

UGVCL Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

ADVERTISED TENDER 65/2018

ISSUED TO,

M/s _____

PR NO	351089
RFQ NO	48324

Name of Work : - ERECTION, DISMANTLING AND MAINTANANCE WORK OF HT, LT & TC UNDER VARIOUS SCHEMES (LIKE ND,SKJGY,DDUJGY,DISS ETC) UNDER CHANASMA S/DN, DIVISION OFFICE PATAN , UGVCL

Tender Notice No :-

Estimate cost	Rs. 499874/-
Earnest Money Deposit	Rs. 5000 Receipt No
Security Deposit	Rs. 25000
Last date of receipt of tender /EMDS	Date :- 24.05.18 On 15.00 Hrs.
Date of opening the tender	Date: - 29.05.18 On 15.00 Hrs. (If Possible)
Tender Fee	Rs. 590 (500 + 18% GST) Receipt No
Time Limit.	2 Year
Page No.	1 to 28

Earnest money deposit will be accepted in cash or by demand draft on any schedule bank at PATAN in favour of UTTAR GUJARAT VIJ COMPANY LIMITED, cheques or Bank guarantee will not be accepted.

Tender received through RPAD will be accepted.

**SUPDT.ACCTT.
UGVCL, DO,PATAN**

**EXECUTIVE ENGINEER
UGVCL, DO, PATAN**

SCHEDULE: B

Memorandum showing items of Erection work with rates quantity & amount.

Sr. No.	Description of Work	Estimate Qty.	Unit	TENDER RATE in Figure	Total
1	2	3	4	5	6
1	HT TAPPING FROM THE EXISTING POLE INCLUDING FIXING OF CROSS ARMS, CLAMPS, ANTI-CLIMBING DEVICES, DANGER BOARD, INSULATORS ETC. COMPLETE AND PAINTING OF FABRICATED MATERIALS AND NUMBERING COMPLETE WITH COST OF PAINTS AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SET AND EARTHING. Code No.9901000001	5	NO	278	1390
2	ERECTION OF PSC POLES OF 10 Mtr X 270 KG INCLUDING EXCAVATION OF PIT AND REFILLING OF EARTH, FIXING OF CROSS ARMS, TOP FITTING CLAMPS ANTI-CLIMBING DEVICES, INSULATORS ETC, COMPLETE AND PAINTING OF FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINTS AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SET AND EARTING. Code No.9902010002	5	NO	1815	9075
3	ERECTION OF PSC POLES OF 8 Mtr X 200 KG INCLUDING EXCAVATION OF PIT AND REFILLING OF EARTH, FIXING OF CROSS ARMS, TOP FITTING CLAMPS ANTI-CLIMBING DEVICES, INSULATORS ETC, COMPLETE AND PAINTING OF FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINTS AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SET AND EARTING. Code No.9902010001	50	NO	675	33750

4	<p>ERECTION OF STEEL POLES OF 9 TO 11 METERS INCLUDING EXCAVATION OF PIT AND REFILLING OF EARTH, FIXING OF CROSS ARMS, TOP FITTING CLAMPS ANTI-CLIMBING DEVICES, DANGERS BOARD, INSULATORS ETC. COMPLETE AND PAINTING OF STEEL POLE, FABRICATED MATERIALS USED ON THE POLE AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SET AND EARTHING. Code No.9902010003</p>	3	NO	1120	3360
5	<p>ERECTION OF STEEL POLE OF 13 METERS FOR RAILWAY CROSSING ON BG/MG/NG LINE FOR 0.400/11/22KV OVER HEAD LINES I.E. INCLUDING EXCAVATION OF PIT & REFILLING OF EARTH, FIXING CROSS ARMS, TOP FITTING CLAMPS, ANTI-CLIMBING DEVICES DANGERS BOARD, INSULATORS ETC. COMPLETE AND PAINTING OF STEEL POLES, FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SETS AND EARTHING. Code No.9902010005</p>	2	NO	1315	2630
6	<p>ERECTION OF DOUBLEL POLES STRUCTURE OF 8 Mtr X 200 KG PSC POLES INCLUDING EXCAVATION OF PITS & REFILING OF EARTHING, FIXING OF CHANNELS, SUPPORTING ANGLES, CLAIMPS, ANTI-CLIMBING DEVICES DANGER BOARDS, INSULATORS ETC. COMPLETE AND PAINTING OF FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFIATION BUT EXCLUDING ERECTION OF GUY SETS AND EARTHING. Code No.9902020001</p>	2	NO	1650	3300

7	<p>ERECTION OF DUOUBLE POLE STRUCTURE OF 10 METERS PSC POLE INCLUDING EXCAVATION OF PITS & REFILLING OF EARTH, FIXING OF CHANNELS, SUPPORTING ANGLES, CLAIMPS, ANTI-CLIMBING DEVICES DANGERS BOARDS, INSULATORS ETC. COMPLETE & PAINTING OF POLES, FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINTS AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SET AND EARTHING. Code No.9902020025</p>	1	NO	4030	4030
8	<p>ERECTION OF DOUBLE POLE STRUCTURE USING 9 TO 11 METERS STEEL POLES INLUDING EXCAVATION OF PITS AND REFILLING OF EATH, FIXING OF CHANNEL, SUPPORTING ANGLES, CLAMPS, ANTI-CLIMBING DEVICES, DANGERS BOARDS, INSULATIORS, ETC. COMPLETE AND PAINTING OF POLES FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFICIATION BUT EXCLUDING ERECTION OF GUY SET AND EARTHING. Code No.9902020007</p>	1	NO	2335	2335
9	<p>ERECTION OF DOUBLE POLE STRUCTURE WITH MOUNTING OF AB SWITCH, HG FUSES OF 8 Mtr X 200 KG PSC POLES INCLUDING EXCAVATION OF PITS AND REFILING OF EARTH, FIXING OF CHANNELS SUPPORTING ANGLES, CLAMPS, ANTI-CLIMBING DEVICES, DANGER BOARDS, INSULATORS, DO FUSES ETC. COMPLETE AND PAINTING OF FABRICATED MATERISL USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD LSPECIFICATION BUT EXCLUDING OF ERECTION OF GUY SET AND EARTHING. Code No.9902020003</p>	1	NO	1810	1810

10	<p>ERECTION OF DOUBLE POLE STRUCTURE WITH MOUNTING OF AB SWITCH, HG FUSES 9 TO 11 METERS STEEL POLES INLUDING EXCAVATION OF PITS AND REFILLING OF EATH, FIXING OF CHANNEL, SUPPORTING ANGLES, CLAMPS, ANTI-CLIMBING DEVICES, DANGERS BOARDS, INSULATIORS, ETC. COMPLETE AND PAINTING OF POLES FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFICIATION BUT EXCLUDING ERECTION OF GUY SET AND EARTHING. Code No.9902020010</p>	1	NO	2370	2370
11	<p>ERECTION OF DOUBLE POLES STRUCTURES WITH MOUNTING OF AB SWITCH, HG FUSES, TRANSFORMERS, LIGHTENING ARRESTORS, DISTRIBUTION BOX ETC. OF 8 Mtr X 200 KG. PSC POLES INCLUDING EXCAVATION OF PITS AND REFILENG OF EARTH, CARTING OF TRANSFORMERS FROM STORES TO SITE, FIXING OF CHANNELS, SUPPORTING ANGLES, BRACINGS CROSS ARMS CLAMPS, ANTICLIMBING DEVICES, DANGER BOARDS, CONDUCTOR AND CABLES WIRING ETC. COMPLETE AND PAINTING OF FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SETS AND EARTHING. Code No.9902030003</p>	1	NO	5360	5360

12	<p>ERECTION OF DOUBLE POLES STRUCTURES WITH MOUNTING OF AB SWITCH, HG FUSES, TRANSFORMERS, LIGHTENING ARRESTORS, DISTRIBUTION BOX ETC. OF 10 Mtr X 270 KG. PSC POLES INCLUDING EXCAVATION OF PITS AND REFILING OF EARTH, CARTING OF TRANSFORMERS FROM STORES TO SITE, FIXING OF CHANNELS, SUPPORTING ANGLES, BRACINGS CROSS ARMS CLAMPS, ANTICLIMBING DEVICES, DANGER BOARDS, CONDUCTOR AND CABLES WIRING ETC. COMPLETE AND PAINTING OF FABRICATED MATERIALS USED ON THE POLES AND NUMBERING WITH COST OF PAINT AS PER STANDARD SPECIFICATION BUT EXCLUDING ERECTION OF GUY SETS AND EARTHING. Code No.9902030003</p>	1	NO	7430	7430
13	<p>ERECTION OF DOUBLE STRUCTURE WITH MOUNTING OF AB SWITCH, HG FUSES TRANSFORMERS, LIGHTENING ARRESTORS, DISTRIBUTION BOX 9 TO 13 METERS STEEL POLES INCLUDING EXCAVATIONS OF PITS & REFILING OF EARTH CARTING OF TRANSFORMERS FROM STORE TO SITE, FIXING OF CHANNELS SUPPORTING ANGLES, BRACING, CORSS ARMS CLAMPS, ANTICLIMBING DEVICES, DANGERS BOARDS, CONDUCTOR AND CABLE WIRING ETC. COMPLETE AND PAINTING OF POLES FABRICATED MATERIALS USED ON THE POLES AND NUMBERING AS PER STANDARD SPECIFCATION BUT EXCLUDING ERECTIONS OF GUY SETS AND EARTHING. Code No.9902030007</p>	1	NO	6160	6160
14	<p>ERECTION OF GUY SET INCLUDING EXCAVATION OF PITS & REFILING OF EARTH AS PER STANDARD SPECIFICATION WITH STAY CLAMPS, STAY WIRE ANCHOR ROD, TURN BUCKLE, EYEBOT, GUY INSULATORS, CEMENT CONCRETE BLOCK ETC, BUT EXCLUDING CONCRETING. Code No.9902040001</p>	200	NO	315	63000

15	CONCRETING OF POLES, GUYS, ETC. INCLUDING COST OF CEMENT SAND METAL (1:2:4) AND WATER ETC. AS PER STANDARD SPECIFICATION. Code No.9905010001	3	CMT	5900	17700
16	ERECTION OF COIL TYPE EARTHING INCLUDING COST OF COAL SALT ETC. BUT WITHOUT COST OF GI WIRE AS PER STANDARD SPECIFICATION. Code No.9902040002	200	NO	350	70000
17	ERECTION OF GI PIPE/CI PLATE TYPE EARTHING INCLUDING COST OF COAL SALT ETC. BUT WITHOUT COST OF PIPE/GI LPLATE GI WIRE AS PER STANDARD SPECIFIATION. Code No.9902040003	30	NO	350	10500
18	ERECTION OF STREET LIGHT FIXITURE COMPLETE WITH CLAMPS, BRASS NIPPLE, BRASS, HOLDER TECK WOOD BUSH, REFLECTORS FUSE, WIRING ETC. Code No.9902040004	5	NO	210	1050
19	STRINGING OF 30MM2 ACSR/34MM2, 55MM2 AAA CONDUCTOR FOR 11/22KV & LT LINES INLCUDING FIXING OF INSULATORS, BINDING JUMPERING ETC. Code No.9903000001	5	PER KM	1240	6200
20	STRINGING OF LOOSE SPAN WITH BINDING, JUMPER ETC 30MM2 ACSR, 34MM2, 55MM2 AAA CONDUCTOR FOR 11/22KV & LT LINES. Code No. 9911000008	10	PER SPAN	62	620
21	STRINGING OF DOG CONDUCTOR FOR 11/22KV LINES INLCUDING FIXING OF INSULATORS, BINDING JUMPERING ETC. Code No.9903000001	0.5	PER KM	2730	1365
22	STRINGING OF LOOSE SPAN WITH BINDING, JUMPER ETC 100MM2 DOG CONDUCTOR CONDUCTOR Code No. 9911000008	2	PER SPAN	136.5	273
23	STRINGING OF GI WIRE 8 SWG INCLUDING BINDING JUMPERING ETC. Code No.9903000003	0.5	PER KM	700	350
24	PROVIDING GUARDING TO HT LINE ON ROAD / RAIL CORSSING. Code No.9906000002	20	PER MTR	58	1160
25	PROVIDING GUARDING TO LT LINE ON ROAD / RAIL CORSSING.	20	PER MTR	58	1160

	Code No.9906000001				
26	LT LINE TAPPING - SINGLE PHASE Code No.9901000002	5	NO	31	155
27	LT LINE TAPPING - THREE PHASE Code No.9901000003	5	NO	67	335
28	LAYING OF OVER HEAD LT CABLE FOR ROAD CROSSING, HT LINE CROSSING AND TELEPHONE LINE CROSSING ETC (PER SPAN) Code No.9911000017	1	NO	165	165
29	DISMANTALLING OF PSC POLE 8 MTR WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE Code No.9907000017	10	NO	465	4650
30	DISMANTALLING OF PSC POLE 10 MTR WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE Code No.9907000017	5	NO	935	4675
31	DISMANTALLING OF HT TAPPING WITH CREDITING OF FABRICATION AT STORE Code No.9907000016	5	NO	139	695
32	DISMANTALLING OF TRANSFORMER CENTRE (PSC POLE) WITH CREDITING OF FABRICATION & TRANSFORMER AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE (WITH TRANSFORMER) Code No.9907000007	1	NO	2750	2750
33	DISMANTALLING OF TRANSFORMER CENTRE (PSC POLE) WITH CREDITING OF FABRICATION & TRANSFORMER AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE (WITHOUT TRANSFORMER) Code No.9907000007	1	NO	1870	1870
34	DISMANTALLING OF STEEL POLE 9 TO 11 MTR WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE Code No.9907000005	1	NO	560	560
35	DISMANTALLING OF STEEL POLE 13 MTR WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE Code No. 9907000006	1	NO	657	657
36	DISMANTALLING OF DP STRUCTURE PSC POLE WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE. Code No.9907000019	1	NO	825	825

37	DISMANTLING OF DP STRUCTURE RSJ POLE WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE. Code No.9907000004	1	NO	1167	1167
38	DISMANTLING OF DP STRUCTURE WITH D.O FUSE (PSC POLE) WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE. Code No.9907000019	1	NO	905	905
39	DISMANTLING OF DP STRUCTURE WITH D.O. FUSE (RSJ POLE) WITH CREDITING OF FABRICATION AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE. Code No.9907000004	1	NO	1185	1185
40	DISMANTLING OF TRANSFORMER CENTRE (RSJ POLE) WITH CREDITING OF FABRICATION & TRANSFORMER AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE (WITH TRANSFORMER) Code No.9907000008	1	NO	3080	3080
41	DISMANTLING OF TRANSFORMER CENTRE (RSJ POLE) WITH CREDITING OF FABRICATION & TRANSFORMER AT STORE & STACKING OF POLE AT SAFE AND ON ROAD SIDE (WITHOUT TRANSFORMER) Code No.9907000008	1	NO	2200	2200
42	DISMANTLING OF GUY SET WITH CREDITING OF DISMANTLE MATERIAL AT STORE. Code No.9907000014	1	NO	157	157
43	DISMANTLING OF STREET LIGHT FIXTURE ON POLE WITH CLAMPS WITH CREDITING OF DISMANTLE MATERIAL AT STORE. Code No.9907000020	2	NO	105	210
44	DISMANTLING OF CONDUCTOR WITH CREDITING OF DISMANTLE MATERIAL AT STORE. Code No.9907000009	2	PER KM	620	1240
45	DISMANTLING OF GUARDING OF HT LINE ON ROAD /RAIL/TELEPHONE CROSSING WITH CREDITING OF DISMANTLE MATERIAL AT STORE. Code No.9907000021	5	PER MTR	29	145



Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

46	DISMANTLING OF GUARDING OF LT LINE ON ROAD /RAIL/TELEPHONE CROSSING WITH CREDITING OF DISMANTLE MATERIAL AT STORE. Code No.9907000021	5	PER MTR	29	145
47	REPLACEMENT OF 11 KV PIN INSULATOR & BINDING.	1073	SET	55	59015
48	REPLACEMENT OF 11 KV DISC INSULATOR WITH H/W AS PER SPECIFICATION.	250	SET	99	24750
49	REPLACEMENT OF FABRICATED MATERIAL	50	PER POLE	190	9500
50	LAYING OF H.T ARIAL BUNCH CABLE INCLUDING FITTING OF ALL ACCESSORIES	1	KM	22000	22000
51	LAYING OF 1-PHASE LT ARIAL BUNCH CABLE INCLUDING FITTING OF ALL ACCESSORIES	10	KM	4400	44000
52	LAYING OF 3-PHASE LT ARIAL BUNCH CABLE INCLUDING FITTING OF ALL ACCESSORIES	2	KM	11000	22000
53	PROVIDING/REPLACEMENT OF HG/DO FUSE COMPLETELY	20	SET	545	10900
54	PROVIDING/REPLACEMENT OF A.B SWITCH SET ALL COMPLETELY	20	SET	593	11860
55	TRIMMING OF TREE BRANCHES	390	NO	30	11700
Total Rs. [A]					499874/-
Bidder's Offer (+/-) in % [B]					
Grand Total [C = A +/- (A*B)]					
Goods & Service Tax [D = C X GST %] (GST Rate: %) SAC Code:					
Grand Total Including GST [E = C+D]					
Final Offer (In Rs)					
Final Offer (Rs. In Words)					

UGVCL
Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

The Bidder shall quote FIRM Prices only. The prices quoted will not be subject to any escalation till completion of work.

Nut & bolt will be supplied by U.G.V.C.L. If same are not available with UGVCL & Provided by Contractor then it will be reimbursed after producing of bill as per last purchase of company. At present it is Rs. 57 per Kg (Including GST).

The above prices are inclusive of all taxes,levies Duties etc. except Goods & Service Tax (GST). **GST will be paid extra as applicable from time to time on a given taxable goods and/or services.**

Note: Work for or within the jurisdiction of PATAN division.

Seal & Signature of Bidder

**Executive Engineer
UGVCL, DIVISION PATAN**

GENERAL INSTRUCTION TO TENDERERS

1. Sealed Tenders are invited for the work of **Supply of Cement Block for various SDn under Division Office Patan UGVCL** from the contractors/firms who have executed works of similar nature and magnitude successfully.
2. **Date of Demand Draft should not be older than 10 Days from the last date of receiving of tender.**
3. Tenders are in two bids system i.e. **“Technical Bid”** and **“Price Bid”**.

Technical bid should be submitted with documents as under, failing which tender is liable for rejection.

- a. Solvency certificate issued from any Nationalized/Scheduled Bank amounting to sum equivalent of estimated cost
 - b. PAN Card
 - c. EPF Registration And EPF Paid Challan copy
 - d. Insurance copy
 - e. Latest income tax Return Copy
 - f. Experience certificate for similar work
 - g. Electrical contractor license if applicable
 - h. Labour license if applicable
 - i. GST Registration if applicable
 - j. D.D of Tender Fees & EMD
- (Bidders Who Deposit Tender Fees & EMD at UGVCL Patan Cash Window Should mention receipt no & date in tender copy)

The above documents should be submitted in form of attested true copies along with technical bid.

4. **The sealed price bids comprising of Schedule-‘B’ should be submitted in separate sealed envelope subscribing the envelope as “Price Bid” & also subscribing the name of the work and tender opening date etc.**
5. **Bidder must submit both Technical Bid & Price Bid separately. Failing any of one bid cause for rejection of tender.**

- 6. Envelope without subscribing "Price Bid" or "Technical Bid" will not be accepted & Tender will be rejected.**
7. The bidders shall submit their offer without any deviations in general terms and conditions of the contract or in Technical specification/items. Tenders of such deviations may also be rejected. Incomplete and conditional tenders shall not be considered.
8. The rates shall be quoted both in words and figures as per unit specified in schedule-'B' in case of any discrepancy between the rates quoted in words & figures, rate quoted in words will prevail.
9. Intending bidders should submit their tenders after studying all tenders documents carefully and visiting the site for satisfying themselves of actual site conditions, location and accessibility of site and nature, extent of the work involved etc. Submission of tenders implies that bidders have obtained all necessary information and other data required for executing the work.
- 10. Successful Bidder is bound to work under any S/Dn of Division Office Patan if require. Concern authority may transfer your total/partial order to any S/Dn of Division Office Patan & Bidders is bound to work there with the same rate, conditions & without any type of extra charges.**
- 11. Penalty clause: in case, the work is not completed within the period stipulated in the sub work order, penalty shall be levied at 0.5 per week on the total sub work order subject to maximum 10 % of respective sub work order.**
12. All the works shall be carried out as per company standard specifications & work quantity may be increase or decrease during actual work within order amount.
13. Tenders, which do not fulfill all or any of the conditions of the tender of incomplete in any respect, are liable to rejection.
14. UTTAR GUJARAT VIJ COMPANY LTD, reserves the right to reject any or all tenders without assigning any reason thereof.

Contractor's signature with seal.

Executive Engineer
Patan

SPECIFICATIONS

For erection work of 11 KV Transmission lines.
LT distribution lines and transformer sub-stations.

ERECTION OF HT AND LT LINES.:

(a) Site clearing and tree cutting which come in the way of line will be done by the contractor at his cost. Any claim for compensation in above respect will have to be borne by the contractor.

(B) Fixing : Pole position :

The position of pole structures guys and earthings will be fixed by the department and shown to the contractor. He shall adhere to these locations in all circumstances unless. Directed by the department to make any change.

(c) Pole setting :

Where poles are set in good solid ground the depth of pit shall be 1/6 the height of the pole and for grounds of any other nature depth of the pit shall be decided by the department. The poles and guys must not be set at the edge of cut/at shore/ embankments where soil is liable to be washed or eroded out such setting should be avoided while back filling, the each must be packed tight and in no case must earth be dumped to greater depth than four inches without being rammed hard before the next layer is thrown in extra earth should be packed around the poles and rammed.

The cost of damage done to the pole during the erection will be recovered from the contractor. No pole which is out of plumb or out of alignment shall be accepted. The contractor will keep the poles and other materials in his safe custody in erected and he is liable to compensate to the Company the full cost of same along with supervision charges, if the pole is broken during the erection or stolen from him custody. He should be able to render full account of the poles entrusted to him whenever the supervising officer demands to scrutinizes the same.

1. Erection of Complete Single Pole Structure.

Erection of single pole structure comprises of shifting of pole from the place in the village to the site of actual work in that village excavation of pit erection in position (with base place where required) of 26' to 33' PSC poles 60 lbs/Yds. 30' to 42' long rail or suitable size girder or any other suitable pole fitting up clamps and cross arms and fabricated materials etc. Complete as per drawing inclusive of numbering fixing of caution Company and anticlimbing device. All size of Bolts and Nuts required should be used by the contractor at his cost.

All the fabricated materials such as cross arms clamps turn buckles etc. fitted on the PSC poles of RCC poles should be painted first coat with red lead paint and then two coats of aluminum paint. The tendered has to use all the paints at his cost and should got approved by the Engineer-in-charge before use.

-Do- same as item No.1 (a and also including painting of steel poles)

2. Special two poles structures.

Special two poles structures such as for HT line tapping Railway crossing any other HT, LT or telephone line crossing, terminal structure comprises of excavation of suitable pits and refilling of earth, erection in position of two numbers 26' to 33' PSC poles 60 lbs/Ybs 30' to 42' long rails or any other suitable poles fitting of clamps and cross arms. Cross bracing etc. as per drawing inclusive of mounting H.G.Fuses (or A B Switch or HT metering equipments etc. numbering, fixing of caution Board and anticlimbing device. The D.P. must be properly aligned and must be special structure if included will be erected as per drawing supplied. A size of

UGVCL
Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

bolts and nuts required for fitting the fabrication should be used by the at his cost including painting as per item No.1.

3. Stringing of Conductors.

This includes stringing of standard and solid bare conductors with fitting has necessary HT/LT pin and strain insulators, binding on insulators, jumpering jointing, The jointing in HT line will be done by twisting sleeve joints as per standard practice, Care must be taken in handling the conductor must not be drawn over tough or rocky ground, where it is liable to be damaged Alluminium and ACSR conductors must be drawn on wooden or alluminium pulleys only the conductor or coil must not be dropped Westage and cutting should be avoided as far as possible, Not more than 5% scrap will be accepted in the material account drawing to the proper tension. The sag and spans will be maintained as per drawing and design. The cross arms and insulators must be so fixed that neither tills or bends in any position. The rate quoted should be per conductor route kilometer.

The span and sag. However may vary according to sizes of poles available but these dimensions will be specified by the field Engineer before commencement of work.. The sagging should be uniform for all conductors and uneven sagging will not be allowed.

4. Stringing of Continue cuss Earth Wire.

Where required the stringing of G.I. Wire No. 1 or S.W.G. is to be carried out for continuous earth wire and sag should be kept appropriate as per the conductor and continuous earth wire should be fixed on cross arm by using "OII" size bolts nuts and washers. The required bolts nuts and washers should be used by the contractor at his cost. All the fabricated cross arms sifted on the pole should be connected to the earth wire by G.I.Wire.

4.(a) Guarding.

The guarding will have to be provided between crossing of HT and LT lines below the entire railway crossing. At the crossing at the crossing to telephone or telegraphs line (Licensee's HT and LT lines are passing below Company's HT line) road crossing and such other places as indicated by the department. The work comprises of fixing of guard cross-arms, eye bolts guard cradle as per design.

Binding cross arms must be used where the HT line crosses the road. A clearance of 20 ft. must be available for all road crossing. The poles for road crossing must be concreted. The work has to be carried out as per drawings specially prepared for the purpose Guarding for railways crossing is to be carried out as per instructions of the Engineer-in-charge.

5. Erection of Stay set.

The erection of stay comprises of excavation of pit of 2'x2'x4' depth burying stay rods anchor plate, fixing of turn buckle binding of GI Stay wire. The stay insulators must be inserted in the stay wire on all stays as per drawing. The wrapping of the Guy wire strands at both ends at the stay insulator must be even and must present neat appearance and good workmanship. No stay should be left loose but should be tight and straight to withstand any cyclone or stand storm. The item includes refilling of earth and painting paint should be used by the contractor at his cost.

If the guys are not required to be concreted, a per-casted cement concrete block will be supplied by the department at his divisional store at Vijapur which the contractor will have to transport at his cost to the site of work and will have to use for fixing the guy road rate includes transportation and using the same in place of cement concerting of the guy. If the block is damaged during transport the cost of same will be recovered from the contractor.

6. Cement concreting for rail of R.S.J. pole or stay rod should be carried out in preparation 1:3:6 i.e. one part of cement three part of washed river sand and six part of well burnt brick-bat of 1x 1FF" size metals. The mixture should be prepared on the GI sheets and should be free from the dust the river sand, cement and the metal or brickbat should be used by the contractor at his cost.

7. Concreting for muffing of poles or stay rods should be as per item No. 6 above and size of the boxing provided should be Dia. Of 1.5 feet X height 3 feet and 1.5 feet should remain below the ground level and 1.5 feet should remain above the ground level.

8. Earthing

A pit of 2'x2'x6' is to be dug about 3' away from the pole on which earthing is required to be carried out. The earthing pipe supplied should be erected in the pit and should be hammered in the ground as far as possible and G.I.Wire for earthing should be bolted with the pipe and should be connected with earth wire of the pole by means of bolt 10 kg. of common salt and coal-dust should be provided per earthing by the contractor at his cost. Bolts nuts and washers should be used by the contractor at his cost.

9. Erection of Pole Mounted Transformer Center.

This work includes erection of special two pole structure as per item No.2 and fixing of all fabricated materials for support of line, L.A.H.G. fuses. A.B. switches transformer L.T. Dist. Box etc. The work includes of transportation and hoisting of transformer fixing of H.G. fuses A.B. switch L. As Distribution Box bilding numbering and V.I.R. or P.V.C. wiring and prodding two earthings as per the specifications and the instructions of the Engineer-in-charge including painting.

- (a) Up to and including 100 KVA
- (b) –do- as above but transformer above 100 KVA capacities.

10. Painting of Transformer Structure.

All the fabricated materials used on the structure including the poles, also should be painted first with on coat of red lead and then with two coats of good quality of alluminium paints should be applied by the contractor at his cost. The paint should be got approved by the Engineer-in-charge before use.

- (a) same as above vat for P.S.C. poles.

11. (a) Fixing of Street light Fixture.

The work comprises of fixing of nipples, holders D.C. reflectors and wiring of the same the fixture should be fixed on the poles with two pairs of clamps and a kit kat fuse should be provided on the pole. All the materials required for the same will be supplied by the department from the store which the contractor will have to transport at his cost 3/8' size bolts and nuts should be sued by the contractor at his cost, for A type street light brackets.

- (b) –do- as above by for 'b' type brackets.

UGVCL
Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

Patan.

GENERAL

The work should be strictly as per specification and approved designs of the company, which can be supplied by the Engineer-in-charge for reference at the request of the contractor. The inferior and unsatisfactory work is liable to be rejected.

Before commencing the erection of lines the contractor will be provided with the schedule and the detailed layout. The work will have to be carried out as per programme laid down by department and under the entire supervision of field engineer and contractor should employ supervisor who could supervise the work through out and he should remain present on site.

Marshy or water logged location must be avoided as per as possible. It is becomes inevitable locate poles at such points, special precautions about foundation will have to be taken and work carried out as per instruction of the Engineer-in-charge.

The spans shall be specified in the poles schedule and the minimum spacing between the power conductors and conductors and neutral shall be as shown in approved drawings.

No tools will be supplied by the department. The work if found inferior and not to be standards of Company is liable to be rejected at the risk and cost of the contractor, any expenditure incurred for rectification work carried out departmentally or by employing hangamy labour will recovered from his R.A. Bills. If the contractor fails to rectify the inferior work done by him inspite of the instructions to rectify the same.

Contractor will have to submit the certificate of work of the IInd Class Wireman under whose under whose supervision the work has been carried out.

IMPORTANT

Before starting the work (new alteration or addition) and during the works. The contractor must obtain line clear wherever necessary from the concerned officer of this Department or other during transport of erection non observance of rules the responsibility of the contractor.

All conductors Earth and stay set must be tight stay rod pit must be as per the specifications.

All the poles must be in plumb
Fabrication fitting on pole must be tight
Generally following span should be kept on HT line

- (1) 28 Ft or 30 Ft. long _____ 250 Ft. 70/80 Meters Average
(2) 33 Ft long pole _____ 300 Ft.

All road crossing must be provided with bridging arrangement and minimum 22 Ft. clearance must be kept between conductor and road level.

LT lines, in open field with 5 wires will have at least span of 60 Meters on an average.

So long as line is not handed over to the company the responsibility of its safe custody of all the fixture and materials etc. lies with contractor.

PROCEDURE OF STORES

(A) ISSUE OF MATERIALS

The following materials shall be supplied by the Company free of cost for use of the works contracted for and will be issued as and when required from Divisional Store. The transport will have to be arranged by the contractor at his cost. (except PSC poles)

LIST OF MATERIALS

- (1) A.C.S.R. and All aluminum conductor
- (2) The poles will be supplied by Company within a radius of about 5 Kms. From the place of works.
- (3) HT/LT insulators with hardware.
- (4) Cross arms clamps bracing of required sizes
- (5) Stay wire G.I.Wire
- (6) Transformer, LT Dist. Box, HT/LT lighting arrestors, pipe fitting of transformer center wiring V.I.R. wire for transformer centres, H.G. Fuses, A.B. switches.
- (7) Danger Board, anti climbing device or barbed wire, earthing pipe.
- (8) Aluminum tape and binding wire P.G. Clamps.
- (9) Stay tighteners stay rods and stay block whenever necessary.
- (10) V.I.R. wire and reel insulators for overhead V.I.R. line narrow streets.
- (11) Street light work.

The rates quoted should be inclusive of transporting to site from the above store erection and setting to work.

The following materials will be supplied by the contractor at his cost for which no payment will be made.

1. Aluminum and red lead prints of approved quality.
2. Salt sand cock for earthing.
3. Paint for numbering.

(B) The quantities mentioned in schedule are approximately Actual quantities may increase or decrease according to the local condition. The department reserves the right for revising or omitting any of the quantities to be credited during the execution.

(C) The contractor will draw and will be given only those materials and in anticipated quantities that are just sufficient for the works to be carried out by him. The contractors should first intimate his requirement to the concerned field Engineer who will approve the list and as per this list, the materials can be drawn from the Stores.

(D) The materials will be issued to the contractor himself or his duly authorized representative only in case if any authority or power of attorney is to be ruminated. Action instruction in this respect must be intimated by Registered post to the Executive Engineer and concerned sub-divisional officer.

(E) The contractor must get the approved requisition three days before he requires the materials on site from the Engineer-in-charge.

UGVCL
Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

**Executive Engineer
Patan**

All the above instructions stated above are accepted by me unconditionally.

Signature of the Contractor.



Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

TERM AND CONDITIONS

1. The contractor will have to give the following undertaking.

A. Should this tender be accepted I/we hereby agree to a bid by fulfill all the terms and provision of the tender and contract of works as applicable and in fault there of to forfeit and pay to the company the sum of money due.

B. The full value of earnest money deposit paid herewith should be absolutely forfeited to the Company, should I/we not deposit the full amount of specified Security Deposit, within specified time limit.

2.(A) The contractor shall co-operate with the Company in recording measurement etc. as expeditiously as possible and he shall fulfill all the requirements which are necessary to finalize his outstanding bills within one month from the date of completion of work. Failing which the Company shall finalize the account on the basis of its records and pay him such amount as found due to him together with the amount of Security Deposit, if any, remaining payable to him after deducting there from the amount due by him to the Company for shortage of materials rectification in complete work etc. and the Company shall not entertain any further claim from him thereafter.

2.(B) The competent authority can delete any item in schedule 'B' on the tender if he feels that the rate quoted by the contractor for that item is abnormally high when compared to the estimate rate.

2.(C) In case of any dispute E.E. will be the final authority for deciding the same and his decision will be final and binding on the contractor and Department and no further appeal will be entertained.

3.(A) The contractor will have to see that safety equipments are used by his laborers etc. While working on line, equipment etc. of the Company and he will be responsible for the same.

3.(B) The contractor will have to under taken responsibility of accidents etc. for his persons working on line and same will be on stamped paper of Rs.22/10 or the appropriate value (if revised by Gove) The cost of stamped will be borne by contractor.

3.(C) The contractors will have to take insurance of suitable amount for his labours.

3.(D) The contractor will have to give the Bank Guarantee, against solvency which will be 20% of contract value No materials will be issued, if contractor fails to furnish the Bank guarantee of appropriate value.

3.(E) Contractors should be carried out the work under supervision of UGVCL.

Signature of Contractor.

**Executive Engineer
Patan**

UGVCL
Uttar Gujarat Vij Company Ltd.

Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

GENERAL CONDITION OF CONTRACT

1. Earnest Money Deposit

(a) Earnest Money deposit (1% the estimated cost) as indicated on the face sheet should be paid by the tenderer along with the tender in cash or by Demand Draft on any schedule Bank in favour of Uttar Gujarat Vij Company Limited in which case receipt shall be attached with tender invariably.

(b) Tender without earnest money will not be considered for acceptance.

(c) Earnest money Deposite will be forfeited in case the successful denderer after his tender has been accepted fails to pay the prescribed security deposit and execute the contract on a non-judicial stamp of appropriate value at his own cost and sign the contract booklet proceed at 0.50 ps.

2. Validity of tenders.

All tenders shall be open for acceptance by the company for a period of 90 days from the date of opening the tenders and may be further extended to 30 days required and the tenders shall be bound to execute the work on acceptance of his tender within this period.

3. Acceptance of tenders.

(a) The Company does not bind itself to accept the lowest or any tender neither with any reason be assigned for the rejection it is also not binding on the company to disclose any analysis reports on the tender.

(b) Accepting authority reserves the right of rejection of any or all tenders without assigning any reason thereof.

(c) Any tender which does not comply the above requirements is liable to be rejected.

4. Security Deposit.

The lowest tenderer whose tender is accepted shall have to pay 5% security deposit of the tender cost out of 2.5% is payable in cash within 8 days from the receipt of the acceptance order and the balance 2.5% will be recovered from the 1st two R.A. bill or in the first and final bill.

5. Contract Docuemtns.

The lowest tenderer whose tender is accepted will have to execute as stamped agreement in standard from of the Company and will have to sign the contact booklet in viz. Tender an contract for works at his own cost. In case of partnership firms necessary partnership documents records will have to be produced for verification by authority to sign the bills measurements and enter in to contract as well as correspondence with the Company. Wherever required necessary power of attorney will have to be produced specially when the partnership deed is silent on the point of authority of deal with the Company the contractor will have to execute the documents and sign the booklet tender and contract for works before starting the work.

6. Jurisdiction.

Any dispute or difference arising under out of in connection with the contract shall be subject to the exclusive jurisdiction of Patan.

7. Time Limit

The work should be completed within months from the date of receipt of commencement order otherwise penalty (a) 0.5% per day subject to maximum of 10% of the work order value will be imposed for late completion of the work.

8. Materials.



Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

(a) In case of shortage loss or damage of materials the cost of the same will be recovered from the contractor at stock issue rate or prevailing market the time of finalization of bill whichever is higher 15% overhead charges.

(b) The contractor will be fully responsible for any damage, breakage loss or theft of materials during transit or erection, issued to him from stores till the time the work is handed over to taken over by the Company. The Cost of loss or damage shall be recovered from him.

(c) The contractor at the time of taking materials from the stores. Shall have to give letter of authorization in triplicate to the concern division store specifically stating and would sign the requisitions for and on behalf of the contractor and shall be binding upon the contractor.

(d) All materials supplied to contractor shall remain the absolute property of the Company and shall on no account be removed from the site of the work and shall at all time be open to inspecting by the Engineer-in-charge.

Any such materials remaining unused and in perfectly good condition at the time completion of the contract shall be returned to the Company store for which no carting charges are payable to the contractor.

(e) The contractor will have to make his own arrangements to keep the materials under lock key and he will be responsible for theft of loss on account of any reason whatsoever.

9.(a) Additions and alterations of any kind in tender forms, conditions etc. by the tender without the consent of the undersigned is not permissible.

9.(b) If in any item the rates are above estimated rates but the total is within the estimated amount then while paying the R.A.Bill contractor will be paid at estimated rate and the difference will be released in the final bill.

10.(a) The tenderer must quote his rates unit specified in the schedule in figures as well as in words if there is difference between rates quoted in words and figures rates quoted in words shall prevail. Further should there be any discrepancy between rate and amount then rates shall prevail.

(b) The tenderer must quotes his rates net lowest and the rates not conforming to the unit specified in schedule may be not be considered even through they may be lowest.

(c) The prices must be stated for each item separately and in addition the percentage of reduction in the local price if any should also be quoted.

(d) Any variation in rates etc. will not be allowed on any ground once the tender submitted is opened for consideration.

(e) The tenderer's own condition of the contract will not be considered as forming the part of the tender. The tenderer must sign the tenders.

(f) All correction what so ever made in the tendered rate must be signed fully with date by the tenderer before submitting the tenders.

(g) Rates must be quoted without any conditions in case of divergence between rates in figures and words. It will be constructed to read the rate most favorable to Company.

11. Totaling up of figures.

While quoting the rate per unit against each item Tenders are required as well as grand total of the work in figures and words.

12. Addressing Tenders.

Tenders must be submitted in **envelopes** which must be **properly sealed** by the tenderer with their office seal and must be super scribed with the following a tender No. and the name of the proposed work (b) Returnable date and time of tender. It is the responsibility of the tender to see that the tenders are received in Company's office tender Box within the stipulated time and date the envelope must **bear full address of the tenderer.**

13. The Company's general conditions of contract will apply to all the contractors and he is deemed to be fully aware of the company's general conditions of contract for the works in respect of security deposited terms of payments penalty for late completion of work etc. any ignorance of these conditions will not exempt the contractor from the liability to abide by the same (Copies are available from the Company's office at 0.50 paisa only).

Submission of a tender by a tenderer implied that he has read the instructions and condition of contract contained in booklet and has made himself aware of the scope and specification of the or to be done and of the conditions and rate at which stores etc. will be issued to him and local conditions and other factors bearing on execution of work.

14 (a) If the contractor stands lowest for more than one tender it will be at the discretion of the competent authority whether to award more than one work or not without assigning and reason therefore.

15. Before starting any work on line or pole etc. by the labourers of the contractor it will be the responsibility of the contractor to obtain line clear from the concerned officer the Company in not liable for any injury or damage to contractor's workman or his equipment respectively during execution of this contact and the Company will not pay any compensation for any reasons whatsoever.

The contractor is also responsible for any damage to private property i.e. standing crops in farms of Gram Panchayat or Private property.

16. The contractor shall not demand or accept and help from the intending consumers in line erection works or in transport of materials.

17. The erection work should be started from the date of commencement given in the order and should be completed within the prescribed period for each work the contractor is bound to complete the work within the specified period of each work given by Executive Engineer.

18. Extension of time limit.

It for any reasons the contractor is not in a position to complete the work within the stipulated period he should put his application to the Engineer-in-charge before one month of the expiry of the stipulated time limit of completion of work for the extension of time limit giving valid reasons for there required extension.

19.(a) In case of any non supply of materials from stores, the contractor will have to intimate the S.D.O. as well as the divisional officer quoting the M.R.No. and date for non receipt of materials the intimation will be considered for extension in time limit.

In case the contractor fails to act as above delay on this ground will not be accepted.

20. Priority of work would be decided by the Executive Engineer and contractor shall carry out the work within the stipulated period of the order by the Executive Engineer.

21. The contractor must have adequate resources and gang of unskilled personnel to undertake the work at different places simultaneously.

22. The contractor will be given separate order separate order for each work on the basis of the rate contract order the date of completion of work will be stipulated in the order which the contractor has to agree otherwise the penalty will be livable from the late completion of work as company's standard conditions.

The R.A. bills and final bill will be admitted against this order and will be finalized accordingly.

23. If during 12 calendar months from the date of handing over charge after completion of work the erected lines are found defective in any way the same should be rectified by the contractor at his cost and risk.

24. The contract will remain in force for the period of one year from the date as mentioned in the detailed order.

25. TERMS OF PAYMENT:

(a) The payment will be made to the contractor by crossed/Account payee cheque on local Bank subject an advance stamped receipt being received from payee.

(b) The total payment through all the R.A.Bills combined to gather will not exceed 75% or the order value of the sub-order placed against the annual rate contract.

(c) In respect of electrification of village/Erection of transmission and distribution lines works contracts.

The payment to the contractor through R.A.Bill will be made only after 50% of work is done and provided the contractor furnishes the materials accounts in respect of previous R.A.bills shall not be made R.A.Bills will not be aid without recording the measurement and the preparation of material account.

26. RECORDING OF MEASUREMENT IN THE PRESENCE OF CONTRACTOR.

(a) If case of work carried out satisfactorily by the contractor.

In the work has been carried out satisfactorily the contractor with prior intimation from the company's officers shall have to witness the recording of measurements on the appointed date within one month of the completion of work.

It the contractor fails to remain present on the appointed date a notice under Registered cover with A.D. will be served on him to witness the recording of measurement by prior appointment with the Company's officer within ten days of the receipt of notice or within such extended period applied for by the contractor and granted by the company's officer if the contractor still fails to come for recording of measurements within the original or extended period of time granted by the company's officer, then the recording of measurement will be carried out there after unilaterally by the company's officer and the Final Bill finalized as per measurements, recorded by the company's officer and the same shall be binding on the contractor no request than will be entertained.

(b) In case of work not carried out satisfactorily.

In case of work not carried out satisfactorily, either during the progress of work or on its completion the conditions as specified vide conditions No.5 read with condition No.4 (b) of tender and contract for works



Near Gandhi Bag, Division Office Patan-384265, Phone No. (02766) 230439
CIN: U40102GJ2003SGC042906

booklet shall apply and the recording of measurements shall be done within one month of completion of work after rectification of defects by contractor or by the Company at the contractor's cost as the case may be and any further delay in the recording or measurements and finalization of the final bill due to the fault of the contractor shall be subject to the conditions as laid down in clause 9 (a) above of the contract booklet.

27. SUBMISSION OF ACCOUNTS BY CONTRACTOR.

The contractor shall submit materials account with each R.A.Bill also he shall on completion of the work have to prepare and render the final detailed materials account of the materials received by him from the Company's store within one month from the date of completion of work if however the contractor does not render the materials accounts a notice shall be issued to be contractor under Registered A.D. to render the materials account within ten days from ten date of issue of the notice in default, the materials account and procedure which shall have to be accepted by the contractor and disputes if any raised shall not be entertained the balance materials also will have to returned by the contractor within one month from the date of completion of work otherwise Company is not liable to accepted at a of date.

28 (a) The contractor will not be allowed to transfer materials from one work to another without written permission of the field officer justifying the reasons for such transfer.

28 (b) The contractor will have to use the materials for which they are drawn.

29 Any rules framed or instructions issued regarding contractor by the Company or its representative after awarding this contract shall also from part of this contract and will be binding to the contractor.

On completion of work contractor will inform the Dy.Engineer concerned in within and Dy.Engineer will see that if any rectifications are to be carried on that work will intimate the contractor 15 days in writing from the date of receipt of the letter from the contractor giving him time limit of 7 days to carry out the rectifications pointed out.

If the contractor fails to do the rectification, addition, or alterations etc. within the above time limit of 7 days then the same will be got done through other agency or Deptt Labour at the risk and cost of the contractor without giving any further notice or any intimation. No complaint will be entertained from the contractor in this regards and amount will be recoverable with 15% supervision charges.

Signature of the Contractor

**Executive Engineer
Patan.**