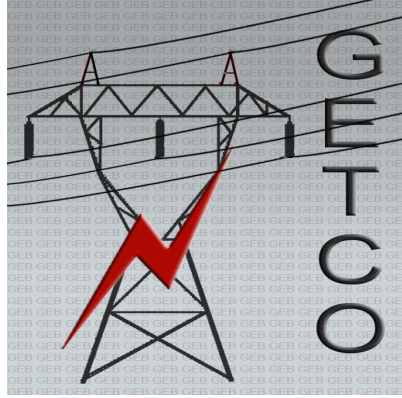


GUJARAT ENERGY TRANSMISSION CORPORATION LTD.
TRANSMISSION DIVISION - DHASA
Phone No: 02847-233106, Fax No: 02847-233087.

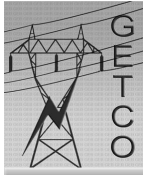


TENDER FOR WORK

NAME OF WORK	INSTALLTION OF EARTHING GRID AND MESH TYPE EARTHING AT 132 KV BARWALA S/S
---------------------	--

NAME OF PARTY : _____

DUE DATE : 20.04.2011



GETCO



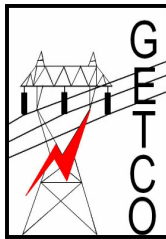
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED ગુજરાત ઊર્જા પરિવહન કોર્પોરેશન લિમિટેડ

DIVISION OFFICE -DHASA

INDEX FOR TENDER DOCUMENTS

Sub. :- Tender for installation of earthing grid at 132 KV BARWALA under DHASA Division.

SR NO	DESCRIPTION	PAGE NO
1	TENDER NOTICE.	3
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3	NOTES FOR QUALIFICATION	6
4	SHCEDUALE – B (Labour Cost)	7-8-9
5	TECHNICAL NOTES FOR MATIRIAL FOR SPECIFICATION	10
6	GENERAL & COMMERCIAL TERMS AND CONDITIONS	11-12
7	DRAWING OF EARTHING	13



G.E.T.C.O., DIVISION OFFICE, DHASA
Pin Code: 364730, Dist. Bhavnagar.

Phone No.: 02847-233106
E-mail:dhasatr@rediffmail.com

Fax No.: 02847-233087

Tender documents for Tender Notice No: TDD/TECH/2011/TENDER-16/4436.

Sealed percentage rate tenders are invited in two separate sealed covers (Super scribed technical bid and price bid) for “**Work of installation of earthing grid at 132 KV BARWALA under DHASA Division –Amreli Circle** from Registered Contractors in appropriate class with GETCO. and who has executed similar nature of work and magnitude successfully. Tenderer should download the tender documents from this Website and submit the same as per instructions therein only by RPAD/Speed post

Sr. No.	Name of Work	Estimated Cost Rs.	Time Limit	Tender Fee Rs.	E.M.D. Rs.	Appropriate class
01.	Installation of earthing grid at 132 KV BARWALA in 132/11 KV Yard under DHASA Division – Amreli Circle	5, 45,552/	90 Days.	600/	5500/	“E-1” & above

1) Last date of submission of tender :(Technical and Price bids):- **20/04/11**

(only by RPAD / Speed post)(During working Hrs. up to 14.00 Hrs.)

2) Due date of opening Tech. bid: - **20/04/11 (at 15.00 Hrs.)**

3) Validity of tender: **60 Days from the date of opening of Technical Bid.**

No tender shall be accepted / opened in any case after due date and time of receipt of tender, irrespective of delay due to postal services or any other reasons and the GETCO shall not assume any responsibility for late receipt of tender.

The Earnest Money Deposit and tender fee will be accepted only by Demand Draft on any Nationalized Bank / Scheduled Bank situated at “DHASA”, drawn in favour of “GETCO, DHASA.”. Tender without EMD and tender fee shall be rejected. Two separate demand draft for tender fee and EMD should be submitted with technical bid.

The GETCO reserves the rights to reject any or all tenders or accept any tender without assigning any reason thereof.

Tender document can be down loaded from our web site WWW.gseb.com Interested party requested to visit our Web Site as mentioned. The Tenderer should have to submit with Tender on latter pad along with attested copies of the certificate of (1) PAN No. (2) Registration from GETCO (3) Solvency Certificate from Schedule Bank / Revenue Bank, (4) Partnership deed, (5) Latest Registration Certificate for provident fund of Employees / Labors and P.F. Code No. and its latest receipt, (6) Experience Certificate of same type of work carried out in GETCO (7) Vat Registration (8) Service Tax Registration (9) Payment of Tender Fee & EMD in D.D. in favour GETCO. (9) Latest Electrical Licenses Duly Renewed.

EXECUTIVE ENGINEER (TR)
GETCO, TR. D.O. DHASA.



**GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
TRANSMISSION DIVISION, DHASA**

DHASA-364 730

Phone No: 02847 233106

Fax No: 02847 233087

Important General Terms & Condition for Bidders:-

1. The Tenders are to be submitted by the intending bidders in single envelop with two separate sealed and super scribed envelopers as listed by low :- other wise offer will be rejected.

Envelop No.1 :- Technical bid & post qualification bid data & D.D.for **EMD/Cash receipt** copy registration, relevant work experience, electrical licence, PF code Details of work executed.

Envelop No.2 :- Price Bid

Technical & post qualification bid details specification (envelop No.1) will be opened first and subject to evaluation based on the qualification criteria contained in the individual bid document, price Bids(Envelop No.2)of bidders who are assessed and declared as substation technically responsive on evaluation of the technical bid will be opened for further commercial evaluation. No tender shall be accepted/opened in case of receipt after due date and time of tender, irrespective of delay due to postal service or and other reasons and the GETCO shall not assume and responsibility for late receipt of tender. The Earnest Money Deposit will be accepted only by cash or by Demand Draft on any schedule Bank situated at **DHASA drawn** in favour of Gujarat Energy Transmission Corporation Limited Tender without EMD likely to be rejected. The GETCO reserved the right to reject any or all tenders or accept any tender without assigning our reason there of.

2. The installation of Earthing grid and Earthing related work should be carried out as per design and drawing attached herewith –as per instruction of EIC.
3. Laying of GI strip in excavated stanch 300 mm width X 1000 mm dept including straightening, cutting of strip welding of bar at crossing point and at vertical electrode point as per instruction engineer in charge. The GI strip sized 75X10 mm/50X6 mm and MS round bar sized 32 mm for fabrication of grid will be supplied by the contractor at his own cost as per standard and quality shown in technical data sheet.
4. Excavation of trench in NDS/SR/BC is included but excavation in HR will paid extra as per GETCO SOR Time to Time –Hard Rock will be decided by EE Tr and Sub Station in charge.
5. The back filling of trench after lying welding of round bar as per design attached herewith.
6. The back filling of 500 mm from bottom with black cotton soil and salt and upper part 100 mm should be back field with Bentonite and remaining 300 mm excavated stuff and upper top portion of 100 mm should be field with crushed metal (Gravel) of 25-40 avg. mm size- Before final filling water pouring as per instruction of EIC For homogeneous of filling with earth.
7. The balance excavated stuff to be removed from the site and throwing away as directed by engineer in charge.
8. The excavation in hard rock, carried out with control blasting only. However, during blasting any damage to GETCO's property, costly material, equipments etc. the cost will be recovered from contractor.
9. For electrode 100 mm Dia. bore to be made with boring machine only and bore to be bore at bottom of trench 3000 mm deep and after fixing of electrode

- back filling of bore with 10 Kg. salt and 10 Kg. coal and black cotton soil with mixing with bentonite powder and pouring of water.
10. The power supply connection will be provided by GETCO at one point only from where the contractor has to arrange for temporary connection(as per prevailing tariff) and further distribution is to be made at his own cost for welding/cutting work with own risk.
 11. The contractor has sufficient capacity earth Megger. The contractor has to give all the earthing parameter for earthing grid as per GETCO's requirement. Along with **certification of soil testing data.**
 12. For welding work welding **electrode used should be ISI mark** only and should be approved before use from EIC for proper quality.
 13. The welding work at crossing point and at fixing of ground bar paint to be carried out as per instruction engineer in charge no any edge for crossing left without welding.-Re filling will be done only after photography / Proof if expected by EIC / Authority .-Photography will arrange by GETCO
 - 14.For connection of the Grid of 75 X 10 MM GI Strip with existing Structure and equipment to be done with steel bolt nuts of 5/8 " With steel washers at grid side and to be welded with Structure as per guide line by GI Strip of 50 X 6 MM as per standard given in technical sheet.
 15. Dressing of Yard by removing extra stuff /west etc and re spreading of grit (Old grit of Yard) to be done as per instruction of EIC over and above new grit spreading.
 - 16.Charges for water and Electricity will be born by contractor for work.
 - 17.You have to submit the service Tax Registration proof i.e. Service Tax No.
 18. You have to submit proof of P.F. account No And at the time of Bill submission you have to submit last paid PF Challan.
 19. You have to submit proof of PAN No. for Income Tax purpose.
 20. You have to submit class of Registration proof.

Executive Engineer (TR)
DHASA



**GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
TRANSMISSION DIVISION, DHASA**

DHASA-364 730

Phone No: 02847 233106

Fax No: 02847 233087

Notes for qualification for Bidders:-

The tender documents are for two separate bids i.e. technical bid (i.e. qualifying bid) and price bids (i.e. commercial bid). Following credentials shall be submitted with the technical bid for qualification.

1. Registration: Bidder quoting for the bid shall have registration in appropriate class with GETCO.
2. Experience: Contractor should produce evidence of having experience in executing similar nature & magnitude of jobs preferably photo copy of orders secured from GETCO and satisfactory completion certificate from respective department.
3. Latest bank solvency certificate from any nationalized bank of a sum of minimum 20% of the estimated cost shown in the tender.
4. Separate provident fund code number towards your firm registered with Regional P.F. Commissioner.
5. The Earnest Money Deposit and tender fee will be accepted by way of CASH OR Demand Draft on any Nationalized Bank only situated at 'DHASA' drawn in favor of "Gujarat Energy Transmission Corporation Ltd." Tender without EMD and tender fee shall be rejected. Two separate demand draft for Tender fee and EMD should be submitted with technical bid. Any tender submitted without tender fee and EMD will be disqualified.
6. The details of tools and tackles, owned and available for using in this work.
7. Attested copy of power of Attorney, if any, for signing the bid documents.
8. Service Tax:- Service Tax Registration towards your firm.
9. PAN No.:-PAN number towards your firm for Income TAX purpose.

The Contractor will have to submit their offer in two bid **(1) Technical bid & (2) Price bid**. They have to put price bid sealed cover in to the Technical bid sealed cover. Otherwise offer will be rejected.

The technical bid shall be opened at 4-00 pm, if possible on due date After scrutinizing of the technical bid, if party fails to fulfill the above requirement for qualification, the price bids of such parties will not be opened. The price bid of qualifying parties thereafter shall be opened on the date and time communicated to qualified parties afterwards in the presence of parties.

The bid should be clearly *subscribe with our reference number due date and title of work*. The offer should be valid for acceptance for a minimum period of 6 months from the date of opening of technical bid.

**Sign. Of Contractor
With rubber Stamp**

**Executive Engineer(TR)
DHASA**

SCHEDULE – A FOR DETAIL AND ESTIMATED COST FOR MATERIAL

Name of Work:- Installation of Earthing grid, Mesh type and Bore type earthing at 132kV Barwala S/S under Dhasa TR. Division.

ABSTRACT

Sr. No.	Item/Description	QTY in Mtr./ Ton	Estimated Rate(Rs.)	Unit	Estimated Amount
A	Material				
1	GI Strip size 75X10 mm.	280/ 1.652	51,000	Ton	84,252.00
2	GI Strip size 50 X 6 mm.	800/ 1.920	51,000	Ton	97,920.00
3	MS Round Bar 32 mm Dia.	100/ 0.631	40,000	Ton	25,240.00
4	Steel Nuts and Bolts, 5/8" Dia.	0.174	70,000	Ton	12,180.00
TOTAL COST FOR MATERIAL					2,19,592.00
(Rupees Two Lac Nineteen Thousand Five Hundred Ninety Two Only.)					

Note:- Above material will have to be supplied by Contractor at his own cost as per technical sheet enclosed for material. Bill amount will be paid by GETCO as per actual quantity of material used and actual quantity of work.

SCHEDULE B–DETAIL FOR WORK

ABSTRACT

Sr. No.	Item/Description	QTY	Estimated Rate(Rs.)	Unit	Estimated Amount
Work					
1	Bore type earthing 15 meters long with drilling of hole on its periphery. Sufficient coal and salt and remaining with black cotton soil with sufficient watering and connecting same with existing mesh and earthing pit with 50x6 mm GI strip. (Strip will be supplied by Contractor) The work is to be done as per instruction of EIC. Size of bore : 125 mm dia. And this inclusive of 42.00 mm diameter, 15.0 meter long, "Heavy duty" class, 4.0 mm wall thickness, 3.82 kg/meter weight G.I. pipe (As per IS-1239(PART-I):1990.	16 Nos.	17820.00	Nos.	2,85,120.00
Labour					
2	Installation of Earthing grid of GI Strip size 75X10 mm as per attached the sketch including digging of stranch sized 1.0 meter defect 0.30 meter wide including straighten of GI strip, laying in stranch and welding of strip at crossing point as per drawing and specification including back filling with black cotton soil and bentonite and excavated stuff as shown in attached	280	33	RMT	9,240.00

	drawing as per instruction of engineer in charge.				
3	Installation of Earthing grid of GI Strip size 50X6 mm as per attached the sketch including digging of stranch sized 1.0 meter defect 0.30 meter wide including straighten of GI strip, laying in stranch and welding of strip at crossing point as per drawing and specification including back filling with black cotton soil and bentonite and excavated stuff and connection with existing earth pit as shown in attached drawing as per instruction of engineer in charge.	800	22	RMT	17,600.00
4	Installation and fixing of MS round Bar rod sized 32 mm Dia Bar in 100 mm Dia bore 3.0 meter deft from bottom of trench including cutting of bar, welding with grid strip and back filling bore with black cotton soil AND Bentonite as per attached drawing and instruction of engineer in charge.	28	500	Nos.	14,000.00

TOTAL COST FOR LABOUR

3,25,960.00

(Rupees Three Lac Seventeen Twenty Five Thousand Nine Hundred Sixty Only.)

TOTAL ESTIMATED COST FOR WORK

Sr.No.	Item/Description	Estimated Amount Rs.
1	MATERIAL COST AS PER SCHEDULE -A	2,19,592.00
2	LABOR COST AS PER SCHEDULE -B	3,25,960.00
TOTAL AMOUNT OF WORK		5,45,552.00
Rupees Five Lac Forty Five Thousand Five Hundred Fifty Two Only.		
THIS RATE INCLUSIVE OF ALL TAXES + TRANSPORTATION		

I/We am/are willing to carry out above mentioned work at _____ % above / below (should be return figure and words). The estimated rate mention above. Amount of my / our Tender works output as under

Total amount Rs.

In words

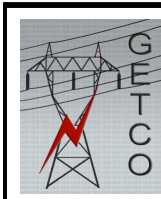
We agree with all tender terms and conditions of GETCO

Date:-

**Signature of Contractor
With Rubber Stamp**

SCHEDULE – B(1)
Work details for Item No.1 of Schedule –B.

ABSTRACT					
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	GI pipe 42mm Dia B-Class.	15	Mtr	325.00	4875.00
2	Coal.	0.1	MT	5000.00	500.00
3	Salt.	0.2	MT	600.00	120.00
4	Bore of 125mm Dia.	50	FT	65.00	3250.00
5	Coupling and Fittings.	03	No.	55.00	165.00
6	Labor work for erection of pipe work fabrication work for fitting 50 X 6 mm2 GI strips.	01	JOB	400.00	400.00
7	Drilling holes and prepare connection & fabrication and miscellaneous work related.	01	JOB	150.00	150.00
8	S.S Bolts for connection.	01	No.	85.00	85.00
9	Hume Pipe 2 Ft. Dia. And cover with handle.	01	No.	650.00	650.00
10	Total material handling and Transportation.	01	No.	200.00	200.00
11	GI Strip 50 X 6 mm2.	0.08	MT	95000.00	7125.00
12	Preparation of fabricated shape with G.I. strip having 3 holes (1 of 5/8 & 2 of 3/8) suitable for external connections both side of shape to be welded completely with G.I. strip of earthing.	01	No.	300.00	300.00
TOTAL ESTIMATE FOR 1 BORE TYPE EARTHING					17,820=00



**GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED
TRANSMISSION DIVISION, DHASA**

DHASA-364 730

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Technical Data Sheet:

Material & Labor work :

1.> GI Strip 75 X 10 MM / 50 X 6 MM :-

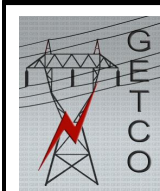
- I. For GI, steel material used should be fresh not re cycled. Coating of Zink by hot dip method and average layer should be of 90 microns over surface as per IS: 2629 (1966) –Recommended practice for hot dip galvanizing of Iron and Steel. For the same Specification of Zink as per IS: 209 (1966) and it is of grade Zn-98. And testing of GI Strip for Galvanizing as per standard IS: 2633(1972) –Method of testing for uniformity of casting of Zink. Specification for electroplating IS :3203 , Specification for hot dip coating on Structural and allied product as per IS 4759 (1968)
- II. Contactor has to arrange for testing of GI Strips at their own cost at any approved lab / organization / Works (Calibration certificate for testing equipments to be produced if testing at works) test will be witnessed by GETCO Representative. Rejected material will not be permitted for use for work
- III. Certificate for tested material should be produce for each lot.

2.> MS Round Bars:-

- I. Uniformity for surface and average guaranteed Dia and dimension should be maintained through out supply. MS bars should be made from fresh Steel not re cycled. Test results for Quality i.e. for tensile stress and resistance of bar should be mansion in test result submitted by contractor expenditure for testing of material to be born by contractor. Supplied material should be tested at approved lab / organization or at works (Calibration certificate for testing equipments to be produced if testing at works) test will be witnessed by GETCO representative.
- II. Test certificate should be submitted for each lot.

3.> Stainless steel Nut Bolts:-

- I Stainless steel nuts and bolts should be of as per IS: 1364- A/4,with 5/8" (15.87 mm) Dia and steel of 316 Grade with best quality, Hexagonal head and having high anti corrosive characteristics
- 4.> Salt , charcoal and bentonite should be of good quality and proper workmen ship for uniform laying is require .and also grit to be provide and spreaded should be of good quality and having resistivity of surface layer of 100 MM is minimum 3000 Ohm-meter .
- 5.> Water pouring in bore type earthings with 32 MM Dia rod, and in trench prepare for GI Strip Grid mesh is to be born by contractor.
- 6.> Method for work as per schedule – B For the work.



GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED

TRANSMISSION DIVISION, DHASA

DHASA-364 730

Phone No: 02847 233106

Fax No: 02847 233087

:GENERAL TERMS AND CONDITIONS:

- 1) **Time Limit:** Period of contract for said Earthing mesh preparation for 132 kv Sub Station –BARWALA from date placement of the detailed order, Time limit for work is 3-Month, For any delay ½ % Penalty per week for value of work executed after due date of completion subject to a ceiling of 10 % of Contracted amount The penalty will be deducted from bill / any balance amount with GETCO.
- 2) **Agreement /Indemnity Bond:-** The contractor shall have to execute agreement on the no judicial stamp paper of Rs.100/- And also indemnity bond to be prepare and submitted.
- 3) **Security deposit:** Contractor has to pay security deposit of 5% as per GETCO's rules within week time in cash or by DD drawn on any scheduled bank otherwise the amount will be deducted from 1st. R.A.Bill.
- 4) **Place of delivery and Work :** The materials will have to be supplied and or utilized at our 132 kv –BARWALA sub-stations site under the control of Division Office –DHASA.
- 5) **Terms of payment:** 90 % payment will be made by this office for RA Bill and 10 % will be release at time of final bill. No price variation will be allowed on any account.- Price /Rate quoted will be firm till the work complete no any extra amount will be paid for any task related to this job. No interest shall be paid for delay in payment of RA bill as well as final bill.
- 6) **Taxes Levies and Duties :**Rates quoted would be inclusive of all taxes, service tax and duties etc. as applicable. Nothing will be paid extra work contact tax /vat /excise duties etc to be born by contactor. Income tax will be deducted at the prevailing rates from the bill in accordance with provision of Income Tax Law .Certificate for tax deducted will be issued to the contractor.
- 7) **Transportation and Man Power Mobilizing:-**The work is to be executed in all respect as per the instructions of Engineer-in-charge and technical and commercial terms of contract by arranging all required materials and labor, GETCO will not pay any thing extra on this account all transportation and manpower mobilizing etc will not born by GETCO.
- 8) **Revenue Loss / Damage to Property of GETCO & of Contractor:-** Any damage or loss of property of GETCO amount will be recovered from contractor, the amount will be decided by this office .Any loss of / Damage to material of contractor from site will be responsibility of contractor- GETCO Will not bare any cost, or compensation will not given against any claim if made.
- 9) **Safety /Accident / Injury:** - Contractor have to work as per safety norms and all safety tools and equipments will be manage by Contractor, without safe working method at any time work will be stopped by GETCO and for such case duration will considered in time limit , GETCO will not responsible for any accident /injuries to the persons working for said work , The contractor shall keep the GETCO indemnified thereof. Contractor have to manage for insurance policy for Workers / and any person engaged by the Contractor.

- 10) **Sub Contract:-** Contactor shall not execute any work or part of work through sub contract for said work. No part of the contract nor any share of interest there in shall in any Manner of decree be transferred / assigned or sub-let by the Contract Directly or indirectly to any person / firm or corporation whatsoever.
- 11) The GETCO reserves the right of retrenching and dismissing any Person employed for the work by contractor if there is complaint against his misbehaviors, misconduct or disloyally towards job or instruction by EIC.
- 12) Terms and conditions regarding industrial laws / Labor laws and other statutory Matters must be complied by the contractor in all respect if applicable in any case or contract.

11.) Subjected to DHASA jurisdiction only.

Terms and condition regards industrial law and related matters to be incorporated in the tender documents.

The contractor shall pay fixed under the minimum wages act in existence the wages of every contract labor employed by him under this contract shall be paid by him before the expiry of 7 days of the last day of the month in respect of which the wages are payable i.e. wages of a month have to be paid by him before the first week of the next month. The payment shall be disbursed in the presence of management representative during the work hours in factory premises and the contractor shall get the entries certified in the register of wages by the representative of the GETCO (EARLIER GEB). Any default will result in cancellations of the contract forth with or else the contractor shall be punishable to the extent of Rs. 100 fine per each day.

1. The contractor shall give his telephone number Mobile No and address to the GETCO (EARLIER GEB) so that incase of labour trouble etc. The contractor can be contacted directly, the contractor shall arrange to have his office outside premises and the contractor/his authorized person keep himself present through the working hours.

2. Labors Laws.

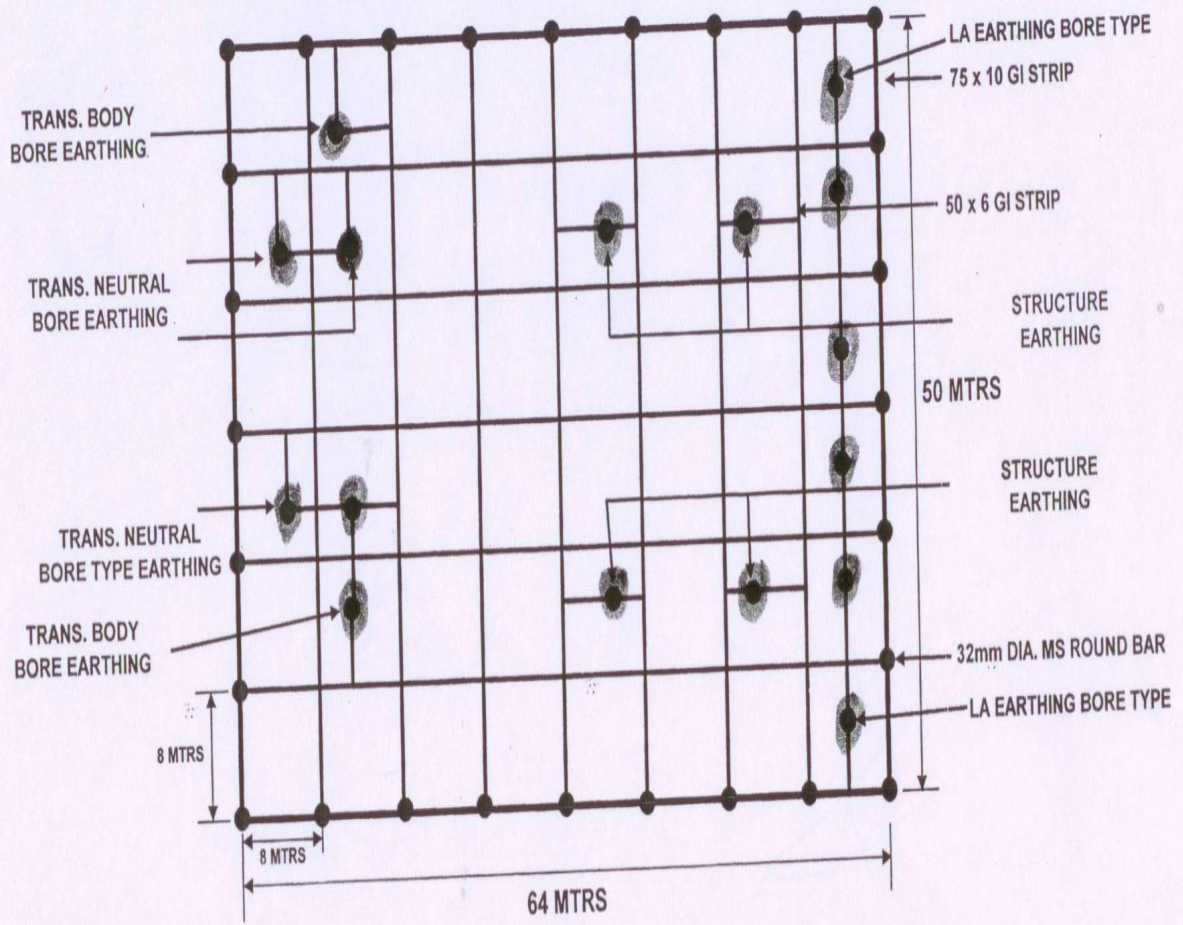
- A. Person below the age of 18 years shall not be employed for the work.
- B. No female worker shall be employed.

The contractor shall at his own expenses comply with all labour laws and keep the GETCO (EARLIER GEB) indemnified in respect thereof. Some of the major Liabilities under various labour and industrial laws as per norms.

Over and above all right reserve for cancellation , termination , or for change in any of above terms and condition time to time with intimation to contractor by GETCO.

**EXECUTIVE ENGINEER (TR)
DIVISION OFFICE -GETCO
DHASA**

PROPOSED EARTHING LAY-OUT OF 132KV BARWALA S/S.



Break-Up :-

Total length of 75 X 10 mm² GI strip : 228 RMT + 52 RMT (For connection to existing structure or pit) = 280 RMT
 Total length of 50 X 6 mm² GI strip : 670 RMT + 130 RMT (For connection to existing structure or pit) = 800 RMT
 Total length of 32mm Dia. MS round bar :- 28 Nos. X 3 Mtr = 84 Mtr + 16 Mtr (Wastage) = 100 MTR.