed & stamped by authorized person assigned by the firm. The bid should be properly binded, no loose paper should be present in bid.

Stage-2: Technical Evaluation of bids: The bids qualifying the stage -1 mentioned above will be considered for technical evaluation. The following evaluation criteria would be carried out.

- Compliance statement in the form of "complied or not complied" should be given against each statement and specification of the tender document. Tender document should be supported by authentic documents.
- Each page of the Bid and cuttings/corrections shall be duly signed and stamped by the Bidder. Failure to comply with this requirement may result in the Bid being invalidated.
- Bidder's company profile, financial status, valid Income Tax Clearance Certificate (ITCC) must be enclosed with turnover of last three financial year certified by Chartered Accountant.
- Technical evaluation will done by comparing the earthing solution offered by prospective bidders with the specification asked in the tender document. All the specification must be in compliance as mentioned in tender document.
- The bids found technically acceptable will be considered for next stage of commercial evaluation

Stage-3: Commercial Evaluation of bids: Bids qualifying Stage 2 will be considered for commercial evaluation.

- The cost comparison will be made of the solution as per specified format Annexure-II. The bidder with lowest price shall be empanelled for the execution of work.

23. Cancellation of tender

ERNET India reserves the right to accept or reject any bid or cancel or modify the requirement of the bid proceedings at any stage without assigning any reason whatsoever. ERNET India will not be under any obligation to give clarification for doing the aforementioned.

24. Indemnification

The selected bidder shall indemnify the ERNET India/End-user departments against all third party claims of infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied items and related services or any part thereof. ERNET India/End-user department stand indemnified from any claims that the bidder's manpower may opt to have towards the discharge of their duties in the fulfilment of the purchase orders. ERNET India/End-user department also stand indemnified from any compensation arising out of accidental loss of life or injury sustained by the bidder's manpower while discharging their duty towards fulfillment of the rate contract and purchase orders. The bidder shall solely responsible for any damage, loss or injury which may occur to any property or to any person by or arising out the execution of the works or temporary works or in carrying out of the contract otherwise than due to the matters referred to in this agreement hereinbefore. The bidder would ensure for observance of all labor and other laws applicable in the matter and shall indemnify and keep indemnified the ERNET/its customers against the effect of non-observance of any such laws.

25. Arbitration and Laws

Except, where otherwise provided for in the tender, all questions and disputes relating to the meeting of the specifications, designs, drawings, and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be settled within thirty (30) days (or such longer period as may be mutually agreed upon) from the date that either party notifies in writing that such dispute or disagreement exists, shall be settled under the Rules of India Arbitration and Conciliation Act, 1996. The venue of Arbitration shall be New Delhi, India. The arbitration resolution shall be final and binding upon the parties and

judgment may be entered thereon, upon the application of either party, by any court having jurisdiction. This tender shall be governed by the Indian laws.

26. Termination for Default:

- i. Default is said to have occurred:
 - a. If the bidder fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by ERNET India.
 - b. If the bidder fails to perform any other obligation(s) under the empanelment
- ii. If the bidder, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from ERNET India (or takes longer period in spite of what ERNET India may authorize in writing), ERNET India may terminate the empanelment / purchase order in whole or in part. In addition to above, ERNET India may at its discretion also take the following actions:

ERNET India may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting bidder shall be liable to compensate ERNET India for any extra expenditure involved towards goods and services to complete the scope of work in totality or 10% of the total value of purchase order as cancellation charges whichever is higher.

- iii. ERNET India may at any time terminate the purchase order / empanelment by giving one month written notice to the bidder, without any compensation to the bidder, if the bidder becomes bankrupt or otherwise insolvent.

Yours faithfully,



**(Bhupal Singh)
Registrar & CPO**

Annexure-I

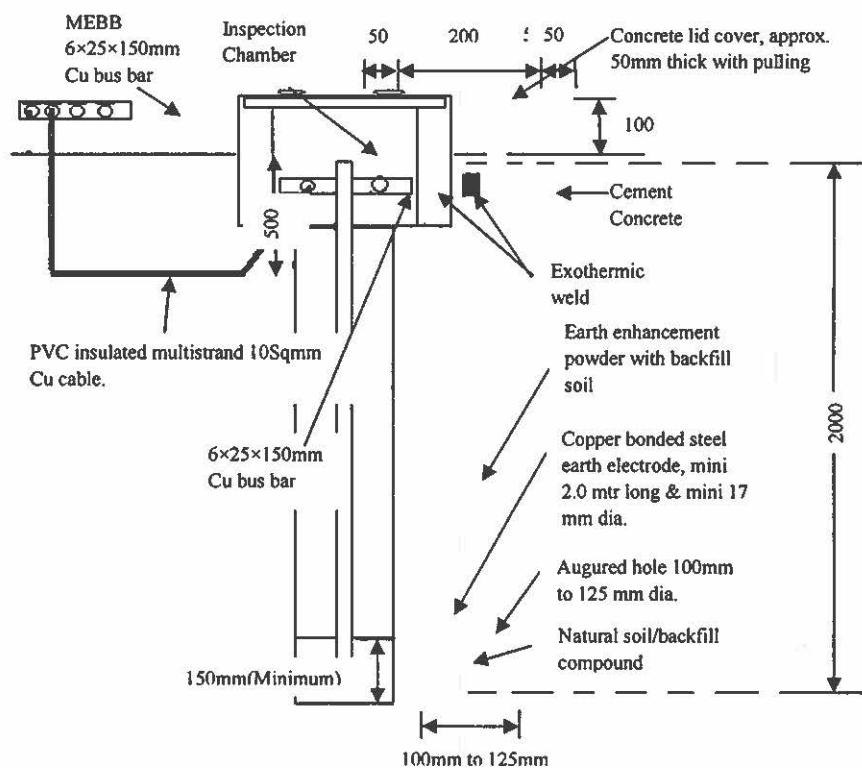
Technical Specification of Earthing and Bonding system

S.No	Items	Specification
1	Earth Electrode	<ul style="list-style-type: none"> The earth electrode shall be made of high tensile low carbon steel circular rods, molecularly bonded with copper on outer surface to meet the relevant Indian Standards and shall be of the approved make and design. The earth electrode shall conform to Indian Standards and of minimum 17.0mm diameter and minimum 2.0mtrs. long. The minimum copper bonding thickness shall be of 250 microns. Marking: Indian Standards marking, Manufacturer's name or trade name, length, diameter, catalogue number must be punched on every earth electrode. Earth electrode can be visually inspected, checked for dimensions and thickness of copper coating using micron gauge. The supplier shall arrange for such inspection at the time of supply, if so desired.
2	Earth Enhancement material	<p>Earth enhancement material:</p> <ul style="list-style-type: none"> Shall consist of Graphite and Portland cement. Bentonite content shall be negligible. Shall have high conductivity and humidity retention capability. Shall be non-corrosive in nature having low water solubility but highly hygroscopic. Shall have resistivity of less than 2 ohms-meter and suitable for installation in dry form or in a slurry form. Shall not depend on the continuous presence of water to maintain its conductivity. Marking: The Earth enhancement material shall be supplied in sealed, moisture proof bags. These bags shall be marked with Manufacturer's name or trade name, quantity etc.
3	Backfill material	The sieved excavated soil may be used as a backfill around the electrode. Material like sand, salt, coke breeze, cinders and ash shall not be used because of its acidic and corrosive nature.
4	Earth Pit	Refer typical installation drawing and following sub items
4(i)	Construction of unit earth pit:	<ul style="list-style-type: none"> A hole of 100mm to 125mm dia shall be augured to a depth of about 2.5 meters. The earth electrode shall be placed into this hole. By penetrating it into the soil gently driving on the top of the rod, so that min. 150 mm of the electrode shall be inserted in the natural soil/present soil. Earth enhancement material (minimum approx. 20 kg) shall be filled into the augured hole in slurry form and allowed to set. After the material gets set, the diameter of the composite structure (earth electrode + earth enhancement material) shall be of minimum 100mm dia covering entire length of the hole. Remaining portion of the hole shall be covered by backfill soil/material. A copper strip of 150mm×25mm×6mm shall be exothermically welded to main earth electrode for taking the connection to the main equi-potential earth bus bar/ICT Centre. Multi-strand single core PVC insulated 10 Sqmm copper cable
4(ii)	Measurement of Earth resistance	<p>The earth resistance shall be measured at the Main Equi-potential Earth Busbar (MEEB) or at terminated end in ICT Centre/schools lab.</p> <p>The maintenance free earthing shall ensure ground to neutral voltage of less than 2 volts close to ICT Centres. The earthing system shall be integrated with electricity system provided terminated at ICT Centers, the acceptable Earth Resistance at earth busbar will not be more than 2ohm.</p>
4(iii)	Inspection Chamber	A 300×300×300 mm (inside dimension) box (concrete/Iron) with smooth finish shall be provided on the top of the pit. A concrete/Iron lid, painted black, with



		<p>pulling hooks, shall be provided to cover the earth pit.</p> <ul style="list-style-type: none"> Care shall be taken regarding level of the floor surrounding the earth so that the connector is not too deep in the masonry or projecting out of it. On backside of the cover, date of the testing and average resistance value shall be written with yellow paint on black background.
5	Materials and dimensions	<p>i. Maintenance Free Earthing, Earthing Electrode –2.0mtr length , 17.0mm dia copper Earth Enhancement Material 20kgs</p> <p>ii. Providing 150mm×25mm×6mm copper strip – to terminate Earth Rod</p> <p>iii. Providing 150mm×25mm×6mm copper strip (MEEB)</p> <p>iv. Terminate Earth Rod to MEEB using copper lugs with stainless steel nut and bolts and 10Sq.mm Multi- strand single core PVC insulated copper cable</p>
<p><i>Note: All materials and equipment shall confirm to the relevant Indian Standards and shall be of the approved make and design.</i></p>		

The complete layout drawing of earthing& bonding system with dimensions:-



Annexure-II

Proforma for Rates for Maintenance free earthing system inclusive of all material at 204 Schools in Srikakulam, Andhra Pradesh.

Sl.	Item	Qty (A)	Unit Price (B)	Total Price (C) $C=A*B$	Sales Tax / VAT (D)	Service Tax(E)	Total Cost (F) $F=C+D+E$
1.	Maintenance free earthing system inclusive of all material as per specification & diagram at Annexure-I.	204					
2.	Earthing AMC for the period of 01 Year	204					
3.	Grand Total						

Note:

1. All the rates should be quoted in Indian Rupees.
2. Cost comparison will be made strictly as per above table for declaration of L1 (Lowest) bidder.




List of 204 Schools of Srikakulam

Annexure - III

SL NO	DISTRICT NAME	SCHOOL NAME	BLOCK NAME	VILLAGE NAME
1	SRIKAKULAM	ZPHS JR PURAM	RANASTHALAM	JAGANNADHARAJA PURAM
2	SRIKAKULAM	ZPHS M.SARIYAPALLI	KANCHILI	MATHAMSARYAPALLI
3	SRIKAKULAM	GTWAHS HADDABHANGI	SEETHAMPETA	HADDABHANGI
4	SRIKAKULAM	ZPHS LODDAPUTTI	ICHAPURAM	LODDAPUTTI
5	SRIKAKULAM	A.P. TW E I R. SCHOOL (GI	SEETHAMPETA	SEETHAMPETA
6	SRIKAKULAM	ZPHS RAGOLU	SRIKAKULAM	RAGOLU
7	SRIKAKULAM	ZPHS SIRIPURAM	MANDASA	SIRIPURAM
8	SRIKAKULAM	APTWRs BOYS PEDDAMADI	MELIAPUTTI	PEDDAMADI
9	SRIKAKULAM	APTWRs SANTHAMALLI	SEETHAMPETA	MALLI
10	SRIKAKULAM	APTWRs BOYS	SEETHAMPETA	SEETHAMPETA
11	SRIKAKULAM	ZPHS DONKURU	ICHAPURAM	BURJAPADU
12	SRIKAKULAM	APSWRS MADDUVALASA	VANGARA	MADDUVALASA
13	SRIKAKULAM	GTWAGHS PEDDAMADI	MELIAPUTTI	PEDDAMADI
14	SRIKAKULAM	APSWRS BHAMINI	BHAMINI	BHAMANI
15	SRIKAKULAM	ZPHS KHURIGAM	KOTTURU	KHURIGAM
16	SRIKAKULAM	ZPHS SRIKURMAM (GIRLS)	GARA	SRIKURMAM
17	SRIKAKULAM	APSWRS(G) ETCHERLA	ETCHERLA	ETCHERLA
18	SRIKAKULAM	APSWRS PATHAPATNAM	PATHAPATNAM	PATHAPATNAM
19	SRIKAKULAM	ZPHS KARAJADA	MELIAPUTTI	KARAJADA
20	SRIKAKULAM	ZPHS(GIRLS) PALAKONDA	PALAKONDA	PALAKONDA (PT)
21	SRIKAKULAM	ZPHS JARJANGI	KOTABOMMALI	JARJANGI
22	SRIKAKULAM	ZPHS RENTIKOTA	PALASA	RENTIKOTA
23	SRIKAKULAM	ZPHS METTAVALASA	LAVERU	BUDATHAVALASA
24	SRIKAKULAM	ZPHS BURJA	BURJA	BURJA
25	SRIKAKULAM	ZPHS B.R.C.PURAM	SOMPETA	BESIRAMACHANDRAPURAM
26	SRIKAKULAM	ZPHS MUDDADA	ETCHERLA	MUDDADA
27	SRIKAKULAM	ZPHS MANDAVAKURITI	SANTHAKAVITI	MANDAVAKURITI
28	SRIKAKULAM	ZPHS OV PETA	BURJA	VOPIVADAVENKAMPETA
29	SRIKAKULAM	ZPHS BIRLANGI	ICHAPURAM	BIRLANGI



30	SRIKAKULAM	ZPHS GOKARNAPURAM	KANCHILI	GOKARNAPURAM
31	SRIKAKULAM	ZPHS MUTYALAPETA	KAVITI	KAPASUKUDDI
32	SRIKAKULAM	ZPHS FAREEDUPETA	ETCHERLA	SHERMAHAMMADPURAM
33	SRIKAKULAM	GTWAHS BANDAPALLE	MELIAPUTTI	BANDLAPALLE
34	SRIKAKULAM	ZPHS GULUMURU	HIRAMANDALAM	GULUMURU
35	SRIKAKULAM	ZPHS SANTHAVURITY	G.SIGADAM	SANTHAVURITY
36	SRIKAKULAM	ZPHS PEDDADIMILI	BHAMINI	PEDDADIMILI
37	SRIKAKULAM	ZPHS LINGALAVALASA	R.AMADALAVALASA	LINGALA VALASA
38	SRIKAKULAM	ZPHS KORNI	GARA	KORNI
39	SRIKAKULAM	ZPHS KOTTAPALLI	KOTABOMMALI	KOTHAPALLE
40	SRIKAKULAM	ZPHS VAJRAPUKOTTURU	VAJRAPUKOTTURU	VAJRAPUKOTTURU
41	SRIKAKULAM	ZPHS DEVARAVALASA	G.SIGADAM	DEVARAVALASA
42	SRIKAKULAM	ZPHS KOTTAPETA	ETCHERLA	MUDDADA
43	SRIKAKULAM	ZPHS HARICHANDRAPURAM	KOTABOMMALI	HARICHANDRAPURAM
44	SRIKAKULAM	ZPHS D.MATHILESAM	ETCHERLA	DHARMAVARAM
45	SRIKAKULAM	ZPHS KAMBAKAYA	NARASANNAPETA	KAMBAKAYA
46	SRIKAKULAM	ZPHS PEDDAMURAHARIPURAM	VAJRAPUKOTTURU	PEDDAMURAHARIPURAM
47	SRIKAKULAM	ZPHS SILAGAMSINGIVALASA	SRIKAKULAM	SILAGAMSINGIVALASA
48	SRIKAKULAM	ZPHS G.R.PURAM	MANDASA	VEERAGUNNAMAPURAM
49	SRIKAKULAM	ZPHS BATHUVA	G.SIGADAM	BATHUVA
50	SRIKAKULAM	ZPHS GUTTAVALLI	BURJA	GUTTAVALLI
51	SRIKAKULAM	ZPHS BHASURU	PALAKONDA	BHASURU
52	SRIKAKULAM	ZPHS KARTHALIPEM	SOMPETA	KARTHALIPEM
53	SRIKAKULAM	ZPHS KUSUMPURAM	KAVITI	KUSUMPURAM
54	SRIKAKULAM	ZPHS BHAMINI	BHAMINI	BHAMANI
55	SRIKAKULAM	GTWAGHS BUDAMBO	MANDASA	SINGUPURAM
56	SRIKAKULAM	ZPHS SAHALALAPUTTUGA	KAVITI	SILAGAM
57	SRIKAKULAM	ZPHS SONDIPUDI	MANDASA	SONDIPUDI
58	SRIKAKULAM	ZPHS SARUBUJJILI	SARUBUJJILI	SARUBUJJILI
59	SRIKAKULAM	ZPHS NEELANAGARAM	VEERAAGHATTAM	NEELANAGARAM
60	SRIKAKULAM	GTWAHS JAYAPURAM	NANDIGAM	JAYAPURAM

61	SRIKAKULAM	ZPHS VOPPANGI	SRIKAKULAM	VOPPANGI
62	SRIKAKULAM	ZPHS PATHAKOJJIRIA	KAVITI	KOJJIRIA
63	SRIKAKULAM	ZPHS THOLAPI	PONDURU	THOLAPI
64	SRIKAKULAM	ZPHS KAKITAPALLE	SARUBUJILI	CHINNAKAKITAPALLE
65	SRIKAKULAM	ZPHS ROMPIVALASA	PATHAPATNAM	ROMPIVALASA
66	SRIKAKULAM	ZPHS TALAGAM	TEKKALI	TALAGAM
67	SRIKAKULAM	ZPHS PALAVALASA	SOMPETA	PALAVALASA
68	SRIKAKULAM	ZPHS NARASINGAPALLI	TEKKALI	NARASINGASPALLI
69	SRIKAKULAM	ZPHS YERRAMUKKAM	SOMPETA	SIRIMAMIDI
70	SRIKAKULAM	GTWHS CHINABAGGA	SEETHAMPETA	MARRIPADU
71	SRIKAKULAM	KGBV VANGARA	VANGARA	VANGARA
72	SRIKAKULAM	KGBV SANTHAKAVITY	SANTHAKAVITI	SANTHAKAVITI
73	SRIKAKULAM	KGBV G.SIGADAM	G.SIGADAM	GANGUVARISIGADAM
74	SRIKAKULAM	ZPHS KRISHNAPURAM	MANDASA	SIRIPURAM
75	SRIKAKULAM	ZPHS BETHALAPURAM	MANDASA	BETHALAPURAM
76	SRIKAKULAM	ZPHS KATHULAKAVITI	VEERAAGHATTAM	KATHULAKAVITI
77	SRIKAKULAM	GTWAHS BOMMIKA	PATHAPATNAM	HARIDWARAM
78	SRIKAKULAM	ZPHS TETTANGI	VEERAAGHATTAM	TETTANGI
79	SRIKAKULAM	KGBV RAJAM	RAJAM	RAJAM
80	SRIKAKULAM	K.G.B.V SCHOOL PATAPATNAM	PATHAPATNAM	PATHAPATNAM
81	SRIKAKULAM	ZPHS PANASALAVALASA	R.AMADALAVALASA	PANASALA VALASA
82	SRIKAKULAM	KGBV SANTHABOMMALI	SANTHABOMMALI	BORUBHADRA
83	SRIKAKULAM	ZPHS BURJAPADU	ICHAPURAM	BURJAPADU
84	SRIKAKULAM	ZPHS PEDDAGANGALLAPETA	SRIKAKULAM	MOFASBANDAR
85	SRIKAKULAM	ZPHS BODDURU	SANTHAKAVITI	BODDURU
86	SRIKAKULAM	ZPHS BAIRISARANGAPURAM	MANDASA	BAIRISARANGAPURAM
87	SRIKAKULAM	ZPHS MARUVADA	VANGARA	MARUVADA
88	SRIKAKULAM	ZPHS PEDDADUGAM	JALUMURU	PEDADUGAM
89	SRIKAKULAM	ZPHS LANKAPETA	RANASTHALAM	RAVADA
90	SRIKAKULAM	ZPHS PEDDAPADMAPURAM	MELIAPUTTI	PEDDAPADMAPURAM



91	SRIKAKULAM	ZPHS MAMIDIPALLI	SANTHAKAVITI	MAMIDIPALLI
92	SRIKAKULAM	Z.P.High School(Girls) NARASANNAPETA	NARASANNAPETA	NARASANNAPETA (PT)
93	SRIKAKULAM	ZPHS KOTHAKUNKAM	LAVERU	KOTHA KUNKUM
94	SRIKAKULAM	ZPHS DOKULAPADU	VAJRAPUKOTTURU	DOKULAPADU
95	SRIKAKULAM	ZPHS DEVUNALTHADA	VAJRAPUKOTTURU	DEVUNALTADA
96	SRIKAKULAM	ZPHS NARUVA	RANASTHALAM	NARUVA
97	SRIKAKULAM	ZPHS PURSHOTTAPURAM	SARUBUJILI	PURUSHOTTAPURAM
98	SRIKAKULAM	K G B V MELIAPUTTI	MELIAPUTTI	MEILAPUTTI
99	SRIKAKULAM	ZPHS LAKHAM DIDDI	KOTABOMMALI	LAKKAMDIDDI
100	SRIKAKULAM	GTWA HS GIRLS PATTULOGAM	MANDASA	KONDALOGAM
101	SRIKAKULAM	KGBV DEVUDALA	R.AMADALAVALASA	DEVUDALA
102	SRIKAKULAM	ZPHS WALTAIR	SANTHAKAVITI	VALT AIR
103	SRIKAKULAM	ZPHS BORIGIVALASA	NARASANNAPETA	GOPALAPENTA
104	SRIKAKULAM	GTWAUP PUTHIKAVALASA	SEETHAMPETA	TUMBALI
105	SRIKAKULAM	GTWAHS POOTHIKAVALASA	SEETHAMPETA	MARRIPADU
106	SRIKAKULAM	ZPHS KUNTIBHADRA	KOTTURU	SIRUSUVADA
107	SRIKAKULAM	KGBV SEETHAMPETA	SEETHAMPETA	SEETHAMPETA
108	SRIKAKULAM	ZPHS RAVIVALASA	TEKKALI	RAVIVALASA
109	SRIKAKULAM	ZPHS MUNDALA	KANCHILI	MUNDALA
110	SRIKAKULAM	GTWAHS SAMBHAM	SEETHAMPETA	SAMBHAM
111	SRIKAKULAM	ZPHS BENDI	VAJRAPUKOTTURU	BENDI
112	SRIKAKULAM	ZPHS LINGALAVALASA	TEKKALI	LINGALAVALASA
113	SRIKAKULAM	ZPHS BRAHMANATARLA	PALASA	BRAHMANATARLA
114	SRIKAKULAM	ZPHS PONNADA	ETCHERLA	PONNADA
115	SRIKAKULAM	ZPHS DHARMAVARAM	ETCHERLA	DHARMAVARAM
116	SRIKAKULAM	ZPHS METTURU	VAJRAPUKOTTURU	METTURU
117	SRIKAKULAM	ZPHS GANGUVADA	PATHAPATNAM	GANGUVADA
118	SRIKAKULAM	ZPHS KOTCHERLA	RANASTHALAM	KOTCHERLA
119	SRIKAKULAM	ZPHS AVALANGI	HIRAMANDALAM	AVALANGI
120	SRIKAKULAM	ZPHS MATHALA	KOTTURU	MATHALA
121	SRIKAKULAM	ZPHS SATIVADA	GARA	SATIVADA

122	SRIKAKULAM	ZPHS AMPALAM	POLAKI	AMPALAM
123	SRIKAKULAM	ZPHS KOLLIPADU	SANTHABOMMALI	KOLLIPADU
124	SRIKAKULAM	ZPHS LAKSHIDASUPURAM	NANDIGAM	LAKHIDASUPURAM
125	SRIKAKULAM	GTWAUHS VENNELAVALASA	SARUBUJJILI	VENNALAVALASA
126	SRIKAKULAM	ZPHS NAVANAMBADU	SRIKAKULAM	PONNAM
127	SRIKAKULAM	ZPHS BUDUMURU	LAVERU	BUDUMURU
128	SRIKAKULAM	KGBV KOTABOMMALI	KOTABOMMALI	KOTABOMMALI
129	SRIKAKULAM	ZPHS PEDDATAMARAPALLE	NANDIGAM	PEDDATAMARAPALLI
130	SRIKAKULAM	ZPHS B,G.PUTTUGA	KAVITI	BORIVANKA
131	SRIKAKULAM	ZPHS KESAVARAYUNIPALEM	LAVERU	KESAVARAYAPURAM
132	SRIKAKULAM	GTWAHS LABARA	PATHAPATNAM	LABARA
133	SRIKAKULAM	GTWAHS SAVARALINGUPURAM	NANDIGAM	SAVARALINGUPURAM
134	SRIKAKULAM	ZPHS ALLADA	JALUMURU	ALLADA
135	SRIKAKULAM	ZPHS PATHAMEGHAVARAM	SANTHABOMMALI	MEGHAVARAM
136	SRIKAKULAM	ZPHS KILLIPALEM	SRIKAKULAM	PATHASRIKAKULAM (RURAL)
137	SRIKAKULAM	ZPHS GOLLAVALASA	POLAKI	GOLLALAVALASA
138	SRIKAKULAM	ZPHS NARSIPURAM	NANDIGAM	NARSIPURAM
139	SRIKAKULAM	GTWAHS LABBA	KOTTURU	LABBA
140	SRIKAKULAM	ZPHS SUNDARAPURAM	NARASANNAPETA	SUNDARAPURAM
141	SRIKAKULAM	ZPHS KARAVANJA	JALUMURU	KARAVANJA
142	SRIKAKULAM	ZPHS JAGANNADHAPURAM	SANTHABOMMALI	RUNKUHANUMANTHUPURAM
143	SRIKAKULAM	ZPHS BURAGAM	KANCHILI	BURAGAM
144	SRIKAKULAM	ZPHS PAGODU	JALUMURU	PAGODU
145	SRIKAKULAM	ZPHS JADUPALLI	MELIAPUTTI	JADUPALLE
146	SRIKAKULAM	ZPHS VANDUVA	VEERAAGHATTAM	VANDUVA
147	SRIKAKULAM	KGBV RANASTALAM	RANASTHALAM	RANASTALAM
148	SRIKAKULAM	KGBV SCHOOL	AMADALAVALASA	AMADALAVALASA
149	SRIKAKULAM	ZPHS BADAM	NARASANNAPETA	BADAM
150	SRIKAKULAM	ZPHS VALLEVALASA	SANTHABOMMALI	GOVINDAPURAM
151	SRIKAKULAM	ZPHS DIMIDIJOLA	NANDIGAM	DIMIDIJOLA



152	SRIKAKULAM	ZPHS VOMARAVALLI	GARA	VOMARAVALLI
153	SRIKAKULAM	ZPHS PEDDALOGIDI	PATHAPATNAM	BORUBHADRA
154	SRIKAKULAM	ZPHS KONANGIPADU	VANGARA	KONANGIPADU
155	SRIKAKULAM	ZPHS LUKALAM	NARASANNAPETA	LUKALAM
156	SRIKAKULAM	GTWAHS BAIDALAPURAM	PATHAPATNAM	BAIDALAPURAM
157	SRIKAKULAM	ZPHS, DOSARI	RAJAM	D.R.N.VALASA
158	SRIKAKULAM	ZPHS K.AGRAHARAM	NANDIGAM	KAVITI
159	SRIKAKULAM	ZPHS BHAGIRADHIPURAM	HIRAMANDALAM	BHAGIRADHIPURAM
160	SRIKAKULAM	ZPHS AKKUPALLE	VAJRAPUKOTTURU	AKKUPALLE
161	SRIKAKULAM	ZPHS EDDULAVALASA	POLAKI	EDDULAVALASA
162	SRIKAKULAM	ZPHS KK RAJAPURAM	BURJA	KORIKANAKURMIRAJAPURAM
163	SRIKAKULAM	KGVB SRIKAKULAM	SRIKAKULAM	SINGUPURAM
164	SRIKAKULAM	GTWAGHS BHEEMPURAM	TEKKALI	BHEEMPURAM
165	SRIKAKULAM	ZPHS NARSIPURAM GORA	VEERAAGHATTAM	NARSIPURAM
166	SRIKAKULAM	G.T.W.A.HIGH SCHOOL	MELIAPUTTI	GANGARAJAPURAM
167	SRIKAKULAM	ZPHS PEDDABANAPURAM	NANDIGAM	PEDDABANAPURAM
168	SRIKAKULAM	ZPGHS POLAKI	POLAKI	POLAKI
169	SRIKAKULAM	ZPHS JALANTARAKOTA	KANCHILI	JALANTRAKOTA
170	SRIKAKULAM	ZPHS THAMADA	LAVERU	THAMVADA
171	SRIKAKULAM	ZPHS TURAKALAKOTA	NANDIGAM	TURAKALAKOTA
172	SRIKAKULAM	MPL HS CHINTADA	AMADALAVALASA	AMADALAVALASA
173	SRIKAKULAM	KGBV KANCHILI	KANCHILI	KANCHILI
174	SRIKAKULAM	ZPHS VONKULURU	VAJRAPUKOTTURU	METTURU
175	SRIKAKULAM	ZPHS MAMIDIVALASA	BURJA	MAMIDIVALASA
176	SRIKAKULAM	ZPHS KAMBARA VALASA	VEERAAGHATTAM	KAMBARA
177	SRIKAKULAM	ZPHS GARUDABHADRA	VAJRAPUKOTTURU	GARUDABHADRA
178	SRIKAKULAM	ZPHS VN PURAM	RANASTHALAM	VARAHANARASIHPURAM
179	SRIKAKULAM	ZPHS POTRAKHANDA	SOMPETA	POTHRAKONDA
180	SRIKAKULAM	ZPHS TAMPA	HIRAMANDALAM	TAMPA
181	SRIKAKULAM	ZPHS MARUVADA	RANASTHALAM	MARUVADA
182	SRIKAKULAM	ZPHS P.MELIYAPUTTUGA	KAVITI	KAVITI
183	SRIKAKULAM	ZPHS PUSAM	LAXMINARSU PETA	PUSAM



184	SRIKAKULAM	GTWAHS GANGAMPETA	VEERAAGHATTAM	MOKASHARAJAPURAM
185	SRIKAKULAM	ZPHS V.K.GUMADA	VANGARA	J K GUMADA
186	SRIKAKULAM	ZPHS BATHUPURAM	VAJRAPUKOTTURU	BATHUPURAM
187	SRIKAKULAM	ZPHS PALLISARADHI	VAJRAPUKOTTURU	PALLISARADHI
188	SRIKAKULAM	ZPHS BOORAGAM	TEKKALI	BOORAGAM
189	SRIKAKULAM	KGBV MANDASA	MANDASA	MANDASA (PT)
190	SRIKAKULAM	KGBV KUMMARIPETA	GARA	GARA
191	SRIKAKULAM	KGBV VEERAGHATTAM	VEERAAGHATTAM	VEERAGHATTAM
192	SRIKAKULAM	KGBV PONDURU	PONDURU	PONDURU
193	SRIKAKULAM	ZPGHS KOTABOMMALI	KOTABOMMALI	KOTABOMMALI
194	SRIKAKULAM	ZPHS D.G.PUTTUGA	KAVITI	DEPPILI GONAPAPUTTUGA
195	SRIKAKULAM	ZPHS KAVITI (ODIA)	KAVITI	KAVITI
196	SRIKAKULAM	KGBV NANDIGAM	NANDIGAM	NANDIGAM
197	SRIKAKULAM	ZPHS TEPPALAVALASA	RANASTHALAM	THEPPALAVALASA
198	SRIKAKULAM	ZPHS LINGALAVALASA	JALUMURU	LINGALAVALASA
199	SRIKAKULAM	ZPHS DEVALABHADRA	NANDIGAM	DEVALABHADRA
200	SRIKAKULAM	KGBV HIRAMANDALAM	HIRAMANDALAM	HIRAMANDALAM
201	SRIKAKULAM	ZPHS RAVICHANDRI	LAXMINARSU PETA	RAVICHANDRI
202	SRIKAKULAM	KGBV BHAMINI	BHAMINI	BHAMANI
203	SRIKAKULAM	ZPHS NELAVANKA	KAVITI	NELAVANKA
204	SRIKAKULAM	ZPHS GORLLEPETA	RANASTHALAM	KRISHNAPURAM

Note: Name of schools may vary/change at the time of implementation

