## NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)



KfW Development Bank (No.: 2015 68 112)
Reconstruction and Improvement of Electricity in Earthquake Affected
Districts of Rasuwa and Nuwakot
Electrification Component
Rasuwa Nuwakot Distribution System Reconstruction and Improvement
Project

## BIDDING DOCUMENT FOR

Design, Supply and Installation of Electrification Component consisting of 33/11kV New Substations and associated 33kV, 11kV & 0.4kV Lines

## Single-Stage, Two-Envelope Bidding Procedure

Issued on: 9 July 2019

Invitation for Bids No.: ICB-REIP-REC-2019-01
ICB No.: ICB-REIP-REC-2019-01
Employer: Nepal Electricity Authority

Country: Nepal

VOLUME 1 OF 3

Rasuwa Nuwakot Distribution System Reconstruction and Improvement Project Distribution and Consumer Service Directorate
Planning and Technical Service Department
Nepal Electricity Authority
Ratnapark, Kathmandu
Phone No: +977 1 4153147

Design, Supply and Installation of Electrification Component works consisting of 33/11kV New Substations and associated 33kV, 11kV & 0.4kV Lines under Reconstruction & Improvement of Electricity in Earthquake

Affected Districts of Rasuwa and Nuwakot

(Schedule of rates and prices)

Bidder's Name & Address:

Plant and Equipment including mandatory Spares to be supplied from abroad including Type Test Charges for Type Tests to be conducted abroad

1	2	3	4	5	6.00	7	8	9 = 6 x 8
SI. No.	Item Description	Country of Origin	Type & Designation	Unit	Quantity	Currency (As per ITB 19.1)	Unit CIP Entry Border Point / CIF Port of Entry Price (^), as applicable	Total CIP Entry Border Point / CIF Port of Entry Price (^), as applicable
A	Construction of new 33kV Single Ckt Line for Kalikasthan Substation (5 kms)							
1	Supply of ACSR Dog Conductor (100 Sq mm)			Km.	15.75			
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)			No.	120.00			
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.			MT	7.45			
4	33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS			No.	330.00			
5	70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS			No.	240.00			
6	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator			No.	330.00			
7	Nuts & Bolts ,Washers (plain and spring)			MT	0.75			
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set			Set	50.00			
9	Guy Strain Insulators designation 'C'			No.	100.00			
10	Stay wire (7/8 SWG or 7/4 mm )			Kg.	456.25			

11 Supply of 40 mm dis 3000 mm long Gilpipe (medium grade) earth electrodes alongwith charmong arrangement to connect 8 SWG Given as per TS  12 Gi WIRE 8 SWG for certaining & guarding purpose Kg. 835.15  1 Sub- Total (A)  8 Construction of new 38kV Single Ckt Line for Ratmate Substation (2 kms)  1 Supply of ACSR Dog Conductor (100 Sq mm)  2 11 mit long Galvensed Steel Tubular Pole of 410 grade (410 SP-54)  3 Fabrication and Supply of MS. Galvensed steen. Pole Top Bracket. V-Cross am D P Charmel D P Charmel D P Charmel Lower of the Composition of the Composition of Supply of MS. Galvensed steen. Pole Top Bracket. V-Cross am D P Charmel D P Charmel Lower of the Composition of Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of Action and Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of Action and Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of Action and Supply of MS. Galvensed steens, Cuerting at the Composition of Supply of Action and Supply of Action an						
Sub-Total (A)	11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	20.00		
Sub-Total (A)	12	GI WIRE 8 SWG for earthing & guarding purpose	Ka.	835.15		
B Construction of new 33kV Single Ckt Line for Ratmate Substation (2 kms)  1 Supply of ACSR Dog Conductor (100 Sq mm) Km. 6.30  2 11 mtr long Galvanised Steet Tubular Pole of 410 grade (410 SP-54) No. 48.00  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm. Back Clamps for V-Cross arm. De Polement of De Polement Clamp, Stey clamps angle, Stay clamps side, D P channel, D P Channel Clamp, Stey clamps angle, Stay clamps side, D P cross tracing 3 clamps, Guarding arm etc complete as required.  4 33 kV Porcelain pri Insulator with 900 mm creepage distance alongwith 10 kN Pin, nut and washers complete as per TS  5 70 kN B&S disc insulator string (one string consisting of 3 nos disc insulator) No. 96.00  complete with all Hardware & accessories as per TS  6 Performed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator  7 Nuts & Bolts, Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Turnbuckle -1 no., Tilmribies -2 nos., Guy grips -4 nos., fisteeners to attach Anchor Plate to Anchor Rod (to complete 3 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wite (7/8 SWG or 7/8 mm)  11 Supply of 40 mm dia 3000 mm long Glippe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 sWG Gl wire as per TS  12 Gl WIRE 8 SWG for earthing & guarding purpose  13 33 kV, 400 Amp, 3 phase, vertical mounted AB switch for tepping point of existing 33kV line as per TS  5 Unit VHT LINE USING XLPE COVERED CONDUCTOR FROM KALINASTHAN SUBSTATION 14 kms)						
1 Supply of ACSR Dog Conductor (100 Sq mm) 2 11 mfr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54) No. 48.00  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, DP Channel, DP Channel clamp, Stay clamps engle, Stay clamps side, DP cross bracing & clamps, Guarding arm etc complete as required.  4 33 KV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin. nut and washers complete as per TS  5 77 KN RB SS disc insulator string (one string consisting of 3 nos disc insulator) complete with all Harr/ware & accessories as per TS  6 Preformed insulator insulator bringings (suitable for ACSR conductor) for 33 kV pin insulator Insulator  7 Nuts & Bolls Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Turrbuckel -1 no., Thimbles 2 nos., Guy grips -4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wire (78 SWG or 74 mm)  11 Supply of 40 mm dia 300 mm long Glip pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG Gl wire as per TS  12 Gl WIRE 8 SWG for earthing & guarding purpose  13 33 kV , 400 Amp, 3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALKASTHAN SUBSTATION (4 kms)						
2 11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 kN Pin, rut and washers complete as per TS  5 70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator  7 Nuts & Bolls, Washers (plain and spring)  8 Hardware Filtings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Tumbuckle -1 no., Thimbles -2 nos., Guy grips -4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wire (778 SWIG or 774 mm)  11 Supply of 40 mm dis 3000 mm long clippe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose  Kg. 334.06  13 33 kV, 400 Amg, 3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub-Total (B)  14 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	В	Construction of new 33kV Single Ckt Line for Ratmate Substation (2 kms)				
2 11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 kN Pin, rut and washers complete as per TS  5 70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator  7 Nuts & Bolls, Washers (plain and spring)  8 Hardware Filtings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Tumbuckle -1 no., Thimbles -2 nos., Guy grips -4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wire (778 SWIG or 774 mm)  11 Supply of 40 mm dis 3000 mm long clippe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose  Kg. 334.06  13 33 kV, 400 Amg, 3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub-Total (B)  14 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	1	Supply of ACSR Dog Conductor (100 Sq mm)	Km.	6.30		
arm, Back Clamps for V-Cross arm , D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  5 70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator 7 Nuts & Bolts , Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  9 Guy Strain Insulators designation 'C'  10 Stay wire (7/8 SWG or 7/4 mm)  11 Supply of 40 mm dia 3000 mm long Gl pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG Gl wire as per TS  12 Gl WIRE 8 SWG for earthing & guarding purpose  13 33 kV, 400 Amp, 3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	2		No.	48.00		
Pin, nut and washers complete as per TS  70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator  7 Nuts & Botts, Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wire (7/8 SWG or 7/4 mm)  11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose  13 33 kV, 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	3	arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc	MT	2.98		
complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator  7 Nuts & Bolts, Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips -4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wire (7/8 SWG or 7/4 mm)  Kg. 182.50  11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose  13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub-Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	4		No.	132.00		
insulator  7 Nuts & Bolts , Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C'  10 Stay wire (7/8 SWG or 7/4 mm)  11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose  13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub-Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	5		No.	96.00		
8 Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C' 10 Stay wire (7/8 SWG or 7/4 mm) 11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose 13 33 kV, 400 Amp, 3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	6	1	No.	132.00		
Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set  9 Guy Strain Insulators designation 'C' No. 40.00  10 Stay wire (7/8 SWG or 7/4 mm) Kg. 182.50  11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose 13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	7	Nuts & Bolts ,Washers (plain and spring)	MT	0.30		
10 Stay wire (7/8 SWG or 7/4 mm)  11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose  13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	8	Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach	Set	20.00		
10 Stay wire (7/8 SWG or 7/4 mm)  11 Supply of 40 mm dia 3000 mm long Gl pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG Gl wire as per TS  12 Gl WIRE 8 SWG for earthing & guarding purpose  13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	9	Guy Strain Insulators designation 'C'	No	40.00		
11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose 13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)		· ·				
13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)		Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes				
13 33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS  Sub- Total (B)  C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)	12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	334.06		
C 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)		33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of				
KALIKASTHAN SUBSTATION (4 kms)		Sub- Total (B)				
1 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS km 12.60	С	KALIKASTHAN SUBSTATION (4 kms)				
	1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	km	12.60		

1 In thir forg Calvaniende Sitee Tubular Pole of 410 grade (410 SP-64) 1 Febrication and Supply of NS. Calvaniesed lamps. Peb Top Barback V.Cross arm., Barb. Clamps for V-Cross arm., De To-barnell, DP Chamel clamp, Stary clamps angies, Stay clamps andies, Stay clamps andies, Stay clamps and Stay of the St						
arm, Back Clemps for V-Cross arm, D P Channel, D P Channel, D P Clamps, Guarding arm et complete as required.  4 11 kV Poxelatin pin Insulator with 900 mm creepage distance alongwith 10 kN Prin, rut and westers complete as per TS  5 11 kV, 70 kN B&S dide insulator complete with all Hardware & accessories as ap or TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin resulator insulator bindings (suitable for ACSR conductor) for 11 kV pin resulator insulator.  7 Nuts & Softs, Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor not - 1 no., Turnbucke 1 no., Pinchor not - 1 no., Turnbucke 1 no., Pinchor not - 1 no., Anchor red - 1 n	2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	-	96.00		
Pin, nut and washers complete as per TS  11 kY, 70 KN B&S disc insulator complete with all Hardware & accessories as per TS  6 Preformed insulator brindings (suitable for ACSR conductor) for 11 kV prin neuralizator  7 Nuts & Bolts, Washers (plain and spring)  8 Hardware Fillings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Turnbuckle-1 no., Thindbuckle-1 no., Thindbuckle-1 no., Thindbuckle-1 no., Thindbuckle-1 no., Thindbuckle-2 ros., Guy grips -4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set  9 Guy Strain Insulators designation 1°C  10 Slay wire (7/8 SWG or 7/4 mm)  Set 239.24  11 Supply of 40 mm dia 300 mm long Gl pipe (medium grade), earth electrodes along with clamping arrangement to connect 8 SWG Gl wire as per TS  12 Gl WiRE & SWG for earthing & guarding purpose  14 SUBSTATION (6 kms)  15 XPLE Covered AAAC (Normial Area 55 sq mm) conductor as per TS  16 Patrication and Supply of NJs. Galvariased items- Pole Top Bracket, V-Cross arm. Box Clemps of the Cross arm. De Charmel, De Charding damping and electroces as per TS  11 Intri long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)  13 Fabrication and Supply of NJs. Galvariased items- Pole Top Bracket, V-Cross arm. Box Clemps for V-Cross arm. De Charmel, De Charding damping and electroces are sequired.  4 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 kN MT A14.00  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	3	arm, Back Clamps for V-Cross arm , D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc	MT	4.60		
as per TS Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator No. 276.00 No. 27	4		MT	276.00		
insulator  7 Nuts & Boits, Washers (plain and spring)  8 Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Tumbuckle - 1 no. Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV slay set  9 Guy Strain Insulators designation °C'  10 Stay wire (7/8 SWG or 7/4 mm)  11 Supply of 40 mm dia 3000 mm long Gl pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG Gl wire as per TS  12 Gl WiRE 8 SWG for earthing & guarding purpose  13 Sub-Total (C)  14 VH T LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION (6 kms)  15 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS  16 In 1 In In Ing Galvanised Sieel Tubular Pole of 410 grade (410 SP-54)  17 In In Ing Galvanised Sieel Tubular Pole of 410 grade (410 SP-54)  29 In In the Ing Galvanised Sieel Tubular Pole of 410 grade (410 SP-54)  30 Fabrication and Supply of MS. Galvanised items - Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Slay clamps side, D P cross bracing & damps, Guarding arm etc complete as required.  4 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  5 11 kV, 70 KN B&S disc insulator complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	5		No.	168.00		
Hardware Fittings (1 set consists of Anchor plate -1 no., Anchor rod -1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips -4 nos., fasteners to attach Anchor Plate to Anchor Rod to complete 11 kV stay set  9 Guy Strain Insulators designation °C'	6	, , ,	No.	276.00		
Turnbuckle 1 no. Thimbles 2-2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod Jo complete 11 kV stay set  9 Guy Strain Insulators designation 'C' 10 Stay wire (7/8 SWG or 7/4 mm ) 11 Supply of 40 mm dia 3000 mm long Glipipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG Gl wire as per TS  12 Gl WIRE 8 SWG for earthing & guarding purpose 12 Gl WIRE 8 SWG for earthing & guarding purpose 13 Sub-Total(C) 14 KV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE 15 SUBSTATION (6 kms) 15 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS 16 Inting Galvanised steel Tubular Pole of 410 grade (410 SP-54) 16 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel damp, Stay clamps angle, Stay clamps sangle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  16 Preformed insulator with 900 mm creepage distance alongwith 10 KN Pin, ut and washers complete as per TS 16 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	7	Nuts & Bolts ,Washers (plain and spring)		0.46		
Stay wire (7/8 SWG or 7/4 mm )  Set 239.24  11 Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose	8	Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach	Set	40.00		
Set 16.00  Suply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose	9	Guy Strain Insulators designation 'C'	No.	40.00		
alongwith clamping arrangement to connect 8 SWG GI wire as per TS  12 GI WIRE 8 SWG for earthing & guarding purpose	10	Stay wire (7/8 SWG or 7/4 mm )	Set	239.24		
Sub-Total( C )  D 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION (6 kms)  1 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS  2 11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  5 11 kV , 70 kN B&S disc insulator complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	11		Set	16.00		
Sub-Total( C )  D 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION (6 kms)  1 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS  2 11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  5 11 kV , 70 kN B&S disc insulator complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	12	GI WIRF 8 SWG for earthing & guarding purpose	ka	550.20		
D 11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION (6 kms)  1 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS km 18.90  2 11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54) No. 144.00  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  5 11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator			9	000.20		
SUBSTATION (6 kms)  1 XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS						
2 11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)  3 Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  5 11 kV, 70 KN B&S disc insulator complete with all Hardware & accessories as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	D					
Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  MT 6.90  MT 6.90  A 11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  MT 414.00  To No. 252.00  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	km	18.90		
arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  4	2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	144.00		
Pin, nut and washers complete as per TS  11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS  No. 252.00  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	3	arm, Back Clamps for V-Cross arm , D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc	MT	6.90		
as per TS  6 Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin No. 414.00 Insulator	4		MT	414.00		
insulator	5		No.	252.00		
7 Nuts & Bolts ,Washers (plain and spring) 0.69	6		No.	414.00		
	7	Nuts & Bolts ,Washers (plain and spring)		0.69		

8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	60.00			
9	Guy Strain Insulators designation 'C'	No.	60.00			
10	Stay wire (7/8 SWG or 7/4 mm )	Set	358.86			
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	24.00			
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg	825.30			
	Sub-Total( D )					
E	STRENGTHENING OF DISTRIBUTION NETWORK IN DHUNCHE, GOLJUNG,GATLANG, GREY, HAKU, TIRU AND KALIKASTHAN					
E1	REPLACEMENT OF BARE CONDUCTOR OF EXISTING 11kV LINE (13 KMS)					
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	Km.	40.95			
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	1.43			
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	182.00			
4	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	104.00			
5	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	182.00			
6	Nuts & Bolts ,Washers (plain and spring)	MT	0.14			
7	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	52.00			
8	Guy Strain Insulators designation 'C'	No.	52.00			
9	Stay wire (7/8 SWG or 7/4 mm )	Kg.	310.96			
10	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	52.00			
11	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	1788.15			
	Sub-Total (E1)			1		

		<u> </u>		I I	<u> </u>	<u> </u>	
E2	NEW 11kV LINE USING XLPE INSULATED AAAC CONDUCTOR OF 55 SQ.MM SIZE (17 kms)						
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS		Km.	53.55			
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)		No.	408.00			
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.		MT	19.55			
4	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS		No.	1173.00			
5	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS		No.	714.00			
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator		No.	1173.00			
7	Nuts & Bolts ,Washers (plain and spring)		MT	1.96			
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set		Set	170.00			
9	Guy Strain Insulators designation 'C'		No.	170.00			
10	Stay wire (7/8 SWG or 7/4 mm )		Kg.	1016.77			
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS		Set	68.00			
12	GI WIRE 8 SWG for earthing & guarding purpose		Kg.	2338.35			
	Sub-Total (E2)		3				
E3	NEW LT LINE USING XLPE INSULATED AB CABLE OF 3C*35SQ.M+35 SQ.MM (21 kms)						
1	LT 3C X 35 + 35 (Insulated messenger wire) Sq.mm XLPE insulated AB cable with aluminium for phase conductor and aluminium alloy for messenger wire.		Km.	23.10			
2	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)		No.	588.00			
3	Fabrication and Supply of M.S. Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.		MT	2.94			
4	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable		No.	294.00			

5	Anchor clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	294.00	
6	Support hook for suspension / anchor clamps to be used for AB cable	No.	588.00	
7	Nuts & Bolts ,Washers (plain and spring)	MT	0.29	
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete LT stay set	Set	210.00	
9	Guy Strain Insulators designation 'A'	No.	210.00	
10	Stay wire (7/12 SWG or 7/2.5 mm)	Kg.	623.49	
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	84.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	2888.55	
12	Sub-Total (E3)	TNg.	2000.00	
E4	REPLACEMENT OF BARE CONDUTOR OF EXISTING LT LINE BY AB CABLE OF 3C*35SQ.MM+35SQ.MM (39 kms)			
1	LT 3C X 35 + 35 (Insulated messenger wire) Sq.mm XLPE insulated AB cable with aluminium for phase conductor and aluminium alloy for messenger wire.	Km.	42.90	
2	Fabrication and Supply of M.S. Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	MT	5.46	
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	546.00	
4	Anchor clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	546.00	
5	Support hook for suspension / anchor clamps to be used for AB cable	No.	1092.00	
6	Nuts & Bolts ,Washers (plain and spring)	MT	0.55	
7	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete LT stay set	Set	195.00	
8	Guy Strain Insulators designation 'A'	No.	195.00	
9	Stay wire (7/12 SWG or 7/2.5 mm)	Kg.	579.15	
10	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	156.00	
11	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	5364.46	

	Sub-Total (E4)				
E5	ADDITIONAL 8MTR LONG STP IN EXISTING LT LINE (120 nos)				
1	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	120.00		
2	Fabrication and Supply of M.S Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	KG	600.00		
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	120.00		
4	Support hook for suspension / anchor clamps to be used for AB cable	No.	120.00		
5	Nuts & Bolts ,Washers (plain and spring)	KG	60.00		
	Sub-Total (E5)				
E6	REPLACEMENT OF DAMAGED POLES BY 11MTR LONG STP IN EXISTING 11kV LINE (10 nos)				
1	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	10.00		
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	KG	572.50		
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	30.00		
4	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator	No.	30.00		
5	Nuts & Bolts ,Washers (plain and spring)	KG	57.25		
	Sub-Total (E6)				
E7	REPLACEMENTOF WOODEN POLES BY NEW 8 MTR LONG STP IN EXISTING LT LINE (60 nos)				
1	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	60.00		
2	Fabrication and Supply of M.S Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	KG	300.00		
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	60.00		
4	Support hook for suspension / anchor clamps to be used for AB cable	No.	60.00		
5	Nuts & Bolts ,Washers (plain and spring)	KG	30.00		
	Sub-Total (E7)				
E8	ADDITIONAL 11 MTR LONG STP IN EXISTING 11 kV LINE (25 nos)				

T		1					-	
Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.			KG	1431.25				
11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS			No.	75.00				
Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator			No.	75.00				
Nuts & Bolts ,Washers (plain and spring)			KG	143.13				
Sub-Total (E8)								
NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)								
Fabrication and Supply of M.S. Galvanised items- Stay clamps			Kg.	250.00				
Nuts & Bolts ,Washers (plain and spring)			Kg.	25.00				
Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to <b>complete 11 kV stay set</b>			Set	50.00				
Guy Strain Insulators designation 'C'			No.	50.00				
Stay wire (7/8 SWG or 7/4 mm )			Kg.	299.00				
Sub-Total (E9)								
NEW 3-PHASE DISTRIBUTION TRANSFORMERS								
Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS			No.	3.00				
Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS			No.	7.00				
Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding ,conservator and externally operated tap changer along with all accessories as per TS			No.	3.00				
Supply of 9 kV, 1 phase, 5 KA <b>porcelain housing LA</b> with disconnector with all accessories as per TS			No.	39.00				
Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS			Set	13.00				
Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA, DO fuse etc			KG	1300.00				
	clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator  Nuts & Bolts, Washers (plain and spring)  Sub-Total (E8)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items- Stay clamps  Nuts & Bolts, Washers (plain and spring)  Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set  Guy Strain Insulators designation 'C'  Stay wire (7/8 SWG or 7/4 mm)  Sub-Total (E9)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS  Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding, conservator and externally operated tap changer along with all accessories as per TS  Supply of 9 kV, 1 phase, 5 KA porcelain housing LA with disconnector with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  It kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator  Nuts & Bolts ,Washers (plain and spring)  Sub-Total (E8)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items- Stay clamps  Nuts & Bolts ,Washers (plain and spring)  Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set  Guy Strain Insulators designation 'C'  Stay wire (7/8 SWG or 7/4 mm)  Sub-Total (E9)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  Supply of 25 kVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS  Supply of 100 kVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS  Supply of 90 kVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS  Supply of 90 kVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding, conservator and externally operated tap changer along with all accessories as per TS  Supply of 90 kVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding, conservator and externally operated tap changer along with all accessories as per TS  Supply of 91 kV, 1 phase, 5 kA porcelain housing LA with disconnector with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator Nuts & Bolts, Washers (plain and spring)  Sub-Total (E8)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets) Fabrication and Supply of M.S. Galvanised items- Stay clamps Nuts & Bolts, Washers (plain and spring)  Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set  Guy Strain Insulators designation 'C' Stay wire (7/8 SWG or 7/4 mm )  Sub-Total (E9)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding, conservator and externally operated tap changer along with all accessories as per TS  Supply of 9 kV, 1 phase, 5 KA porcelain housing LA with disconnector with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA, DO	Fabrication and Supply of M.S. Galivanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator with suitable for ACSR conductor) for 11 kV pin insulator with suitable for ACSR conductor for 11 kV pin insulator with suitable for ACSR conductor for 11 kV pin insulator with suitable for ACSR conductor for 11 kV pin insulator with suitable for ACSR conductor for 11 kV pin insulator.  New STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items- Stay clamps  Nuts & Bolts, Washers (plain and spring)  Kg.  Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turmbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set  Guy Strain Insulators designation 'C'  Stay wire (7/8 SWG or 7/4 mm)  Kg.  Sub-Total (E9)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding conservator and externally operated tap changer along with all accessories as per TS  Supply of 9 kV, 1 phase, 5 KA porcelain housing LA with disconnector with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA, DO  KG	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps shore, V-Cross arm, D P Channel, D P Channel clamp, Stay clamps shore, Say clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.  11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pln, nut and washers complete as per TS Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator. No. 75.00 insulator.  Nuts & Bolts, Washers (plain and spring)  KG 143.13  Sub-Total (E8)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items- Stay clamps  Kg. 25.00  Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle - 1 no., Thimbles - 2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set  Guy Strain Insulators designation 'C'  Stay wire (7/8 SWG or 7/4 mm)  Kg. 299.00  Sub-Total (E9)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS  Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding, conservator and externally operated tap changer along with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA, DO  KG 1300.00	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel of Damp, Stay clamps and Stay clamps as display to P cross bracing & damps, Guarding arm etc complete as required.  11 kV Porcelain in Insulator with 900 mm creepage distance alongwith 10 kN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin No. 75.00 insulator  Nuts & Bolts, Washers (plain and spring)  KG 143.13  Sub-Total (E8)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items- Stay clamps  Nuts & Bolts, Washers (plain and spring)  Kg. 250.00  Nuts & Bolts, Washers (plain and spring)  Kg. 250.00  Nuts & Bolts, Washers (plain and spring)  Kg. 250.00  Nuts & Bolts, Washers (plain and spring)  Kg. 250.00  Nuts & Bolts, Washers (plain and spring)  Kg. 250.00  Nuts & Bolts, Washers (plain and spring)  Kg. 250.00  Nuts & Bolts, Washers (plain and spring)  Kg. 290.00  Set 50.00  Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set  Guy Strain Insulators designation 'C'  Stay wire (78 SWG or 7/4 mm)  Kg. 299.00  Sub-Total (E9)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  Supply of 55 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator and externally operated tap changer along with all accessories as per TS  Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding, conservator and externally operated tap changer along with all accessories as per TS  Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as per TS  Supply o	Fabrication and Supply of M.S. Cabvanised items - Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps side, D P cross bracing & clamps, Guarding ametic complete as required.  11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 kN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator.  Nuts & Bolts Washers (plain and spring)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items - Stay clamps  Nuts & Bolts Mashers (plain and spring)  NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)  Fabrication and Supply of M.S. Galvanised items - Stay clamps  Nuts & Bolts Mashers (plain and spring)  Nuts & Bolts Mashe	Fabrication and Supply of N.S. Galvanised items. Pole Top Bracket, V-Cross arm. Back Clamps for V-Cross arm. D P Channel, D P Channel damp, Stay damps angle, Stay damps side, D P cross bracing & clamps, Guarding armete complete as required.  14 N Porcelain in Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS  Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator suitable for ACSR conductor) for 11 kV pin insulator suitable for ACSR conductor for 11 kV pin insulator suitable for ACSR conductor) for 11 kV pin insulator suitable for ACSR conductor for 11 kV pin insulator suitable for ACSR conductor for 11 kV pin insulator suitable for ACSR conductor for 11 kV pin insulator suitable for ACSR conductor for 11 kV stay set insulator for a suitable for ACSR conductor for 11 kV stay set insulator for a suitable for Action

	Tu	T			1	1	
7	Nuts & Bolts ,Washers (plain and spring)		KG	130.00			
8	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes		Set	39.00			
	alongwith clamping arrangement to connect 8 SWG GI wire as per TS						
9	LT Distribution box (compatible to IP-55 enclosure protection) with suitable		No.	3.00			
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT						
	feeders suitable for 3-Phase 11/0.400 kV, 25 kVA, Distribution						
	<b>Transformer</b> suitable for pole mounting without energy meter as						
	per TS						
10	LT Distribution box (compatible to IP-55 enclosure protection) with suitable		No.	7.00			
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT						
	feeders suitable for 3-Phase 11/0.400 kV, 50 kVA, Distribution						
	<b>Transformer</b> suitable for pole mounting without energy meter as						
	per TS						
11	LT Distribution box (compatible to IP-55 enclosure protection) with suitable		No.	3.00			
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT						
	feeders suitable for 3-Phase 11/0.400 kV, 100 kVA,						
	<b>Distribution Transformer</b> suitable for pole mounting without						
	energy meter as per TS						
12	3.5 core, 95+50 sq mm, 1.1 kV , PVC insulated, armoured		Mtr	130.00			
	cable with copper conductor to connect LT bushing to LTDB						
13	Outdoor cable terminating kits suitable for 3.5 core, 95+50 sq		Nos.	26.00			
	mm, 1.1 kV, PVC insulated, armoured cable with copper						
	conductor						
	Sub-Total (E10)						
E11	REPLACEMENT OF EXISTING 3 PHASE DISTRIBUTION TRANSFORMERS						
1	Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with		No.	2.00			
	CRGO core & copper winding along with all accessories as per TS						
2	Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with		No	7.00			
	CRGO core, copper winding & conservator along with all accessories as per						
	TS						
3	Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with		No	4.00			
	CRGO core, copper winding ,conservator and externally operated tap changer						
	along with all accessories as per TS						
		1	l	l			

4	Supply of 200 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding ,conservator and externally operated tap changer along with all accessories as per TS	No	2.00		
5	Supply of 9 kV, 1 phase, 5 KA <b>porcelain housing LA</b> with disconnector with all accessories as per TS	No.	45.00		
6	Supply of 11 kV, 3 phase, 400 Amp. Drop Out fuse with all accessories as per TS	Set	15.00		
7	Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA, DO fuse etc	KG	1500.00		
8	Nuts & Bolts ,Washers (plain and spring)	KG	150.00		
9	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	45.00		
10	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 25 kVA, Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	2.00		
11	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 50 kVA, Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	7.00		
12	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 100 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	4.00		
13	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 200 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	2.00		
14	3.5 core, 95+50 sq mm, 1.1 kV , PVC insulated, armoured cable with copper conductor to connect LT bushing to LTDB	Mtr	170.00		
15	Outdoor cable terminating kits suitable for 3.5 core, 95+50 sq mm, 1.1 kV, PVC insulated, armoured cable with copper conductor	No.	34.00		
·	Sub-Total (E11)				

E12 SHIFTING OF SERVICE CONNECTIONS (1990 nos)  1 Pole mounted service connection definition box alongwith mounting clamp with capacity for 10 connection definition on a longwith mounting clamp with capacity for 10 connection definition on a longwith mounting clamp with capacity for 10 connection definition on a longwith mounting clamp with capacity for 10 connection definition on the long with capacity for 10 connection definition on the long with capacity for 1900 on the long with capacity for 1900 on the long with capacity for 1900 on the long with large with lar			<u> </u>		1	T		
Pole mounted service connection distribution box alongwith mounting clamp with capacity for 10 connections   No. 199.00	E12	SHIETING OF SERVICE CONNECTIONS (4000 pos)						
with capacity for 10 connections 2 Pole mounted Gi clamp to anchor/support at least 10 service lines on pole No, 199.00  3 265 sq mm PVC insulated co-centric Aluminium service cable Mitr 49750.00  Sub-Total (E)  Sub-Total (E)  1 Supply of 18 MVA, 33/11 kV SIS (2x 6/8 MVA AT RATMATE) 1 Supply of 18 MVA, 33/11 kV SIS (2x 6/8 MVA AT RATMATE) 2 Supply of 38 MV, 1250 Amp VCBs with structure and all accessories as per TS 2 Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS 3 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS 4 Supply of 38 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS 5 Supply of 38 kV, 1phase, 400-2001-1 Amp Current transformer (alongwith all accessories & I Junction Box for 3 CTs) as per TS 6 Supply of 30 kV, 1 phase, 400-2001-1 Amp Current transformer (alongwith all accessories & I purction Box for 3 CTs) as per TS 6 Supply of 90 kV, 1 phase, 10 kA porcelain housing LA with all accessories as per TS 7 Supply of 90 kV, 1 phase, 10 kA porcelain housing LA with all accessories & I Junction Box for 3 cTs) as per TS 8 Supply of 38 kV, 1 phase, 10 kA porcelain housing LA with all accessories & I Junction Box for 3 cTs) as per TS 9 30 kV Bus Post Insulators with fittings and accessories as per TS No. 9 10 Supply of 100 kVA, 33 kV/0400 kV CRGO, Copper winding, station transformer along with all accessories as per TS 11 11 Mit long Galvanised Steel Tubular Pole (410SP-54) for Station transformer along with all accessories as per TS 11 11 Mit long Galvanised Steel Tubular Pole (410SP-54) for Station transformer along with all accessories as per TS 11 11 Mit long Galvanised Steel Tubular Pole (410SP-54) for Station transformer along with all accessories as per TS 11 11 Mit long Galvanised Steel Tubular Pole (410SP-54) for Station transformer along with all accessories as per TS 12 10 10 10 10 10 10 10 10 10 10 10 10 10					400.00			
3 2x6 sq mm PVC insulated co-centric Aluminium service cable  Sub-Total (E12)  Sub-Total (E)  F New 33/11 kV SIS (2x 6/8 MVA AT RATMATE)  1 Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as aper TS  2 Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS  3 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS  4 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS  5 Supply of 33 kV, 30 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS  5 Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS  5 Supply of 33 kV, 1 phase, 400-2001-1 Amp Current transformer (alongwith all accessories as per TS  6 Supply of 30 kV, 1 phase, 400-2001-1 Amp Current transformer (alongwith all accessories as per TS  6 Supply of 30 kV, 1 phase, 10 KA porcelain housing LA with Surge Monitor and all accessories as per TS  7 Supply of 30 kV, 1 phase, 10 KA porcelain housing LA with sull accessories as per TS  8 Supply of 30 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of 30 kV, 1 phase provided the provided provided the provided provided the provided provi	1			No.	199.00			
Sub-Total (E12) Sub-Total (E12) Sub-Total (E12) Sub-Total (E15)  F New 33/11 kV SIS (2x 6/8 MVA AT RATMATE)  1 Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS  2 Supply of 33 kV , 1250 Amp VCBs with structure and all accessories as per TS  3 Supply of 33 kV , 630 Amp gang operated DBCR Isolator (without earth switch) with all accessories as per TS  4 Supply of 33 kV , 630 Amp gang operated DBCR Isolator (with earth switch) with all accessories as per TS  5 Supply of 33 kV , 630 Amp gang operated DBCR Isolator (with earth switch) with all accessories as per TS  5 Supply of 33 kV , 630 Amp gang operated DBCR Isolator (with earth switch) with all accessories & I Junction Box for 3 CTs) as per TS  6 Supply of 30 kV , 1 phase, 400-2001-1 Amp Current transformer (alongwith all accessories & I Junction Box for 3 CTs) as per TS  7 Supply of 30 kV , 1 phase, 10 KA porcelain housing LA with Surge Monitor and all accessories as per TS  8 Supply of 30 kV , 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of (33 kV M)/(110 k/3 volts), 1 phase PT (alongwith all accessories & I Junction Box for 3 single phase PTs) as per TS  9 33 kv Bus Post Insulators with fittings and accessories as per TS  10 Supply of 100 kVA, 33 kV/0.400 kV CRQO, Copper winding , station transformer along with all accessories as per TS  11 11 Mr Irong Galvanised Steel Tubular Pole (410 SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	2	Pole mounted GI clamp to anchor/support at least 10 service lines on pole		No.	199.00			
Sub-Total (E)  F New 33/11 kV SIS (2x 6/8 MVA 33/11 kV ONAF, power transformer with On Load tap Changer 8 all accessories as per TS  2 Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS  3 Supply of 33 kV, 1250 Amp page operated DBCR Isolator (without earth switch) with all accessories as per TS  4 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch) with all accessories as per TS  5 Supply of 33 kV, 1 phase, 400-200/1-1 Amp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS  6 Supply of 33 kV, 1 phase, 400-200/1-1 Amp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS  7 Supply of 9 kV, 1 phase, 10 kA porcelain housing LA with Surge Monitor and all accessories as per TS  8 Supply of (33/x3 kV)/(10 //3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs)  8 Supply of (33/x3 kV)/(10 //3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs)  9 33 kv Bus Post Insulators with fittings and accessories as per TS  10 Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS  11 11 Mt Irling Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	3	2x6 sq mm PVC insulated co-centric Aluminium service cable		Mtr	49750.00			
F New 33/11 kV SIS (2x 6/8 MVA AT RATMATE)  1 Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS  2 Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS  3 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS  4 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS  5 Supply of 33 kV, 19 Asse, 400-2001-1 Amp Current transformer (alongwith all accessories & I Junction Box for 3 CTs) as per TS  6 Supply of 30 kV, 1 phase, 400-2001-1 Amp Current transformer (alongwith all accessories & I Junction Box for 3 CTs) as per TS  7 Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with Surge Monitor and all accessories as per TS  8 Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with all accessories as per TS  8 Supply of 33 kV, 3 kV/ 110 k/3 volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  9 33 kW Bus Post Insulators with fittings and accessories as per TS  10 Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 11 httriang Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.		Sub-Total (E12)						
1 Supply of 618 MVA, 3311 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS Supply of 33 kV, 1 phase, 400-2001-14 mp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with Surge Monitor and all accessories as per TS Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with all accessories as per TS Supply of (33/kV)(110 k/3 vOlts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS Supply of (33/kV)(110 k/3 vOlts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS No. 6 Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS No. 1 Interpretation of the processor of		Sub-Total (E)						
1 Supply of 618 MVA, 3311 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS Supply of 33 kV, 1250 Amp VCBs with structure and all accessories as per TS Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS Supply of 33 kV, 1 phase, 400-2001-14 mp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with Surge Monitor and all accessories as per TS Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with all accessories as per TS Supply of (33/kV)(110 k/3 vOlts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS Supply of (33/kV)(110 k/3 vOlts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS No. 6 Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS No. 1 Interpretation of the processor of	F	New 33/11 kV S/S (2x 6/8 MVA AT RATMATE)						
TS  3 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (without earth switch)with all accessories as per TS  4 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS  5 Supply of 33 kV, 1 phase, 400-2001-1 Amp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS  6 Supply of 30 kV, 1 phase, 10 KA porcelain housing LA with Surge Monitor and all accessories as per TS  7 Supply of 9 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of 9 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of 9 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  9 33 kv Bus Post Insulators with fittings and accessories as per TS  10 Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS  11 11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer along with all accessories as per Technical Specification.	-	Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap		No.	2			
earth switch)with all accessories as per TS  4 Supply of 33 kV, 630 Amp gang operated DBCR Isolator (with earth switch)with all accessories as per TS  5 Supply of 33 kV, 1 phase, 400-200/1-1 Amp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS  6 Supply of 30 kV, 1 phase, 10 KA porcelain housing LA with Surge Monitor and all accessories as per TS  7 Supply of 9 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of (33/\3 kV)/(110 /\3 volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  9 33 kv Bus Post Insulators with fittings and accessories as per TS  10 Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS  11 11 Mt long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	2			No.	3			
switch)with all accessories as per TS  Supply of 33 kV, 1 phase, 400-200/1-1 Amp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS  Supply of 30 kV, 1 phase, 10 kA porcelain housing LA with Surge Monitor and all accessories as per TS  Supply of 9 kV, 1 phase, 10 kA porcelain housing LA with all accessories as per TS  Supply of 9 kV, 1 phase, 10 kA porcelain housing LA with all accessories as per TS  Supply of (33/\3 kV)/(110 /\3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  No. 9  33 kv Bus Post Insulators with fittings and accessories as per TS  No. 6  Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	3			No.	4			
(alongwith all accessories & 1 Junction Box for 3 CTs) as per TS  6 Supply of 30 kV, 1 phase, 10 KA porcelain housing LA with Surge Monitor and all accessories as per TS  7 Supply of 9 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of (33/3 kV)/(110 //3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  9 33 kv Bus Post Insulators with fittings and accessories as per TS  No. 6  10 Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	4			No.	1			
Monitor and all accessories as per TS  7 Supply of 9 kV, 1 phase, 10 KA porcelain housing LA with all accessories as per TS  8 Supply of (33//3 kV)/(110 //3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  9 33 kv Bus Post Insulators with fittings and accessories as per TS  No. 6  10 Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	5			No.	9			
accessories as per TS  8 Supply of (33/√3 kV)/(110 /√3 Volts), <b>1 phase PT</b> (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  9 33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS  No. 6  10 Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS  11 11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	6			No.	12			
accessories & 1 Junction Box for 3 single phase PTs) as per TS  9	7	11.		No.	12			
10 Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 If Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	8			No.	9			
transformer along with all accessories as per TS  11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	9	33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS		No.	6			
transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	10	transformer along with all accessories as per TS		No.	1			
12 Columnicad fabricated structure for 22 kV bus 9 line centry	11	transformer and DP structure for outgoing 11 kV feeders as per Technical		No.	10			
12   Galvaniseu iaunicaleu sinuclure ion 35 kv bus & line gantily   Wil   0.0	12	Galvanised fabricated structure for 33 kV bus & line gantry		MT	6.8			

	<del>,</del>	 			
13	Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porceclain LA, Isolator, bus coupler isolator,CT & bus post insulator	MT	3.75		
14	Nuts, bolts, foundation bolts and washer and other accessories for structures.	MT	1.06		
15	70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS	Set	15		
16	Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc.)	Meter	153.45		
17	100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS	Meter	250		
18	16 mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10		
19	Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)	Set	25		
20	Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Un- Treated earthing with arrangement to fix raisers as per TS	Set	30		
21	Supply of 11 kV, XLPE insulated, armoured copper cable as per TS - 3Cx120 sq. mm.	Meter	560		
22	Out door termination kit suitable for termination of 11 kV for 3Cx120 sq. mm copper cable in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders	Set	8		
23	Supply of 33 kV, XLPE insulated, armoured copper single phase cable as per TS - 1Cx185 sq. mm.	Meter	3000		
24	Out door termination kit suitable for termination of 33 kV , 1Cx185 sq. mm copper cable to be used in 33 kV line	Set	30		
25	Supply of 1.1 kV, PVC insulated, armoured 3.5 Cx 50 Sq.mm Aluminium cable as per TS	Meter	75		
26	Supply of 1.1 kV, PVC insulated, armoured 4Cx16 Sq.mm Aluminium cable as per TS	Meter	150		
27	Supply of 1.1 kV PVC insulated, armoured 2C x 10 mm2 copper cable as per TS	Meter	60		
28	Supply of 1.1 kV PVC insulated, armoured 2C x 2.5 mm2 copper cable as per TS	Meter	210		
29	Supply of 1.1 kV PVC insulated, armoured 5C x 2.5 mm2 copper cable as per TS	Meter	720		

Supply of 1.1 kV PVC insulated, amourand 10C x 2.5 mm2 cooper cable as per TS  33 Supply of 1.5 kV PVC insulated, amourand 10C x 2.5 mm2 cooper cable as per TS  34 Supply of CAR panel for 68 MVA 3311 kV ONAF power transformer with On Load lap Changer alteracymb all other mandatory sequirement. as per TS  35 Supply of CAR panel alternative in the mandatory sequirement as per TS  36 Supply of 1.1 kV PVC insulated and other mandatory sequirement as per TS  37 Supply of 1.1 kV The as per TS  38 Supply of 1.1 kV The as per TS  39 Supply of 1.1 kV The as per TS  40 Supply of 1.1 kV The as per TS  41 Supply of 1.1 kV 3.5 ht. 1250A, indoor type control and relay panel consisting of 124V VCB. CTF as Accessories complete as per TS for 11 kV The accessories complete as per TS for 11 kV The accessories complete as per TS for 11 kV The accessories complete as per TS for 11 kV Sp. 11 S250A, indoor type control and relay panel consisting of 124V VCB. CTF as Accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF as Accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF as Accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF as Accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF, PS. Ammeter, Voltmeter, Relay & accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF, PS. Ammeter, Voltmeter, Relay & accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF, PS. Ammeter, Voltmeter, Relay & accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel consisting of 124V VCB. CTF, PS. Ammeter, Voltmeter, Relay & accessories complete as per TS for 11 kV Sp. 11 S250A indoor type control and relay panel control and type to 124V VCB. CT		<u></u>				
por TS  22 Supply of C&R panel for 68 MVA, 33/11 kV CNAF power transformer with On Load tap Changer alongwith all other mandatory system required line protection) for 33 kV Line as per TS  33 Supply of T1kW, 3-ph, 1/250A, indoor type control and relay panel consisting of 12kV VCB, OTS, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  35 Supply of 11kW, 3-ph, 1/250A, indoor type control and relay panel consisting of 12kV VCB, OTS, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  36 Supply of 11kW, 3-ph, 1/250A, indoor type control and relay panel consisting of 12kV VCB, OTS, As accessories complete as per TS for 11kV incomer feeder from transformer.  36 Supply of 11kW, 3-ph, 1/250A, indoor type control and relay panel consisting of 12kV VCB, CTS, As accessories complete as per TS for 11kV outpoint general.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for 11kV outpoint general.  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 ktz, angle phase AC input Voltage. The charger will be subtable to charge 11fty, 240AH, Lead Acid Saftery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to charge 11fty, 240AH, Lead Acid Battery. The ranger will be subtable to the ranger 11fty, 240AH, Lead Acid Battery. The	30	Supply of 1.1 kV PVC insulated, armoured 10C x 2.5 mm2 copper cable as per TS	Mete	r 360		
Load tap Changer alongwith all other mandatory requirement as per TS  33 Supply of C&R panel alongwith all other mandatory system required line protection) for 33 kV Line as per TS  43 Supply of 11 kV, 3-b, 1250A, indoor type control and relay panel consisting of 12kV VOB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VOB, CTs & accessories complete as per TS for 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VOB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  36 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VOB, CTs & accessories complete as per TS for ITkV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for ITkV outgoing feeder.  38 110 V, Float-Cum-Boast Battery Charger with the ill wave, full control rediffication working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110 V, 240AH, Lead Acid Settery. The charger will be suitable to charge 110 V, 240AH, Lead Acid Settery. The charger will be suitable to charge 110 V, 240AH, Lead Acid Settery. The charger will be suitable to charge 110 V, 240AH and acid Settery. The charger will be suitable to charge 110 V, 240AH and acid Settery. The charger will be suitable to charge 110 V, 240AH and acid Settery. The charger will be suitable to charge 110 V, 240AH and the production will 110 V, 240AH and the suitable of the suitable to charge 110 V, 240AH and the suitable of the suitable to charge 110 V, 240AH and the suitable of the suitable to charge 110 V, 240AH and the suitable of the suitable to charge 110 V, 240AH and the suitable 110 V, 240AH and the suita	31		Mete	r 100		
protection   for 33 kV Line as per TS  34 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeler, Relay & accessories complete as per TS for 11 kV incomer feeder from transformer.  35 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  36 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for 11 kV outgoing feeder.  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  40 0400 volts AC Distribution Box as per TS  40 Voltage AC Distribution Box as per TS  41 Supply of Bay Marshalling Klosk as per TS.  42 Lighting System complete for witch/yard including main gate & substation boundary as per TS  43 Lighting System complete for rout-building as per TS  44 Clamp & Connectors etc rout-building as per TS  54 Lighting System complete for Control rout building as per TS  55 Lot 1  56 Lot 1  57 Transformers, 1 no. 33 kV line  58 Transformers, 1 no. 33 kV line  58 Transformers, 1 no. 33 kV line  59 Transformers, 1 no. 33 kV line  50 Transformers, 1 no. 23 kV line  50 Transformers, 1 no. 23 kV line per S	32		No.	2		
12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  35 Supply of 11 kW, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel firequied.  36 Supply of 11 kW, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC. Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be suitable or charge 110V, 240AH, Lead Acid Battery. The charger will be suitable or charge 110V, 240AH, Lead Acid Battery. The charger will be suitable or charge 110V, 240AH, Lead Acid Battery. The charger will be suitable or charge 110V, 240AH, acid Acid Battery. The charger will be suitable or charge 110V, 240AH, acid Battery. The charger will be suitable or charge 110V, 240AH, acid Acid Battery. The charger will be suitable or charge 110V, 240AH, acid Acid Battery. The charger will be suitable or charge 110V, 240AH, acid Acid Battery. The charger will be suitable or charge 110V, 240AH, acid Acid Battery. Set.  39 110V DC Distribution Box as per TS  No. 1  40 400 volts AC Distribution boardpanel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  No. 1  42 Lighting System complete for Switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per T	33	1 11 1 1	No	1		
12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  36 Supply of 11kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for control room building as per TS  44 Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp, 3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS	34	12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as	No	2		
12kV VCB, CTS, PTS, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete  38 110 V, Floet-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line  45 38 kV, 400 Amp, 3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS  46 10 2 2 3 4 3 4 4 4 5 3 kV, 400 Amp, 3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS	35	12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This	No	1		
38	36	12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as	No	4		
working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39  110V DC Distribution Box as per TS 40  400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41  Supply of Bay Marshalling Kiosk as per TS 42  Lighting System complete for switchyard including main gate & substation boundary as per TS 43  Lighting System complete for Control room building as per TS 44  Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line 45  33 kV, 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS	37	110 V, 240AH, Lead Acid type Battery Set and all other accessories complete	Set	1		
40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS	38	working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied	No	1		
40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS	39	110V DC Distribution Box as per TS	No	1		
Lighting System complete for switchyard including main gate & substation boundary as per TS  Lighting System complete for Control room building as per TS  Lighting System complete for Control room building as per TS  Set 1  Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV  transformers, 1 no. 33 kV line  33 kV , 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS  Set 1  Lot 1  Set 1		400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith		1		
boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV  transformers, 1 no. 33 kV line  45 33 kV , 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS  48 Set 1  Set 1  Set 1  Set 1	41	Supply of Bay Marshalling Kiosk as per TS	No	1		
Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line  45  33 kV , 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS  Lot 1  Set 1	42		Set	1		
transformers, 1 no. 33 kV line  45  33 kV , 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS  Set 1	43	Lighting System complete for Control room building as per TS	Set	1		
existing 33kV line as per TS	44	transformers, 1 no. 33 kV line	Lot	1		
46 33 kV, 3 phase DO fuse for station transformer as per TS Set 1	45		Sei	1		
	46	33 kV, 3 phase DO fuse for station transformer as per TS	Set	1		

47	11 kV , 400 Amp,3 phase , vertical mounted AB switch for Outgoing DP as per TS	Set	4		
48	Dry Chemical Powder Type(6 Kg) for control room.	No.	1		
49	CO2 Type of 4.5Kg Capacity for Control Room.	No.	1		
50	CO2 Type Trolly Mounted of 22.5 Kg Capacity for Switch Yard.	No	1		
51	Digital IR Tester (2kV-5kV)	No.	1		
52	Digital multimeter	No.	2		
53	Earth resistance tester	No.	1		
54	Stainless Steel Oil sampling bottle (One Litre Capacity)	No.	2		
55	11 kV Discharge Rod(1 set of 3 rods)	Set	1		
56	Battery Voltage Tester	No.	2		
57	33 kV Discharge Rod (1 set of 3 rods)	Set	1		
	Sub-Total (F)				
G	No 2014 IN CIC (4. CIC MVA AT IVALIIVA CTUANI)				
	New 33/11 kV S/S (1x 6/8 MVA AT KALIKASTHAN )	NI.	1		
1	Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS	No.	1		
2	Supply of 33 kV , 1250 Amp VCBs with structure and all accessories as per TS	No.	2		
3	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (without earth switch)with all accessories as per TS	No.	2		
4	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (with earth switch)with all accessories as per TS	No.	1		
5	Supply of 33 kV, 1 phase, 400-200/1-1 Amp Current transformer (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS	No.	6		
6	Supply of 30 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with Surge Monitor and all accessories as per TS	No.	9		
7	Supply of 9 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with all accessories as per TS	No.	12		
8	Supply of (33/\sqrt{3} kV)/(110 /\sqrt{3} Volts), <b>1 phase PT</b> (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS	No.	6		
9	33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS	No.	3		
10	Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS	No.	1		

11	11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	No.	10		
12	Galvanised fabricated structure for 33 kV bus & line gantry	MT	5.1		
13	Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator	MT	2.85		
14	Nuts, bolts, foundation bolts and washer and other accessories for structures.	MT	0.8		
15	70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS	Set	9		
16	Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc.)	Meter	50		
17	100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS	Meter	250		
18	16mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10		
19	Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)	Set	25		
20	Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Un- Treated earthing with arrangement to fix raisers as per TS	Set	30		
21	Supply of 11 kV, XLPE insulated, armoured copper cable as per TS - 3Cx120 sq. mm.	Meter	420		
22	Out door termination kit suitable for termination of 11 kV for 3Cx120 sq. mm copper cable in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders	Set	6		
23	Supply of 33 kV, XLPE insulated, armoured copper single phase cable as per TS - 1Cx185 sq. mm.	Meter	3000		
24	Out door termination kit suitable for termination of 33 kV , 1Cx185 sq. mm copper cable to be used in 33 kV line	Set	30		
25	Supply of 1.1 kV, PVC insulated, armoured 3.5 Cx 50 Sq.mm Aluminium cable as per TS	Meter	75		
26	Supply of 1.1 kV, PVC insulated, armoured 4Cx16 Sq.mm Aluminium cable as per TS	Meter	100		
27	Supply of 1.1 kV PVC insulated, armoured 2C x 10 mm2 copper cable as per TS	Meter	40		

28	Supply of 1.1 kV PVC insulated, armoured 2C x 2.5 mm2 copper cable as per TS		Meter	140		
29	Supply of 1.1 kV PVC insulated, armoured 5C x 2.5 mm2 copper cable as per TS		Meter	480		
30	Supply of 1.1 kV PVC insulated, armoured 10C x 2.5 mm2 copper cable as per TS		Meter	240		
31	Supply of 1.1 kV PVC insulated, armoured 12C x 2.5 mm2 copper cable as per TS		Meter	65		
32	Supply of C&R panel for 6/8 MVA, 33/11 kV ONAF power transformer with On Load tap Changer alongwith all other mandatory requirement <b>as per TS</b>		No.	1		
33	Supply of C&R panel alongwith all other mandatory system required line protection) for 33 kV Line as per TS		No.	1		
34	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.		No.	1		
35	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.		No.	0		
36	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.		No.	4		
37	110 V, 240AH, Lead Acid type Battery Set and all other accessories complete		Set	1		
38	110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.		No.	1		
39	110V DC Distribution Box as per TS		No.	1		
40	400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.		No.	1		
41	Supply of Bay Marshalling Kiosk as per TS		No.	1		
42	Lighting System complete for switchyard including main gate & substation boundary as per TS		Set	1		
43	Lighting System complete for Control room building as per TS		Set	1		
		•				

44	Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line	Lo	ot	1			
45	33 kV , 400 Amp,3 phase , vertical mounted AB switch for station transformer as per TS	Se	et	1			
46	33 kV, 3 phase DO fuse for station transformer as per TS	Se	et	1			
47	11 kV , 400 Amp,3 phase , vertical mounted AB switch for Outgoing DP as per TS	Se	et	4			
48	Dry Chemical Powder Type(6 Kg) for control room.	No	<b>)</b> .	1			
49	CO2 Type of 4.5Kg Capacity for Control Room.	No	<b>)</b> .	1			
50	CO2 Type Trolley Mounted of 22.5 Kg Capacity for Switch Yard.	N	0	1			
51	Digital IR Tester (2kV-5kV)	No	<b>)</b> .	1			
52	Digital multi meter	No	<b>)</b> .	2			
53	Earth resistance tester	No	<b>)</b> .	1			
54	Stainless Steel Oil sampling bottle (One Litre Capacity)	No	<b>)</b> .	2			
55	11 kV Discharge Rod(1 set of 3 rods)	Se	et	1			
56	Battery Voltage Tester	No	<b>)</b> .	2			
57	33 kV Discharge Rod (1 set of 3 rods)	Se	et	1			
	Sub-Total (G)						
Н	New 11kV SWITCHING STATION AT DHUNCHE						
1	Supply of 9 kV, 1 phase, 5 KA porcelain housing LA	No	S.	12			
2	Supply of 11 kV, 3 phase HG fuse	Se	et	4			
3	Supply of 11 kV , 400 Amp,3 phase , vertical mounted AB switch	Se	et	5			
4	Supply of 11 mtrs long steel tubular poles of 410 grade (410 SP-54)	No	<b>)</b> .	14			
5	ACSR DOG Conductor	Kr	n.	0.5			
6	Supply of Galvanised fabricated structure for installation of LA, HG Fuse, AB switch etc	K	g	500			
7	Supply of Clamp and connectors	Lot (I Su		1			
8	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	Se	ts	24			
9	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes for treated earthing with arrangement to fix raisers	Se	ts	14			

Design, Supply and Installation of Electrification Component works consisting of 33/11kV New Substations and associated 33kV, 11kV & 0.4kV Lines under Reconstruction & Improvement of Electricity in Earthquake Affected Districts of Rasuwa and Nuwakot

(Schedule of rates and prices)

Bidder's Name & Address:

Plant and Equipment including mandatory Spares to be supplied from within Employer's Country including Type Test Charges for Type Tests to be conducted in Employer's Country

1	2	3	4	5	6	7	8	9 = 6 x 8	10
SI. No.	Item Description	Country of Origin	Type & Designation	Unit	Quantity	Currency (As per ITB 19.1)	Unit ExW Price	Total ExW Price	Mode of Transaction (Direct/ Bought-Out)
Α	Construction of new 33kV Single Ckt Line for Kalikasthan Substation (5 kms)								
1	Supply of ACSR Dog Conductor (100 Sq mm)			Km.	15.75				
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)			No.	120.00				
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.			MT	7.45				
4	33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS			No.	330.00				
5	70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS			No.	240.00				
6	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator			No.	330.00				
7	Nuts & Bolts ,Washers (plain and spring)			MT	0.75				
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set			Set	50.00				
9	Guy Strain Insulators designation 'C'			No.	100.00				
10	Stay wire (7/8 SWG or 7/4 mm )			Kg.	456.25				
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS			Set	20.00				

12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	835.15		
	Sub- Total (A)				
В	Construction of new 33kV Single Ckt Line for Ratmate Substation (2 kms)				
1	Supply of ACSR Dog Conductor (100 Sq mm)	Km.	6.30		
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	48.00		
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	2.98		
4	33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	132.00		
5	70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS	No.	96.00		
6	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator	No.	132.00		
7	Nuts & Bolts ,Washers (plain and spring)	MT	0.30		
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set	Set	20.00		
9	Guy Strain Insulators designation 'C'	No.	40.00		
10	Stay wire (7/8 SWG or 7/4 mm )	Kg.	182.50		
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	8.00		
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	334.06		
13	33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS	No.	1.00		
	Sub- Total (B)				
С	11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION (4 kms)				
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	km	12.60		
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	96.00		

3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-		MT	4.60		
	Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel					
	clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps,					
	Guarding arm etc complete as required.					

	The state of the s			T T	
	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	MT	276.00		
	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	168.00		
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	276.00		
7	Nuts & Bolts ,Washers (plain and spring)		0.46		
	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	No.	40.00		
9	Guy Strain Insulators designation 'C'	No.	40.00		
	Stay wire (7/8 SWG or 7/4 mm )	Set	239.24		
	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	16.00		
12	GI WIRE 8 SWG for earthing & guarding purpose	No.	550.20		
	Sub-Total( C )				
	11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION (6 kms)				
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	km	18.90		
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	144.00		
	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	6.90		
	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	MT	414.00		
	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	252.00		
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	414.00		
7	Nuts & Bolts ,Washers (plain and spring)		0.69		
	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	No.	60.00		
9	Guy Strain Insulators designation 'C'	No.	60.00		
	Stay wire (7/8 SWG or 7/4 mm)	Set	358.86		+

	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS		Set	24.00		
12	GI WIRE 8 SWG for earthing & guarding purpose		No.	825.30		
	Sub-Total( D )					

_					
E	STRENGTHENING OF DISTRIBUTION NETWORK IN DHUNCHE,				
	GOLJUNG,GATLANG, GREY, HAKU, TIRU AND KALIKASTHAN				
E1	REPLACEMENT OF BARE CONDUCTOR OF EXISTING 11kV LINE				
	(13 KMS)				
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	Km.	40.95		
	7.1. <u>12</u> 30.0100 7.1.10 (1.0111110.7.100 00.04 11111) 00.11110.11 10 por 10		10.00		
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-	MT	1.43		
2	Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel	IVII	1.43		
	clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps,				
	Guarding arm etc complete as required.				
	caarang ann oto complete as required.				
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10	No.	182.00		
	KN Pin, nut and washers complete as per TS				
4	11 kV , 70 KN B&S disc insulator complete with all Hardware &	No.	104.00		
	accessories as per TS				
5	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin	No.	182.00		
	insulator				
6	Nuts & Bolts ,Washers (plain and spring)	MT	0.14		
7	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1	Set	52.00		
,	no., Tumbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to	Set	32.00		
	attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set				
	attation Anonor hate to Anonor Hody to complete 11 kV stay set				
8	Guy Strain Insulators designation 'C'	No.	52.00		
9	Stay wire (7/8 SWG or 7/4 mm )	Kg.	310.96		
10	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth	Set	52.00		
	electrodes alongwith clamping arrangement to connect 8 SWG GI wire as				
	per TS				
11	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	1788.15		
	Sub-Total (E1)				
E2	NEW 11kV LINE USING XLPE INSULATED AAAC CONDUCTOR OF 55				
LZ	SQ.MM SIZE (17 kms)				
1		I/m	53.55		
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	Km.	53.55		
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	408.00		
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-	MT	19.55		
	Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel				
	clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps,				
	Guarding arm etc complete as required.				
4	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10	No.	1173.00		
-	KN Pin, nut and washers complete as per TS	110.	1170.00		
1	rate in, nat and washers complete as per 10			<u> </u>	

5	11 kV , 70 KN B&S disc insulator complete with all Hardware &	No.	714.00		
	accessories as per TS				
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	1173.00		
7	Nuts & Bolts ,Washers (plain and spring)	MT	1.96		
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	170.00		
9	Guy Strain Insulators designation 'C'	No.	170.00		
10	Stay wire (7/8 SWG or 7/4 mm )	Kg.	1016.77		
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	68.00		
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	2338.35		
	Sub-Total (E2)				
E3	NEW LT LINE USING XLPE INSULATED AB CABLE OF 3C*35SQ.M+35 SQ.MM (21 kms)				
1	LT 3C X 35 + 35 (Insulated messenger wire) Sq.mm XLPE insulated AB cable with aluminium for phase conductor and aluminium alloy for messenger wire.	Km.	23.10		
2	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	588.00		
3	Fabrication and Supply of M.S. Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	MT	2.94		
4	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	294.00		
5	Anchor clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	294.00		
6	Support hook for suspension / anchor clamps to be used for AB cable	No.	588.00		
7	Nuts & Bolts ,Washers (plain and spring)	MT	0.29		
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete LT stay set	Set	210.00		
9	Guy Strain Insulators designation 'A'	No.	210.00		
10	Stay wire (7/12 SWG or 7/2.5 mm)	Kg.	623.49		
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	84.00		
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	2888.55		

	Sub-Total (E3)				
	5.5.2.1.1				
E4	REPLACEMENT OF BARE CONDUTOR OF EXISTING LT LINE BY AB CABLE OF 3C*35SQ.MM+35SQ.MM (39 kms)				
1	LT 3C X 35 + 35 (Insulated messenger wire) Sq.mm XLPE insulated AB cable with aluminium for phase conductor and aluminium alloy for messenger wire.	Km.	42.90		
2	Fabrication and Supply of M.S. Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	MT	5.46		
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	546.00		
4	Anchor clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	546.00		
5	Support hook for suspension / anchor clamps to be used for AB cable	No.	1092.00		
6	Nuts & Bolts ,Washers (plain and spring)	MT	0.55		
7	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete LT stay set	Set	195.00		
8	Guy Strain Insulators designation 'A'	No.	195.00		
9	Stay wire (7/12 SWG or 7/2.5 mm)	Kg.	579.15		
10	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	156.00		
11	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	5364.46		
	Sub-Total (E4)				
E5	ADDITIONAL 8MTR LONG STP IN EXISTING LT LINE (120 nos)				
1	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	120.00		
2	Fabrication and Supply of M.S Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	KG	600.00		
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	120.00		
4	Support hook for suspension / anchor clamps to be used for AB cable	No.	120.00		
5	Nuts & Bolts ,Washers (plain and spring)	KG	60.00		
	Sub-Total (E5)				

E6	REPLACEMENT OF DAMAGED POLES BY 11MTR LONG STP IN EXISTING 11kV LINE (10 nos)				
1	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	10.00		
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	KG	572.50		
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	30.00		
4	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator	No.	30.00		
5	Nuts & Bolts ,Washers (plain and spring) Sub-Total (E6)	KG	57.25		
E7	REPLACEMENTOF WOODEN POLES BY NEW 8 MTR LONG STP IN EXISTING LT LINE (60 nos)				
1	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	60.00		
2	Fabrication and Supply of M.S Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	KG	300.00		
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	60.00		
4	Support hook for suspension / anchor clamps to be used for AB cable	No.	60.00		
5	Nuts & Bolts ,Washers (plain and spring) Sub-Total (E7)	KG	30.00		
E8	ADDITIONAL 11 MTR LONG STP IN EXISTING 11 kV LINE (25 nos)				
1	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	25.00		
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	KG	1431.25		
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	75.00		
4	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	75.00		
5	Nuts & Bolts ,Washers (plain and spring) Sub-Total (E8)	KG	143.13		

				T	
E9	NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)				
1	,	1/2	250.00		
	Fabrication and Supply of M.S. Galvanised items- Stay clamps	Kg.	25.00		
2	Nuts & Bolts ,Washers (plain and spring)	Kg.			
3	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to	Set	50.00		
	attatch Anchor Plate to Anchor Rod) to <b>complete 11 kV stay set</b>				
	diddon vitorion i lato to vitorio i rody to complete 11 k v staty set				
4	Guy Strain Insulators designation 'C'	No.	50.00		
5	Stay wire (7/8 SWG or 7/4 mm )	Kg.	299.00		
	Sub-Total (E9)	Ng.	233.00		
	oub-rotar (E3)				
E10	NEW 3-PHASE DISTRIBUTION TRANSFORMERS				
1	Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with	No.	3.00		
	CRGO core & copper winding along with all accessories as per TS	ino.	0.00		
	33				
2	Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with	No.	7.00		
_	CRGO core, copper winding & conservator along with all accessories as per				
	TS				
3	Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer	No.	3.00		
	with CRGO core, copper winding ,conservator and externally operated tap				
	changer along with all accessories as per TS				
4	Supply of 9 kV, 1 phase, 5 KA <b>porcelain housing LA</b> with dis-	No.	39.00		
	connector with all accessories as per TS				
5	Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as	Set	13.00		
	per TS				
6	Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA,	KG	1300.00		
	DO fuse etc				
7	Nuts & Bolts ,Washers (plain and spring)	KG	130.00		
8	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth	Set	39.00		
	electrodes alongwith clamping arrangement to connect 8 SWG GI wire as				
	per TS				
9	LT Distribution box (compatible to IP-55 enclosure protection) with suitable	No.	3.00		
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT				
	feeders suitable for 3-Phase 11/0.400 kV, 25 kVA,				
	Distribution Transformer suitable for pole mounting without				
- 10	energy meter as per TS		7.00		
10	LT Distribution box (compatible to IP-55 enclosure protection) with suitable	No.	7.00		
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT				
	feeders suitable for 3-Phase 11/0.400 kV, 50 kVA,  Distribution Transformer suitable for pole mounting without				
	energy meter as per TS				
	chergy meter as per 15				

	T	 		1	·	Ţ
11	LT Distribution box (compatible to IP-55 enclosure protection) with suitable	No.	3.00			
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT					
	feeders suitable for 3-Phase 11/0.400 kV, 100 kVA,	1				
	<b>Distribution Transformer</b> suitable for pole mounting without	1				
	energy meter as per TS					
12	3.5 core, 95+50 sq mm, 1.1 kV, PVC insulated, armoured	Mtr	130.00			
	cable with copper conductor to connect LT bushing to LTDB					
		 <u> </u>				<u> </u>
13	Outdoor cable terminating kits suitable for 3.5 core, 95+50 sq	Nos.	26.00			
	mm, 1.1 kV, PVC insulated, armoured cable with copper	ı				
	conductor	ı				
	Sub-Total (E10)					
E11	REPLACEMENT OF EXISTING 3 PHASE DISTRIBUTION					
	TRANSFORMERS					
1	Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with	No.	2.00			
	CRGO core & copper winding along with all accessories as per TS	ı				
		1				
2	Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with	No	7.00	<del>                                     </del>		<del> </del>
1 -	CRGO core, copper winding & conservator along with all accessories as per	1				
	TS	ı				
3	Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer	No	4.00	<del>                                     </del>		
	with CRGO core, copper winding ,conservator and externally operated tap	110	7.00			
1	changer along with all accessories as per TS					
	J J	ı				
A	Supply of 200 KVA, 11 kV/0.400 kV, 3 phase distribution transformer	No	2.00	<del>                                     </del>		<del>                                     </del>
4	with CRGO core, copper winding ,conservator and externally operated tap	INO	2.00			
	changer along with all accessories as per TS	ı				
	Single diong with all acceptones as per 10	Ī				
			45.55			
5	Supply of 9 kV, 1 phase, 5 KA <b>porcelain housing LA</b> with dis-	No.	45.00			
	connector with all accessories as per TS		L			
6	Supply of 11 kV, 3 phase, 400 Amp. Drop Out fuse with all accessories	Set	15.00			
	as per TS					
7	Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA,	KG	1500.00			
	DO fuse etc	 <u> </u>				<u> </u>
8	Nuts & Bolts ,Washers (plain and spring)	KG	150.00			
9	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth	Set	45.00			
	electrodes alongwith clamping arrangement to connect 8 SWG GI wire as	ı				
	per TS	ı				
10	LT Distribution box (compatible to IP-55 enclosure protection) with suitable	No.	2.00			
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT	ı				
	feeders suitable for 3-Phase 11/0.400 kV, 25 kVA,	ı				
	<b>Distribution Transformer</b> suitable for pole mounting without	ı				
	energy meter as per TS	ı				
L	01 · · · · · · · · · · · · · · · · · · ·	 1		1 1	1	_1

11	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 50 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	7.00		
12	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 100 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	4.00		
13	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 200 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	2.00		
14	3.5 core, 95+50 sq mm, 1.1 kV , PVC insulated, armoured cable with copper conductor to connect LT bushing to LTDB	Mtr	170.00		
15	Outdoor cable terminating kits suitable for 3.5 core, 95+50 sq mm, 1.1 kV , PVC insulated, armoured cable with copper conductor	No.	34.00		
	Sub-Total (E11)				
E12	SHIFTING OF SERVICE CONNECTIONS (1990 nos)				
1	Pole mounted service connection distribution box alongwith mounting clamp with capacity for 10 connections	No.	199.00		
2	Pole mounted GI clamp to anchor/support at least 10 service lines on pole	No.	199.00		
3	2x6 sq mm PVC insulated co-centric Aluminium service cable	Mtr	49750.00		
	Sub-Total (E12)				
	Sub-Total (E)				
F	New 33/11 kV S/S (2x 6/8 MVA AT RATMATE)				
1	Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS	No.	2		
2	Supply of 33 kV , 1250 Amp VCBs with structure and all accessories as per TS	No.	3		
3	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (without earth switch) with all accessories as per TS	No.	4		
4	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (with earth switch)with all accessories as per TS	No.	1		
5	Supply of 33 kV, 1 phase, 400-200/1-1 Amp <b>Current transformer</b> (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS	No.	9		

6	Supply of 30 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with Surge Monitor and all accessories as per TS	No.	12		
7	Supply of 9 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with all accessories as per TS	No.	12		
8	Supply of $(33/\sqrt{3} \text{ kV})/(110/\sqrt{3} \text{ Volts})$ , <b>1 phase PT</b> (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS	No.	9		
9	33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS	No.	6		
10	Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS	No.	1		
11	11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	No.	10		
12	Galvanised fabricated structure for 33 kV bus & line gantry	MT	6.8		
13	Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porceclain LA, Isolator, bus coupler isolator, CT & bus post insulator	MT	3.75		
14	Nuts, bolts, foundation bolts and washer and other accessories for structures.	MT	1.06		
15	70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS	Set	15		
16	Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc.)	Meter	153.45		
17	100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS	Meter	250		
18	16 mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10		
19	Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)	Set	25		
20	Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Un- Treated earthing with arrangement to fix raisers as per TS	Set	30		
21	Supply of 11 kV, XLPE insulated, armoured copper cable as per TS - 3Cx120 sq. mm.	Meter	560		
22	Out door termination kit suitable for termination of 11 kV for 3Cx120 sq. mm copper cable in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders	Set	8		
23	Supply of 33 kV, XLPE insulated, armoured copper single phase cable as per TS - 1Cx185 sq. mm.	Meter	3000		

Set   30   Control termination is statistic for termination of 33 M; CC 185 sp. mm   Copper cable to be set of 33 MV In the				1	1		1
able is get TS  8 Supply of 1.1 M. PMC insulated, amoursed 4Cht 6 Sp,mm Aluminium of the sp en TS  9 Supply of 1.1 M PMC insulated, emoursed 2C x 10 mm2 copper cable as por TS  8 Supply of 1.1 M PMC insulated, emoursed 2C x 26 mm2 copper cable 8 Supply of 1.1 M PMC insulated, emoursed 3C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 5C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 5C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emoursed 10C x 25 mm2 copper cable 9 Supply of 1.1 M PMC insulated, emou	24	Out door termination kit suitable for termination of 33 kV , 1Cx185 sq. mm copper cable to be used in 33 kV line	Set	30			
casele as per TS 27 Supply of 1.1 M PVC insulated, amoured 2C x 10 m/2 copper cable as per TS 28 Supply of 1.1 M PVC insulated, amoured 5C x 25 m/2 copper cable as per TS 29 Supply of 1.1 M PVC insulated, amoured 5C x 25 m/2 copper cable as per TS 30 Supply of 1.1 M PVC insulated, amoured 1C x 25 m/2 copper cable as per TS 31 Supply of 1.1 M PVC insulated, amoured 1C x 25 m/2 copper cable as per TS 32 Supply of 1.1 M PVC insulated, amoured 1C x 25 m/2 copper cable as per TS 33 Supply of CRR panel along that a common of the commo	25		Meter	75			
Dept. TS   Supply of 1.1 xW PPC insulated, amounted 2C x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 5C x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 5C x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 10c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated, amounted 12c x 2.5 mm2 copper cable as part TS   Supply of 1.1 xW PPC insulated and supply part   Supply of 1.1 xW PPC insulated and supply part   Supply of 1.1 xW PPC insulated and supply part   Supply part Supply of 1.1 xW PPC insulated and supply part   Supply part Supply of 1.1 xW PPC insulated and supply part   Supply part Supply of 1.1 xW PPC insulated   Supply part Supply pa	26		Meter	150			
as per TS Supply of 1.1 kV PVC insulated, amound 5C x 2.5 mm2 copper cable as per TS Supply of 1.1 kV PVC insulated, amound 1Cx x 2.5 mm2 copper cable as per TS Supply of 1.1 kV PVC insulated, amound 1Cx x 2.5 mm2 copper cable as per TS Supply of 1.1 kV PVC insulated, amound 1Cx x 2.5 mm2 copper cable as per TS Supply of 1.1 kV PVC insulated, amound 1Cx x 2.5 mm2 copper cable as per TS Supply of C&R panel abropath all other mandatory requirement as per TS Supply of C&R panel abropath all other mandatory requirement as per TS Supply of C&R panel abropath all other mandatory requirement as per TS Supply of TX VI.3 pt. 1250A, indoor type control and relay panel consisting of TX VV.3 pt. 1250A, indoor type control and relay panel consisting of TX VV.0 pt. 1250A, indoor type control and relay panel consisting of TX VV.0 pt. 1250A, indoor type control and relay panel consisting of TX VV.0 pt. 1250A, indoor type control and relay panel consisting of TX VV.0 pt. 1250A, indoor type control and relay panel consisting of TX VV.0 pt. 15 pt. 3 accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  Supply of TX VX.0 pt. 1250A, indoor type control and relay panel consisting of TX VV.0 pt. CTS PTs. Ammeter, Voltmeter, Relay & accessories complete as per TS for TX VV.0 pt. 15 pt.	27	***	Meter	60			
per TS  Supply of 1.1 kV PVC insulated, amoured 10C x 2.5 mm2 copper cable sper TS  Supply of 1.1 kV PVC insulated, amoured 12C x 2.5 mm2 copper cable sper TS  Supply of 1.1 kV PVC insulated, amoured 12C x 2.5 mm2 copper cable sper TS  Supply of CAR panel for 6/9 kWA, 3311 kV ONAF power transformer with On Load and pchanger alongwith all other mandatory requirement as per TS  Supply of CAR panel slongwith all other mandatory system required line protection for 33 kV 1.me as per TS  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF pS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF pS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF pS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV outgoing feeder.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF pS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV outgoing feeder.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF pS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV outgoing feeder.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF pS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV outgoing feeder.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VOR, CF, PS, Ammeter, Voltander, Relay & accessories complete as per TS for 11kV outgoing feeder.  No. 1  10V, 240AH, Lead And Supple Supply of the substation alongwith CF operated 3 phase 4 wire energymeter & CF is complete as per TS.  No. 1  10V OC Distribution Box as per TS.  No. 1  10V OC Distribution Box as per TS.  No. 1  10V OC Distribution B	28		Meter	210			
as per TS  Supply of 1.1 kV PVC insulated, amoured 12C x 2.5 mm2 copper cable as per TS  Supply of CaR panel for 68 MWA, 30/11 kV ONAF power transformer with On Load tab Changer alongwith all other mendatory requirement as per TS  Supply of CaR panel alongwith all other mendatory system required line protection for 33 kV Line as per TS  Supply of 11 kV, 3-bh, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTF, S. Ammeter, Voltmerer, Relay & accessories complete as per TS for 11kV incorner feeder from transformer.  35 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTF, S. CTF, S. Ammeter, Voltmerer, Relay & accessories complete as per TS for 11kV incorner feeder from transformer.  35 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTF, S. CTF, S. Ammeter, Voltmerer, Relay & accessories complete as per TS for 11kV application of 12kV VCB, CTF, S. Ammeter, Voltmerer, Relay & accessories complete as per TS for 11kV application of 12kV VCB, CTF, S. Ammeter, Voltmerer, Relay & accessories complete as per TS for 11kV application of 12kV VCB, CTF, S. Ammeter, Voltmerer, Relay & accessories complete as per TS for 11kV autopting feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for 11kV autopting feeder.  38 110 V, Foak-Cum-Boost Battery Charger with fall wave, full control rediffication working no 50 kF, single phase AC full volt Voltago, The charger with be suitable to charger 11V V, 240AH, Lead Acid Battery. The charger with be suitable to charger 11V V, 240AH, Lead Acid Battery. The charger with be suitable to charger in the full wave, full control rediffication box as per TS  No. 1  100 CD Distribution box as per TS  No. 1  100 CD Distribution box as per TS  No. 1  100 CD Distribution box as per TS  No. 1  100 CD Distribution box as per TS	29		Meter	720			
32 Supply of C&R panel for 6/8 MVA, 33/11 kV ONAF power transformer with On Load tap Changer alongwith all other mandatory requirement as per TS  33 Supply of C&R panel alongwith all other mandatory requirement as per TS  34 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 122V VCB, CTs, PTs, Ammetry, Voltmeter, Relay & accessories complete as per TS for 11 kV incomer feeder from transformer.  35 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 122V VCB, CTs, PTs, Ammetry, Voltmeter, Relay and consisting of 122V VCB, CTs, PTs, Ammetry, Voltmeter, Relay and consisting of 124V VCB, CTs, PTs, Ammetry, Voltmeter, Relay and consisting of 124V VCB, CTs, PTs, Ammetry, VCB, VCB, CTs, PTs, Ammetry, VCB, VCB, VCB, CTs, PTs, Ammetry, VCB, VCB, VCB, VCB, VCB, VCB, VCB, VCB	30		Meter	360			
On Load tap Changer alongwith all other mandatory requirement as per TS  Supply of C&R panel alongwith all other mandatory system required line protection) for 33 kV Line as per TS  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This incuble trunking panel if required.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This incuble trunking panel if required.  Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as PTS for 11kV calipoin feeder.  Till VC, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for this voltage. The charger will be subable to charge IVD, 240AH, Lead Acid Set Pts, Verb. Charger will be subable to charge IVD, 240AH, acid Acid Set Pts, Verb. Charger will be subable to charge IVD, 240AH, be charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Sattery Set.  100 VCD Distribution Box as per TS  No. 1  110 VC Distribution boardipanel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.	31		Meter	100			
protection) for 33 kV Line as per TS  34 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Armeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  35 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  36 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Armeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 11 0V, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for 11kV outgoing feeder.  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC Input Voltager The charger will be suipled alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  40 400 volts AC Distribution Box as per TS  No. 1  10 10 VI CD Distribution Box as per TS  No. 1  11 VI CD Distribution Box as per TS  No. 1  12 VI CD Distribution Box as per TS  No. 1  No. 1  No. 1	32	On Load tap Changer alongwith all other mandatory requirement as per	No.	2			
consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.    Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.    Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.    Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.    37	33		No.	1			
consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  36 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete complete as per TS for 11kV outgoing feeder.  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  No. 1  40 400 volts AC Distribution box as per TS  No. 1	34	consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay &	No.	2			
consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37	35	consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-	No.	1			
complete  38	36	consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay &	No.	4			
rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39	37		Set	1			
40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.	38	rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V,	No.	1			
40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.	39	110V DC Distribution Box as per TS	No.	1			
41 Supply of Bay Marshalling Kiosk as per TS No. 1	40	mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per	No.	1			
	41	Supply of Bay Marshalling Kiosk as per TS	No.	1			

42	Lighting System complete for switchyard including main gate & substation boundary as per TS	Set	1		
43	Lighting System complete for Control room building as per TS	Set	1		
44	Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV transformers, 1 no. 33 kV line	Lot	1		
45	33 kV , 400 Amp,3 phase, vertical mounted AB switch for station transformer of existing 33kV line as per TS	Set	1		
46	33 kV, 3 phase DO fuse for station transformer as per TS	Set	1		
47	11 kV , 400 Amp,3 phase , vertical mounted AB switch for Outgoing DP as per TS	Set	4		
48	Dry Chemical Powder Type(6 Kg) for control room.	No.	1		
49	CO2 Type of 4.5Kg Capacity for Control Room.	No.	1		
50	CO2 Type Trolly Mounted of 22.5 Kg Capacity for Switch Yard.	No	1		
51	Digital IR Tester (2kV-5kV)	No.	1		
52	Digital multimeter	No.	2		
53	Earth resistance tester	No.	1		
54	Stainless Steel Oil sampling bottle (One Litre Capacity)	No.	2	 	 
55	11 kV Discharge Rod(1 set of 3 rods)	Set	1		
56	Battery Voltage Tester	No.	2		
57	33 kV Discharge Rod (1 set of 3 rods)	Set	1		
	Sub-Total (F)				
G	New 33/11 kV S/S (1x 6/8 MVA AT KALIKASTHAN )				
1	Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS	No.	1		
2	Supply of 33 kV , 1250 Amp VCBs with structure and all accessories as per TS	No.	2		
3	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (without earth switch)with all accessories as per TS	No.	2		
4	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (with earth switch)with all accessories as per TS	No.	1		
5	Supply of 33 kV, 1 phase, 400-200/1-1 Amp <b>Current transformer</b> (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS	No.	6		
6	Supply of 30 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with Surge Monitor and all accessories as per TS	No.	9		
7	Supply of 9 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with all accessories as per TS	No.	12		
8	Supply of $(33/\sqrt{3} \text{ kV})/(110/\sqrt{3} \text{ Volts})$ , <b>1 phase PT</b> (along with all accessories & 1 Junction Box for 3 single phase PTs) as per TS	No.	6		

9	33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS	No.	3		
10	Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS	No.	1		
11	11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	No.	10		
12	Galvanised fabricated structure for 33 kV bus & line gantry	MT	5.1		
13	Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator	MT	2.85		
14	Nuts, bolts, foundation bolts and washer and other accessories for structures.	MT	0.8		
15	70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS	Set	9		
16	Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc )	Meter	50		
17	100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS	Meter	250		
18	16mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10		
19	Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)	Set	25		
20	Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for UnTreated earthing with arrangement to fix raisers as per TS	Set	30		
21	Supply of 11 kV, XLPE insulated, armoured copper cable as per TS - 3Cx120 sq. mm.	Meter	420		
22	Out door termination kit suitable for termination of 11 kV for 3Cx120 sq. mm copper cable in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders	Set	6		
23	Supply of 33 kV, XLPE insulated, armoured copper single phase cable as per TS - 1Cx185 sq. mm.	Meter	3000		
24	Out door termination kit suitable for termination of 33 kV , 1Cx185 sq. mm copper cable to be used in 33 kV line	Set	30		
25	Supply of 1.1 kV, PVC insulated, armoured 3.5 Cx 50 Sq.mm Aluminium cable as per TS	Meter	75		
26	Supply of 1.1 kV, PVC insulated, armoured 4Cx16 Sq.mm Aluminium cable as per TS	Meter	100		
27	Supply of 1.1 kV PVC insulated, armoured 2C x 10 mm2 copper cable as per TS	Meter	40		

28 Stopy of 1.1 kt PVC installed, amounted 5C + 25 mm2 copper cable as per 13 and 5C stopy of 1.1 kt PVC installed, amounted 5C + 25 mm2 copper cable as per 13 and 5C stopy of 1.1 kt PVC installed, amounted 1CC + 25 mm2 copper cable as per 13 and 5C stopy of 1.1 kt PVC installed, amounted 1CC + 25 mm2 copper cable as per 13 and 5C stopy of 1.1 kt PVC installed, amounted 1CC + 25 mm2 copper cable as per 13 and 5C stopy of 0.1 kt PVC installed, amounted 1CC + 25 mm2 copper cable as per 13 as p							
por TS  Suppy of 1.1 kM PVC insideled, amounted 1C0 x 2.5 mm2 copper cable as per TS  Suppy of 1.5 kM PVC insideled, amounted 12C x 2.5 mm2 copper cable as per TS  Suppy of 1.5 kM PVC insideled, amounted 12C x 2.5 mm2 copper cable as per TS  Suppy of CAR panel for 86 M/AX 3011 kW CMVP power transformer with CPL to due to Changer alongwith all other mandatory sequinement as per TS  Suppy of CAR panel alongwith all other mandatory system required line protectorily in 23 kM Y Line as per TS  Suppy of TAR VAIL time as per TS  Suppy of 11 kW 2-th. 125C km toor type control and relay panel consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter, Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter, Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter, Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter, Vollmenter, Relay & consisting of 12xW VAIC, CTs PF, Ammenter, Vollmenter, Relay & consisting of 12xW VAIC,	28	Supply of 1.1 kV PVC insulated, armoured 2C x 2.5 mm2 copper cable as per TS	Me	eter	140		
as per TS  31 Supply of 1.1 M PVC insulated, amounted 12C x 2.5 mm2 copper cable as per TS  22 Supply of CRE pearle for 66 MVA, 3311 W CNAF power fransformer with On Load by Changer alongwith all other mandatory requirement as per TS  33 Supply of CRE pearle for 66 MVA, 3311 W CNAF power fransformer with On Load by Changer alongwith all other mandatory requirement as per TS  34 Supply of CRE pearle for 66 MVA, 3311 W CNAF power fransformer with On Load by Changer alongwith all other mandatory requirement as per TS  35 Supply of 11 W, 3-ph, 1250R, indoor type control and relay panel consisting of 12cV VCB, CTP, 15 Min Miner, Vollmieter, Relay & consisting of 12cV VCB, CTP, 15 Miner, Vollmieter, Relay & consisting of 12cV VCB, CTP, 15 Miner, Vollmieter, Relay & consisting of 12cV VCB, CTP, 15 Miner, Vollmieter, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, 15 Miner, Relay & consisting of 12cV VCB, CTP, 15 Miner, 15	29	1 1 1	Me	eter	480		
as per 173 22 Supply of CAR panel for 66 MVA, 3311 kV ONAF power transformer with On Load lap Changer alongwith all other mandatory requirement as per 178 33 Supply of CAR panel alongwith all other mandatory system required line protection) for 33 kV Line as per 178 44 Supply of 11 kV, 3-ph, 1200, indoor type control and relay panel consisting of 12 kV VDC, Crs. Frs. Armender, Voltmetre, Relay & accessories complete as per 15 kr 11 kV income for the relation of the consisting of 12 kV VDC, Crs. Frs. Armender, Voltmetre, Relay & accessories complete as per 15 kr 11 kV income fore for from transformer.  35 Supply of 11 kV, 3-ph, 1200A, indoor type control and relay panel consisting of 12 kV VDC, Crs. Frs. Armender, Voltmetre, Relay & accessories complete as per 15 for Blus-Coupler. This include truting panel if required.  36 Supply of 11 kV, 3-ph, 1200A, indoor type control and relay panel consisting of 12 kV VDC, Crs. Frs. Armenter, Voltmetre, Relay & accessories complete as per 15 for 11 kV outgap feeder.  37 110 V, 240AH, Lead And by Battley St and all other accessories complete as per 15 for 11 kV outgap feeder.  38 110 V, Float-Cum-Boost Battley Changer with full wave, full control rectification working on 50 kV, salieg plane As Created From Leading will be subtable to charge 11 for 11 kV outgap from the charger will be subtable to charge 11 for 12 kV outgap from the charger will be subtable to charge 11 for 12 kV outgap from the charger will be subtable to charge 11 for 12 kV outgap from the charger will be subtable to charge 11 for 12 kV outgap from the charger will be subtable to charge 11 for 12 kV outgap from the fore accessories complete as per 15 kV outgap from the substation and the fore accessories complete for excellent panel and complete for excellent panel panel panel pan	30		Me	eter	240		
On Load tap Changer abrogwith all other mandatory requirement as per TS  33 Supply of C&R panel alongwith all other mandatory system required line protection for 3x NV Line as per TS  34 Supply of T RV 3-9h; T2BA, indicor type control and relay panel consisting of 12AV VCB, C1s, F1s, Ammeter, Voltmeier, Relay & accessores complete as per TS for 11AV rounder fleet from transformer.  35 Supply of T1 RV, 3-9h; 12BA, indicor type control and relay panel consisting of 12AV VCB, C1s, F1s, Ammeter, Voltmeier, Relay & accessores complete as per TS for 11AV rounder fleet from transformer.  36 Supply of T1 RV, 3-9h; 12BA, indicor type control and relay panel consisting of 12AV VCB, C1s, Ex accessories complete as per TS for Bue-Coupler. This induced trusting panel frequired.  36 Supply of T1 RV, 3-9h; 12BA, indicor type control and relay panel consisting of 12AV VCB, C1s, Ex accessories complete as per TS for TRV outgoing feeder.  37 T10 V, 240A+1 Lead And by Be Battley Set and all other accessories complete as per TS for TRV outgoing feeder.  38 T10 V, Post-Cum Boos Battley Changer with full wave, full control nortification working on 50 Ptz, single phase AC input Vollage. The changer will be suitable to charge of the part of the changer will be suitable to charge of the part of the changer will be suitable to charge of the part of the changer will be suitable to charge of the suitable on though the changer will be suitable to charge of the suitable on though the changer of the changer will be suitable to charge of the suitable on though the changer of the suitable on the part of the changer will be suitable to charge of the suitable on though and the changer of the suitable on the changer of the suitable on the part of the suitable on the changer of the suitable on the part of the suitable on the changer of the suitable on the part of the suitable on the changer of the suitable on the suitable on the part of the suitable on the change of the suitable on th	31		Me	eter	65		
protection, for 33 kV Line as per TS  34 Supply of 11kV, 3-h, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & socsessories complete as per TS for 11kV incomer feoder from transformer.  35 Supply of 11kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus- Coupler. This include trunking panel if required.  36 Supply of 11kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & socsessories complete as per TS for 11kV outgoing feeder.  37 10tV_2ADAH, Lead Actif pee Battery Set and lother accessories complete  38 110t Practicum-Boost Battery Charger with full wave, full control rectification working on 50 ftz, single phase AC Input Voltage. The charger will be supplied alongwith connectors etc. for connection with 110V, 24OAH battery Set.  39 110t DC Distribution Box as per TS  40 400 volts AC Distribution Box as per TS  41 Supply of Bay Marshalling Klosk as per TS  42 Lighting System complete for switchysaid indusing main gate & substation boundary as per TS  43 Lighting System complete for Control non building as per TS  44 Clarge & Connectors etc. for connection mounting system complete for switchysaid indusing main gate & substation boundary as per TS  45 Lighting System complete for Control non building as per TS  46 Clarge & Connectors etc for sub-station having 1 mos. 33/11 kV transformers, 1 m., 3 kV line  47 Lighting System complete for Control non building as per TS  48 Lighting System complete for Control non building as per TS  49 Clarge & Connectors etc for sub-station having 1 mos. 33/11 kV transformers, 1 m., 3 kV line  45 33 kV, 400 Amp.3 phase v. vertical mounted AB switch for station transformers, 1 m., 3 kV line	32	On Load tap Changer alongwith all other mandatory requirement as per	N	No.	1		
consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.  35 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel frequired.  36 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110V, 240AH, Lead Acid type Battery Set and all other accessories complete as per TS for 11kV outgoing feeder.  38 110V, Float-Cum-Boost Battery Charger with full wave, full control redification working no 50 Hz, single phase AC input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Statery. The charger will be suitable to charge 110V, 240AH, Lead Acid Statery. The charger will be suitable to charge 110V, 240AH, Lead Acid Statery. The charger will be suitable to charge 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  40 400 volts AC Distribution box dispensed of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Klosk as per TS  42 Lighting System complete for switchyard including main gate & substation Soundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp, 3 phase, vertical mounted AB switch for station  46 transformers, 1 no. 33 kV line  47 transformers, 1 no. 33 kV line  48 transformers, 1 no. 33 kV line  49 transformers, 1 no. 33 kV line  40 transformers, 1 no. 33 kV line  40 transformers, 1 no. 33 kV line  40 transformers, 1 no. 33 kV line  41 transformers, 1 no. 34 kV line	33	protection) for 33 kV Line as per TS	N	No.	1		
consisting of 12W VGB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.  36 Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12W VGB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete comp	34	consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay &	N	No.	1		
consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.  37 110 V, 240AH, Lead Acid type Battery Set and all other accessories complete  38 110 V, Float-Cum-Boost Battery Charger with full wave, full control  39 110 V, Float-Cum-Boost Battery Charger with full wave, full control  30 rediffication working on 50 Hz, single phase AC input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  30 110V DC Distribution Box as per TS  40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp, 3 phase , vertical mounted AB switch for station transformer as per TS	35	consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-	N	No.	0		
complete  38  110 V, Float-Cum-Boost Battery Charger with full wave, full control redification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH , Lead Acid Battery. The charger will be suitable to charge 110V, 240AH , Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39  110V DC Distribution Box as per TS  40  400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41  Supply of Bay Marshalling Klosk as per TS  42  Lighting System complete for switchyard including main gate & substation boundary as per TS  43  Lighting System complete for Control room building as per TS  44  Clamp & Connectors etc for sub-station having 1 mos. 33/11 kV transformers, 1 no. 33 kV line  45  33 kV, 400 Amp 3 phase , vertical mounted AB switch for station transformer as per TS	36	consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay &	N	No.	4		
rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.  39 110V DC Distribution Box as per TS  40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp, 3 phase, vertical mounted AB switch for station transformer as per TS	37		S	Set	1		
40 400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV, 400 Amp,3 phase, vertical mounted AB switch for station transformer as per TS	38	rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V,	N	10.	1		
mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.  41 Supply of Bay Marshalling Kiosk as per TS  42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV , 400 Amp,3 phase , vertical mounted AB switch for station transformer as per TS	39	110V DC Distribution Box as per TS	l N	No.	1		
42 Lighting System complete for switchyard including main gate & substation boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV  transformers, 1 no. 33 kV line  45 33 kV , 400 Amp,3 phase , vertical mounted AB switch for station transformer as per TS	40	mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per	N	No.	1		
boundary as per TS  43 Lighting System complete for Control room building as per TS  44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV , 400 Amp,3 phase , vertical mounted AB switch for station transformer as per TS  46 Set 1  The station of the station of the station of the station transformer as per TS	41		N	<b>√</b> 0.	1		
44 Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV transformers, 1 no. 33 kV line  45 33 kV , 400 Amp,3 phase , vertical mounted AB switch for station transformer as per TS	42	boundary as per TS	S	Set	1		
transformers, 1 no. 33 kV line  45  33 kV , 400 Amp,3 phase , vertical mounted AB switch for station transformer as per TS							
transformer as per TS	44	transformers, 1 no. 33 kV line	L	_ot	1		
46 33 kV, 3 phase DO fuse for station transformer as per TS Set 1	45		S	Set	1		
	46	33 kV, 3 phase DO fuse for station transformer as per TS	S	Set	1		

47	11 kV , 400 Amp,3 phase , vertical mounted AB switch for Outgoing DP as per TS	Set	4				
48	Dry Chemical Powder Type(6 Kg) for control room.	No.	1				
49	CO2 Type of 4.5Kg Capacity for Control Room.	No.	1				
50	CO2 Type Trolley Mounted of 22.5 Kg Capacity for Switch Yard.	No	1				
51	Digital IR Tester (2kV-5kV)	No.	1				
52	Digital multi meter	No.	2				
53	Earth resistance tester	No.	1				
54	Stainless Steel Oil sampling bottle (One Litre Capacity)	No.	2				
55	11 kV Discharge Rod(1 set of 3 rods)	Set	1				
56	Battery Voltage Tester	No.	2				
57	33 kV Discharge Rod (1 set of 3 rods)	Set	1				
	Sub-Total (G)						
Н	New 11kV SWITCHING STATION AT DHUNCHE						
1	Supply of 9 kV, 1 phase, 5 KA porcelain housing LA	Nos.	12				
2	Supply of 11 kV, 3 phase HG fuse	Set	4				
3	Supply of 11 kV , 400 Amp,3 phase , vertical mounted AB switch	Set	5				
4	Supply of 11 mtrs long steel tubular poles of 410 grade (410 SP-54)	No.	14				
5	ACSR DOG Conductor	Km.	0.5				
6	Supply of Galvanised fabricated structure for installation of LA, HG Fuse, AB switch etc	Kg	500				
7	Supply of Clamp and connectors	Lot (Lump Sum)	1				
8	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	Sets	24				
9	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes for treated earthing with arrangement to fix raisers	Sets	14				
	Sub-Total (H)						
	Total for Schedule 1 (A+B+C+D+E+F+G+H)						
	Total for Type Test Charges as per Schedule 7b						
	Total for Schedule 1 including Type Test Charges as per 7b						
				1	_	•	

Design, Supply and Installation of Electrification Component works consisting of 33/11kV New Substations and associated 33kV, 11kV & 0.4kV Lines under Reconstruction & Improvement of Electricity in Earthquake Affected Districts of Rasuwa and Nuwakot

(Schedule of rates and prices)

Bidder's Name & Address:

Local Transportation, Insurance and other incidental services (including port clearance etc.) applicable for supply of Plant & Equipment.

1	2	3	4	5	6	7	8 = 6 x 7
SI. No.	Item Description	Country of Origin	Type & Designation	Unit	Quantity	Unit Price (NPR)	Total Price (NPR)
Α	Construction of new 33kV Single Ckt Line for Kalikasthan Substation (5 kms)						
1	Supply of ACSR Dog Conductor (100 Sq mm)			Km.	15.75		
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)			No.	120.00		
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.			MT	7.45		
4	33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS			No.	330.00		
5	70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS			No.	240.00		
6	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator			No.	330.00		
7	Nuts & Bolts ,Washers (plain and spring)			MT	0.75		

8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set	Set	50.00	
9	Guy Strain Insulators designation 'C'	No.	100.00	
10	Stay wire (7/8 SWG or 7/4 mm )	Kg.	456.25	
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	20.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	835.15	
	Sub- Total (A)			
В	Construction of new 33kV Single Ckt Line for Ratmate Substation (2 kms)			
1	Supply of ACSR Dog Conductor (100 Sq mm)	Km.	6.30	
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	48.00	
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	2.98	
4	33 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	132.00	
5	70 KN B&S disc insulator string (one string consisting of 3 nos disc insulator) complete with all Hardware & accessories as per TS	No.	96.00	
6	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator	No.	132.00	
7	Nuts & Bolts ,Washers (plain and spring)	MT	0.30	
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 33 kV stay set	Set	20.00	
9	Guy Strain Insulators designation 'C'	No.	40.00	
10	Stay wire (7/8 SWG or 7/4 mm )	 Kg.	182.50	

		 		_
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	8.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	334.06	
13	33 kV , 400 Amp,3 phase, vertical mounted AB switch for tapping point of existing 33kV line as per TS	No.	1.00	
	Sub- Total (B)			
	11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM			
С	KALIKASTHAN SUBSTATION (4 kms)			
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	km	12.60	
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	96.00	
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	4.60	
4	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	MT	276.00	
5	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	168.00	
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	276.00	
7	Nuts & Bolts ,Washers (plain and spring)		0.46	
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	40.00	
9	Guy Strain Insulators designation 'C'	No.	40.00	
10	Stay wire (7/8 SWG or 7/4 mm )	Set	239.24	
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	16.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	kg	550.20	

	Sub-Total( C )			
D	11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION (6 kms)			
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	km	18.90	
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	144.00	
3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	МТ	6.90	
4	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	MT	414.00	
5	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	252.00	
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	414.00	
7	Nuts & Bolts ,Washers (plain and spring)		0.69	
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	60.00	
9	Guy Strain Insulators designation 'C'	No.	60.00	
10	Stay wire (7/8 SWG or 7/4 mm )	Set	358.86	
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	24.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg	825.30	
	Sub-Total( D )			
E	STRENGTHENING OF DISTRIBUTION NETWORK IN DHUNCHE, GOLJUNG,GATLANG, GREY, HAKU, TIRU AND KALIKASTHAN			

E1	REPLACEMENT OF BARE CONDUCTOR OF EXISTING 11kV LINE (13 KMS)			
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	Km.	40.95	
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	1.43	
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	182.00	
4	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	104.00	
5	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	182.00	
6	Nuts & Bolts ,Washers (plain and spring)	MT	0.14	
7	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attatch Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	52.00	
8	Guy Strain Insulators designation 'C'	No.	52.00	
9	Stay wire (7/8 SWG or 7/4 mm )	Kg.	310.96	
10	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	52.00	
11	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	1788.15	
	Sub-Total (E1)			
E2	NEW 11kV LINE USING XLPE INSULATED AAAC CONDUCTOR OF 55 SQ.MM SIZE (17 kms)			
1	XPLE covered AAAC (Nominal Area 55 sq mm) conductor as per TS	Km.	53.55	
2	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	408.00	

3	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	MT	19.55	
4	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	1173.00	
5	11 kV , 70 KN B&S disc insulator complete with all Hardware & accessories as per TS	No.	714.00	
6	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator	No.	1173.00	
7	Nuts & Bolts ,Washers (plain and spring)	MT	1.96	
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete 11 kV stay set	Set	170.00	
9	Guy Strain Insulators designation 'C'	No.	170.00	
10	Stay wire (7/8 SWG or 7/4 mm)	Kg.	1016.77	
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	68.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	2338.35	
	Sub-Total (E2)			
E3	NEW LT LINE USING XLPE INSULATED AB CABLE OF 3C*35SQ.M+35 SQ.MM (21 kms)			
1	LT 3C X 35 + 35 (Insulated messenger wire) Sq.mm XLPE insulated AB cable with aluminium for phase conductor and aluminium alloy for messenger wire.	Km.	23.10	
2	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	588.00	
3	Fabrication and Supply of M.S. Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	MT	2.94	
4	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	294.00	

5	Anchor clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	294.00	
6	Support hook for suspension / anchor clamps to be used for AB cable	No.	588.00	
7	Nuts & Bolts ,Washers (plain and spring)	MT	0.29	
8	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete LT stay set	Set	210.00	
9	Guy Strain Insulators designation 'A'	No.	210.00	
10	Stay wire (7/12 SWG or 7/2.5 mm)	Kg.	623.49	
11	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	84.00	
12	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	2888.55	
	Sub-Total (E3)			
E4	REPLACEMENT OF BARE CONDUTOR OF EXISTING LT LINE BY AB CABLE OF 3C*35SQ.MM+35SQ.MM (39 kms)			
1	LT 3C X 35 + 35 (Insulated messenger wire) Sq.mm XLPE insulated AB cable with aluminium for phase conductor and aluminium alloy for	Km.	42.90	
2	Fabrication and Supply of M.S. Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	МТ	5.46	
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	546.00	
4	Anchor clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	546.00	
5	Support hook for suspension / anchor clamps to be used for AB cable	No.	1092.00	
6	Nuts & Bolts ,Washers (plain and spring)	MT	0.55	
7	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to attach Anchor Plate to Anchor Rod) to complete LT stay set	Set	195.00	
8	Guy Strain Insulators designation 'A'	No.	195.00	

9	Stay wire (7/12 SWG or 7/2.5 mm)	Kg.	579.15	
10	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	156.00	
11	GI WIRE 8 SWG for earthing & guarding purpose	Kg.	5364.46	
	Sub-Total (E4)			
E5	ADDITIONAL 8MTR LONG STP IN EXISTING LT LINE (120 nos)			
1	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)	No.	120.00	
2	Fabrication and Supply of M.S Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.	KG	600.00	
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable	No.	120.00	
4	Support hook for suspension / anchor clamps to be used for AB cable	No.	120.00	
5	Nuts & Bolts ,Washers (plain and spring)	KG	60.00	
	Sub-Total (E5)			
E6	REPLACEMENT OF DAMAGED POLES BY 11MTR LONG STP IN EXISTING 11kV LINE (10 nos)			
1	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)	No.	10.00	
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.	KG	572.50	
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS	No.	30.00	
4	Preformed insulator bindings (suitable for ACSR conductor) for 33 kV pin insulator	No.	30.00	
5	Nuts & Bolts ,Washers (plain and spring)	KG	57.25	
	Sub-Total (E6)			

		Ī	Ī		
<b>E</b> 7	REPLACEMENTOF WOODEN POLES BY NEW 8 MTR LONG STP IN EXISTING LT LINE (60 nos)				
1	8 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-15)		No.	60.00	
2	Fabrication and Supply of M.S Galvanised items - clamp for eye-hook, Stay clamps, clamp for earth wire etc complete as required.		KG	300.00	
3	Suspension clamp suitable to 35 sq. mm insulated messenger wire for LT AB Cable		No.	60.00	
4	Support hook for suspension / anchor clamps to be used for AB cable		No.	60.00	
5	Nuts & Bolts ,Washers (plain and spring)		KG	30.00	
	Sub-Total (E7)				
E8	ADDITIONAL 11 MTR LONG STP IN EXISTING 11 kV LINE (25 nos)				
1	11 mtr long Galvanised Steel Tubular Pole of 410 grade (410 SP-54)		No.	25.00	
2	Fabrication and Supply of M.S. Galvanised items- Pole Top Bracket, V-Cross arm, Back Clamps for V-Cross arm, D P Channel, D P Channel clamp, Stay clamps angle, Stay clamps side, D P cross bracing & clamps, Guarding arm etc complete as required.		KG	1431.25	
3	11 kV Porcelain pin Insulator with 900 mm creepage distance alongwith 10 KN Pin, nut and washers complete as per TS		No.	75.00	
4	Preformed insulator bindings (suitable for ACSR conductor) for 11 kV pin insulator		No.	75.00	
5	Nuts & Bolts ,Washers (plain and spring)		KG	143.13	
	Sub-Total (E8)				
E9	NEW STAY SETS FOR EXISTING 11 kV LINE (50 sets)				
1	Fabrication and Supply of M.S. Galvanised items- Stay clamps		Kg.	250.00	
2	Nuts & Bolts ,Washers (plain and spring)		Kg.	25.00	

3	Hardware Fittings (1 set consists of Anchor plate - 1 no., Anchor rod - 1 no., Turnbuckle -1 no., Thimbles -2 nos., Guy grips - 4 nos., fasteners to	Set	50.00		
	attatch Anchor Plate to Anchor Rod) to <b>complete 11 kV stay set</b>				
	attation Andrior Flate to Andrior Roughto complete 11 KV stay set				
4	Guy Strain Insulators designation 'C'	No.	50.00		
5	Stay wire (7/8 SWG or 7/4 mm )	Kg.	299.00		
	Sub-Total (E9)				$\neg$
					一
E10	NEW 3-PHASE DISTRIBUTION TRANSFORMERS				
1	Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with	No.	3.00		$\neg$
	CRGO core & copper winding along with all accessories as per TS				
2	Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with	No.	7.00		$\neg$
	CRGO core, copper winding & conservator along with all accessories as				
	per TS				
3	Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer	No.	3.00		$\dashv$
	with CRGO core, copper winding ,conservator and externally operated tap				
	changer along with all accessories as per TS				
4	Supply of 9 kV, 1 phase, 5 KA porcelain housing LA with dis-	No.	39.00		$\dashv$
	connector with all accessories as per TS				
5	Supply of 11 kV, 3 phase, 400 A Drop Out fuse with all accessories as	Set	13.00		
	per TS				
6	Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA,	KG	1300.00		$\neg$
	DO fuse etc				
7	Nuts & Bolts ,Washers (plain and spring)	KG	130.00		$\Box$
8	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth	Set	39.00		$\neg$
	electrodes alongwith clamping arrangement to connect 8 SWG GI wire as				
	per TS				
9	LT Distribution box (compatible to IP-55 enclosure protection) with suitable	No.	3.00		$\dashv$
	rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT		- , -		
	feeders suitable for 3-Phase 11/0.400 kV, 25 kVA,				
	<b>Distribution Transformer</b> suitable for pole mounting without				
	energy meter as per TS				
L					

10	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 50 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	7.00	
11	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 <b>no. 3 phase</b> outgoing LT feeders suitable for 3-Phase <b>11/0.400 kV, 100 kVA, Distribution Transformer</b> suitable for pole mounting without energy meter as per TS	No.	3.00	
12	3.5 core, 95+50 sq mm, 1.1 kV , PVC insulated, armoured cable with copper conductor to connect LT bushing to LTDB	Mtr	130.00	
13	Outdoor cable terminating kits suitable for 3.5 core, 95+50 sq mm, 1.1 kV , PVC insulated, armoured cable with copper conductor  Sub-Total (E10)	Nos.	26.00	
E11	REPLACEMENT OF EXISTING 3 PHASE DISTRIBUTION TRANSFORMERS			
1	Supply of 25 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core & copper winding along with all accessories as per TS	No.	2.00	
2	Supply of 50 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding & conservator along with all accessories as per TS	No	7.00	
3	Supply of 100 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding ,conservator and externally operated tap changer along with all accessories as per TS	No	4.00	
4	Supply of 200 KVA, 11 kV/0.400 kV, 3 phase distribution transformer with CRGO core, copper winding ,conservator and externally operated tap changer along with all accessories as per TS	No	2.00	
5	Supply of 9 kV, 1 phase, 5 KA <b>porcelain housing LA</b> with disconnector with all accessories as per TS	No.	45.00	

6	Supply of 11 kV, 3 phase, 400 Amp. Drop Out fuse with all accessories as per TS	Set	15.00	
7	Fabrication and Supply of M.S. Galvanised items for mounting of DT, LA, DO fuse etc	KG	1500.00	
8	Nuts & Bolts ,Washers (plain and spring)	KG	150.00	
9	Supply of 40 mm dia 3000 mm long GI pipe (medium grade) earth electrodes alongwith clamping arrangement to connect 8 SWG GI wire as per TS	Set	45.00	
10	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 <b>no. 3 phase</b> outgoing LT feeders suitable for 3-Phase <b>11/0.400 kV, 25 kVA, Distribution Transformer</b> suitable for pole mounting without energy meter as per TS	No.	2.00	
11	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 50 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	7.00	
12	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 no. 3 phase outgoing LT feeders suitable for 3-Phase 11/0.400 kV, 100 kVA,  Distribution Transformer suitable for pole mounting without energy meter as per TS	No.	4.00	
13	LT Distribution box (compatible to IP-55 enclosure protection) with suitable rated MCB for incomer & MCCB for 4 <b>no. 3 phase</b> outgoing LT feeders suitable for 3-Phase <b>11/0.400 kV, 200 kVA, Distribution Transformer</b> suitable for pole mounting without energy meter as per TS	No.	2.00	
14	3.5 core, 95+50 sq mm, 1.1 kV, PVC insulated, armoured cable with copper conductor to connect LT bushing to LTDB	Mtr	170.00	
15	Outdoor cable terminating kits suitable for 3.5 core, 95+50 sq mm, 1.1 kV, PVC insulated, armoured cable with copper conductor	No.	34.00	
	Sub-Total (E11)			
E12	SHIFTING OF SERVICE CONNECTIONS (1990 nos)			

1	Pole mounted service connection distribution box alongwith mounting clamp with capacity for 10 connections	No.	199.00	
2	Pole mounted GI clamp to anchor/support at least 10 service lines on pole	No.	199.00	
3	2x6 sq mm PVC insulated co-centric Aluminium service cable	Mtr	49750.00	
	Sub-Total (E12)			
	Sub-Total (E)			
F	New 33/11 kV S/S (2x 6/8 MVA AT RATMATE)			
1	Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap Changer & all accessories as per TS	No.	2	
2	Supply of 33 kV , 1250 Amp VCBs with structure and all accessories as per TS	No.	3	
3	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (without earth switch)with all accessories as per TS	No.	4	
4	Supply of 33 kV, 630 Amp gang operated <b>DBCR Isolator</b> (with earth switch)with all accessories as per TS	No.	1	
5	Supply of 33 kV, 1 phase, 400-200/1-1 Amp <b>Current transformer</b> (alongwith all accessories & 1 Junction Box for 3 CTs) as per TS	No.	9	
6	Supply of 30 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with Surge Monitor and all accessories as per TS	No.	12	
7	Supply of 9 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with all accessories as per TS	No.	12	
8	Supply of $(33/\sqrt{3} \text{ kV})/(110/\sqrt{3} \text{ Volts})$ , <b>1 phase PT</b> (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS	No.	9	
9	33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS	No.	6	
10	Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS	No.	1	
11	11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.	No.	10	
12	Galvanised fabricated structure for 33 kV bus & line gantry	MT	6.8	

13	Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porceclain LA, Isolator, bus coupler isolator,CT & bus post insulator	MT	3.75
14	Nuts, bolts, foundation bolts and washer and other accessories for structures.	MT	1.06
15	70 KN B&S disc insulator string (one string consisting of 4 nos	Set	15
16	Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc )	Meter	153.45
17	100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS	Meter	250
18	16 mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10
19	Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)	Set	25
20	Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Un- Treated earthing with arrangement to fix raisers as per TS	Set	30
21	Supply of 11 kV, XLPE insulated, armoured copper cable as per TS - 3Cx120 sq. mm.	Meter	560
22	Out door termination kit suitable for termination of 11 kV for 3Cx120 sq. mm copper cable in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders	Set	8
23	Supply of 33 kV, XLPE insulated, armoured copper single phase cable as per TS - 1Cx185 sq. mm.	Meter	3000
24	Out door termination kit suitable for termination of 33 kV , 1Cx185 sq. mm copper cable to be used in 33 kV line	Set	30
25	Supply of 1.1 kV, PVC insulated, armoured 3.5 Cx 50 Sq.mm Aluminium cable as per TS	Meter	75
26	Supply of 1.1 kV, PVC insulated, armoured 4Cx16 Sq.mm Aluminium cable as per TS	Meter	150
27	Supply of 1.1 kV PVC insulated, armoured 2C x 10 mm2 copper cable as per TS	Meter	60
28	Supply of 1.1 kV PVC insulated, armoured 2C x 2.5 mm2 copper cable as per TS	Meter	210

29	Supply of 1.1 kV PVC insulated, armoured 5C x 2.5 mm2 copper cable as per TS	Meter	720	
30	Supply of 1.1 kV PVC insulated, armoured 10C x 2.5 mm2 copper cable as per TS	Meter	360	
31	Supply of 1.1 kV PVC insulated, armoured 12C x 2.5 mm2 copper cable as per TS	Meter	100	
32	Supply of C&R panel for 6/8 MVA, 33/11 kV ONAF power transformer with On Load tap Changer alongwith all other mandatory requirement <b>as per TS</b>	No.	2	
33	Supply of C&R panel alongwith all other mandatory system required line protection) for 33 kV Line as per TS	No.	1	
34	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.	No.	2	
35	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.	No.	1	
36	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.	No.	4	
37	110 V, 240AH, Lead Acid type Battery Set and all other accessories complete	Set	1	
38	110 V, Float-Cum-Boost Battery Charger with full wave, full control rectification working on 50 Hz, single phase AC Input Voltage. The charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with 110V, 240AH Battery Set.	No.	1	
39	110V DC Distribution Box as per TS	No.	1	
40	400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per TS.	No.	1	
41	Supply of Bay Marshalling Kiosk as per TS	No.	1	
42	Lighting System complete for switchyard including main gate & substation boundary as per TS	Set	1	

43	Lighting System complete for Control room building as per TS	Set	1	
44	Clamp & Connectors etc for sub-station having 2 nos. 33/11 kV	Lot	1	
	transformers, 1 no. 33 kV line			
45	33 kV , 400 Amp,3 phase, vertical mounted AB switch for station	Set	1	
	transformer of existing 33kV line as per TS			
46	33 kV, 3 phase DO fuse for station transformer as per TS	Set	1	
47	11 kV , 400 Amp,3 phase , vertical mounted AB switch for Outgoing DP	Set	4	
	as per TS			
48	Dry Chemical Powder Type(6 Kg) for control room.	No.	1	
49	CO2 Type of 4.5Kg Capacity for Control Room.	No.	1	
50	CO2 Type Trolly Mounted of 22.5 Kg Capacity for Switch Yard.	No	1	
51	Digital IR Tester (2kV-5kV)	No.	1	
52	Digital multimeter	No.	2	
53	Earth resistance tester	No.	1	
54	Stainless Steel Oil sampling bottle (One Litre Capacity)	No.	2	
55	11 kV Discharge Rod(1 set of 3 rods)	Set	1	
56	Battery Voltage Tester	No.	2	
57	33 kV Discharge Rod (1 set of 3 rods)	Set	1	
	Sub-Total (F)			
G	New 33/11 kV S/S (1x 6/8 MVA AT KALIKASTHAN )			
1	Supply of 6/8 MVA, 33/11 kV ONAF, power transformer with On Load tap	No.	1	
	Changer & all accessories as per TS			
2	Supply of 33 kV , 1250 Amp VCBs with structure and all accessories as	No.	2	
	per TS			
3	Supply of 33 kV , 630 Amp gang operated <b>DBCR Isolator</b>	No.	2	
	(without earth switch) with all accessories as per TS			
4	Supply of 33 kV , 630 Amp gang operated <b>DBCR Isolator</b> (with	No.	1	 
	earth switch)with all accessories as per TS			
5	Supply of 33 kV, 1 phase, 400-200/1-1 Amp <b>Current transformer</b>	No.	6	
	(alongwith all accessories & 1 Junction Box for 3 CTs) as per			
	TS			
6	Supply of 30 kV, 1 phase, 10 KA <b>porcelain housing LA</b> with	No.	9	
	Surge Monitor and all accessories as per TS			

		No.	12		
Supply of $(33/\sqrt{3} \text{ kV})/(110/\sqrt{3} \text{ Volts})$ , <b>1 phase PT</b> (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS		No.	6		
33 kv <b>Bus Post Insulators</b> with fittings and accessories as per TS		No.	3		
Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS		No.	1		
11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.		No.	10		
Galvanised fabricated structure for 33 kV bus & line gantry		MT	5.1		
Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator		MT	2.85		
Nuts, bolts, foundation bolts and washer and other accessories for		MT	0.8		
70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS		Set	9		
Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc.)		Meter	50		
100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS		Meter	250		
16mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)		Set	10		
Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)		Set	25		
Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Un- Treated earthing with arrangement to fix raisers as per TS		Set	30		
Supply of 11 kV, XLPE insulated, armoured copper cable as per TS - 3Cx120 sq. mm.		Meter	420		
	accessories & 1 Junction Box for 3 single phase PTs) as per TS  33 kv Bus Post Insulators with fittings and accessories as per TS  Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS  11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.  Galvanised fabricated structure for 33 kV bus & line gantry  Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator  Nuts, bolts, foundation bolts and washer and other accessories for structures  70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS  Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc)  100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS  16mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)  Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)  Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for UnTreated earthing with arrangement to fix raisers as per TS  Supply of 11 kV, XLPE insulated, armoured copper cable as per TS	accessories as per TS  Supply of (33/√3 kV)/(110 /√3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  3 kv Bus Post Insulators with fittings and accessories as per TS  Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.  Galvanised fabricated structure for 33 kV bus & line gantry  Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator  Nuts, bolts, foundation bolts and washer and other accessories for structures.  70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS  Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc)  100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS  16mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)  Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on Gl frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)  Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Un-Treated earthing with arrangement to fix raisers as per TS  Supply of 11 kV, XLPE insulated, armoured copper cable as per TS-	accessories as per TS  Supply of (33//3 kV)/(110 //3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  33 kv Bus Post Insulators with fittings and accessories as per TS  Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding, station transformer along with all accessories as per TS  11 Mtr long Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.  Galvanised fabricated structure for 33 kV bus & line gantry  Galvanised fabricated structure for 33 kV bus & line gantry  MT  Galvanised fabricated structure for 34 kV bus coupler isolator, CT & bus post insulator  Nuts, bolts, foundation bolts and washer and other accessories for structures  TO KN B&S disc insulator string (one string consisting of 4 nos disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS  Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc)  Meter  100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS  16mm diamtere and 15-meter long (min), copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)  Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)  Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Untreated arthing with arrangement to fix raisers as per TS  Supply of 11 kV, XLPE insulated, armoured copper cable as per TS -	Supply of (331/3 kV)/(110 //3 Volts), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS  33 kv Bus Post Insulators with fittings and accessories as per TS  Supply of 100 KVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS  11 fttriong Galvanised Steel Tubular Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.  Galvanised fabricated structure for 33 kV bus & line gantry  Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator  Nuts, bolts, foundation bolts and washer and other accessories for structures 70 KN B&S disc insulator string (one string consisting of 4 nos disc insulator string (one string consisting of 4 nos disc insulator) complete with all Hardware & accessories as per TS  Supply of ACSR Dog (for 33 kV bus, trf bays jumpers, droppers etc)  Meter  50  Meter  50  Meter  50  Set  10  Set  50  Set  50  Set  50  Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)  Supply of 20 mm dia, 3000 mm long GI Rod as earth electrodes for Untreated earthing with arrangement to fix raisers as per TS  Supply of 11 kV, XLPE insulated, armoured copper cable as per TS  Meter  420	accessories as per TS Supply of (33/3 kV)(I10/3 Volls), 1 phase PT (alongwith all accessories & 1 Junction Box for 3 single phase PTs) as per TS Six bus Post Insulators with fittings and accessories as per TS Supply of 100 kVA, 33 kV/0.400 kV CRGO, Copper winding , station transformer along with all accessories as per TS If Mirror lang davined Steller Unburst Pole (410-SP-54) for Station transformer along with all accessories as per TS If Mirror lang davined Steller Unburst Pole (410-SP-54) for Station transformer and DP structure for outgoing 11 kV feeders as per Technical Specification.  Galvanised fabricated structure for 33 kV bus & line gantry Galvanised fabricated structure for station transformer, DP structure for outgoing 11 kV feeders, porcelain LA, Isolator, bus coupler isolator, CT & bus post insulator Nuls, botts, foundation bolts and washer and other accessories for structures.  Nuls, botts, foundation bolts and washer and other accessories as per TS Supply of ACSR Dog (for 33 kV bus, tif bays jumpers, droppers etc)  Meter  100 sq.mm stranded bare copper conductor for main grid and raisers along with necessary lugs etc as per TS  16mm diamtere and 1.5-meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)  Supply of 40 mm dia 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)  Supply of 20 mm dia, 3000 mm long GI Rod as earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)  Supply of 10 mm dia, 3000 mm long GI Rod as earth electrode with test link, RCC pit, RCC cover, placed on GI frame charcoal, salt and other accessories complete as per TS (treated for transformer, LA, tower with peak)

22	Out door termination kit suitable for termination of 11 kV for 3Cx120 sq. mm copper cable in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders	Set	6		
23	Supply of 33 kV, XLPE insulated, armoured copper single phase cable as per TS - 1Cx185 sq. mm.	Meter	3000		
24	Out door termination kit suitable for termination of 33 kV , 1Cx185 sq. mm copper cable to be used in 33 kV line	Set	30		
25	Supply of 1.1 kV, PVC insulated, armoured 3.5 Cx 50 Sq.mm Aluminium cable as per TS	Meter	75		
26	Supply of 1.1 kV, PVC insulated, armoured 4Cx16 Sq.mm Aluminium cable as per TS	Meter	100		
27	Supply of 1.1 kV PVC insulated, armoured 2C x 10 mm2 copper cable as per TS	Meter	40		
28	Supply of 1.1 kV PVC insulated, armoured 2C x 2.5 mm2 copper cable as per TS	Meter	140		
29	Supply of 1.1 kV PVC insulated, armoured 5C x 2.5 mm2 copper cable as per TS	Meter	480		
30	Supply of 1.1 kV PVC insulated, armoured 10C x 2.5 mm2 copper cable as per TS	Meter	240		
31	Supply of 1.1 kV PVC insulated, armoured 12C x 2.5 mm2 copper cable as per TS	Meter	65		
32	Supply of C&R panel for 6/8 MVA, 33/11 kV ONAF power transformer with On Load tap Changer alongwith all other mandatory requirement <b>as per TS</b>	No.	1		
33	Supply of C&R panel alongwith all other mandatory system required line protection) for <b>33 kV Line as per TS</b>	No.	1		
34	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV incomer feeder from transformer.	No.	1		
35	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs & accessories complete as per TS for Bus-Coupler. This include trunking panel if required.	No.	0		
36	Supply of 11 kV, 3-ph, 1250A, indoor type control and relay panel consisting of 12kV VCB, CTs, PTs, Ammeter, Voltmeter, Relay & accessories complete as per TS for 11kV outgoing feeder.	No.	4		

	110 V, 240AH, Lead Acid type Battery Set and all other accessories complete	Set	1	
38	110 V, Float-Cum-Boost Battery Charger with full wave, full control	No.	1	
	rectification working on 50 Hz, single phase AC Input Voltage. The			
	charger will be suitable to charge 110V, 240AH, Lead Acid Battery. The charger will be supplied alongwith connectors etc. for connection with			
	110V, 240AH Battery Set.			
	•	NI.	4	
	110V DC Distribution Box as per TS	No.	1	
	400 volts AC Distribution board/panel of sheet steel enclosed cubical, floor mounting type for catering auxiliary power supply of the substation	No.	1	
	alongwith CT operated 3 phase 4 wire energymeter & CTs complete as per			
	TS.			
41	Supply of Bay Marshalling Kiosk as per TS	No.	1	
	Lighting System complete for switchyard including main gate & substation	Set	1	
	boundary as per TS		·	
43	Lighting System complete for Control room building as per TS	Set	1	
44	Clamp & Connectors etc for sub-station having 1 nos. 33/11 kV	Lot	1	
	transformers, 1 no. 33 kV line			
	33 kV , 400 Amp,3 phase , vertical mounted AB switch for station	Set	1	
	transformer as per TS			
	33 kV, 3 phase DO fuse for station transformer as per TS	Set	1	
	11 kV , 400 Amp,3 phase , vertical mounted AB switch for Outgoing DP	Set	4	
	Dry Chemical Powder Type(6 Kg) for control room.	No.	1	
	CO2 Type of 4.5Kg Capacity for Control Room.	No.	1	
	CO2 Type Trolley Mounted of 22.5 Kg Capacity for Switch Yard.	No	1	
51	Digital IR Tester (2kV-5kV)	No.	1	
52	Digital multi meter	No.	2	
53	Earth resistance tester	No.	1	
54	Stainless Steel Oil sampling bottle (One Litre Capacity)	No.	2	
	11 kV Discharge Rod(1 set of 3 rods)	Set	1	
	Battery Voltage Tester	No.	2	
	33 kV Discharge Rod (1 set of 3 rods)	Set	1	
	Sub-Total (G)			

Н	New 11kV SWITCHING STATION AT DHUNCHE				
1	Supply of 9 kV, 1 phase, 5 KA porcelain housing LA		Nos.	12	
2	Supply of 11 kV, 3 phase HG fuse		Set	4	
3	Supply of 11 kV , 400 Amp,3 phase , vertical mounted AB switch		Set	5	
4	Supply of 11 mtrs long steel tubular poles of 410 grade (410 SP-54)		No.	14	
5	ACSR DOG Conductor		Km.	0.5	

Design, Supply and Installation of Electrification Component works consisting of 33/11kV New Substations and associated 33kV, 11kV & 0.4kV Lines under Reconstruction & Improvement of Electricity (Schedule of rates and prices)

Bidder's Name & Address:

## Installation Charges

1	2	5	6.00	10	11 = 6 x 10
SI. No.	Item Description	Unit	Quantity	Portion in Lo	ocal Currency
				Unit Price (NPR)	Total Price (NPR)
(1)	(2)	(4)			
Α	Construction of new 33kV Single Ckt Line for Kalikasthan Substation				
1	Route survey and pole spotting of 11 KV line as per TS.	Km.	5.00		
2	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas per approved drawing & TS. This includes supply of foundation material	No.	120.00		
3	Stringing of 3- ph 3-wire 33 kV S/C line with ACSR Dog conductor including installation of all fabricated material, insulators, hardware fittings, guarding along the line (in busy area and at various crossings), continuous earth wire along the line & jumpering etc. as per TS. This shall also include supply and installation of mid span joints, repair sleeves PG clamps, danger plate & anti-climbing device. Danger plate & anti-climbing device will be installed on all Double/four Pole structures and poles on both side of various crossings. Cost of the Danger plate & anti-climbing device is to be included in this item	Km	5.00		
4	11 kV Stay Set complete in all respect as per TS	Set	50.00		
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	20.00		
	Sub- Total (A)				
В	Construction of new 33kV Single Ckt Line for Ratmate Substation				
1	Route survey and pole spotting of 11 KV line as per TS	Km.	2.00		
2	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas per approved drawing & TS. This includes supply of foundation material	No.	48.00		

3	Stringing of 3- ph 3-wire 33 kV S/C line with ACSR Dog conductor including installation of all fabricated material, insulators, hardware fittings, guarding along the line (in busy area and at various crossings), continous earth wire along the line & jumpering etc. as per TS. This shall also include supply and installation of mid span joints, repair sleeves PG clamps, danger plate & anti-climbing device. Danger plate & anti-climbing device will be installed on all Double/four Pole structures and poles on both side of various crossings. Cost of the Danger plate & anti-climbing device is to be included in this item.	Km	2.00	
4	11 kV Stay Set complete in all respect as per TS	Set	20.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	8.00	
6	Erection of AB switch on double pole of 33kV Line at tapping point.	No.	1.00	
	Sub- Total (B)			
С	11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM KALIKASTHAN SUBSTATION			
1	Route survey and pole spotting of 11 KV line as per TS.	Km.	4.00	
2	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas per approved drawing & TS. This includes supply of foundation material	No.	96.00	
3	Stringing of 3- ph 3-wire 11 kV S/C line with XLPE insulated AAAC conductor of 55 sq mm size, including installation of all fabricated material, insulators, hardware fittings, guarding along the line (in busy area and at various crossings), continous earth wire along the line & jumpering etc. as per TS. This shall also include supply and installation of mid span joints, repair sleeves PG clamps, danger plate & anti-climbing device. Danger plate & anti-climbing device will be installed on all Double Pole structures and poles on both side of various crossings. Cost of the Danger plate & anti-climbing device is to be included in this item.	Km	4.00	
4	11 kV Stay Set complete in all respect as per TS	Set	40.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	16.00	
	Sub- Total (C)			
D	11 kV HT LINE USING XLPE COVERED CONDUCTOR FROM RATMATE SUBSTATION			
<u> </u>	11 K4 111 LINE COMO ALI E COVERNE CONDUCTOR I ROM RATMATE CODCIATION			

1	Route survey and pole spotting of 11 KV line as per TS.	Km.	6.00	
2	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas per approved drawing & TS. This includes supply of foundation material	No.	144.00	
3	Stringing of 3- ph 3-wire 11 kV S/C line with XLPE insulated AAAC conductor of 55 sq mm size, including installation of all fabricated material, insulators, hardware fittings, guarding along the line (in busy area and at various crossings), continous earth wire along the line & jumpering etc. as per TS. This shall also include supply and installation of mid span joints, repair sleeves PG clamps, danger plate & anti-climbing device. Danger plate & anti-climbing device will be installed on all Double Pole structures and poles on both side of various crossings. Cost of the Danger plate & anti-climbing device is to be included in this item.	Km	6.00	
4	11 kV Stay Set complete in all respect as per TS	Set	60.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil ) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	24.00	
	Sub- Total (D)			
E	STRENGTHENING OF DISTRIBUTION NETWORK IN DHUNCHE, GOLJUNG,GATLANG, GREY, HAKU, TIRU AND KALIKASTHAN			
E1	REPLACEMENT OF BARE CONDUCTOR OF EXISTING 11kV LINE			
1	Survey of existing 11 KV line	Km.	13.00	
2	Dismantling of existing conductor, damged insulators & fabricated items like cross arm, clamps etc from 3 ph existing line and to transport & deposite the same to the designated store of NEA	Km.	13.00	
3	Stringing of 3- ph 3-wire 11 kV S/C line with XLPE insulated AAAC conductor of 55 sq mm size, including replacement of damaged fabricated material, insulators, hardware fittings, guarding along the line (in busy area and at various crossings), continous earth wire along the line etc. as per TS. This shall also include supply and installation of mid span joints, repair sleeves PG clamps, danger plate & anti-climbing device. Danger plate & anti-climbing device will be installed on all Double Pole structures and poles on both side of various crossings. Cost of the Danger plate & anti-climbing device is to be included in this item.	Km	13.00	
4	11 kV Stay Set complete in all respect as per TS	Set	52.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	52.00	

	Sub- Total (E1)			
E2	NEW 11kV LINE USING XLPE INSULATED AAAC CONDUCTOR OF 55 SQ.MM SIZE			
1	Route survey and pole spotting of 11 KV line as per TS.	Km.	17.00	
2	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas per approved drawing & TS. This includes supply of foundation material	No.	408.00	
3	Stringing of 3- ph 3-wire 11 kV S/C line with XLPE insulated AAAC conductor of 55 sq mm size, including installation of all fabricated material, insulators, hardware fittings, guarding along the line (in busy area and at various crossings), continous earth wire along the line & jumpering etc. as per TS. This shall also include supply and installation of mid span joints, repair sleeves PG clamps, danger plate & anti-climbing device. Danger plate & anti-climbing device will be installed on all Double Pole structures and poles on both side of various crossings. Cost of the Danger plate & anti-climbing device is to be included in this item.	Km	17.00	
4	11 kV Stay Set complete in all respect as per TS	Set	170.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	68.00	
	Sub- Total (E2)			
E3	NEW LT LINE USING XLPE INSULATED AB CABLE OF 3C*35SQ.M+35 SQ.MM			-
1	Route survey and pole spotting of LT line as per TS.	Km.	21.00	
2	Erection of 8 mts. long steel tubular pole including foundation with muffing and copas as per approved drawing & TS. This includes supply of foundation material	No.	588.00	
3	Stringing of LT AB cable 3C X 35 +35 (insulated messenger wire) alongwith installation of clamps, supporthook, anchor and suspension clamps, jointing of cable, continous earth wire along the line etc. This shall also include supply and installation of mid span joints, repair sleeves etc	Km	21.00	
4	LT Stay Set complete in all respect as per TS	Set	210.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	84.00	
	Sub- Total (E3)			
E4	REPLACEMENT OF BARE CONDUTOR OF EXISTING LT LINE BY AB CABLE OF 3C*35SQ.MM+35SQ.MM			

1	Survey of existing LT line	Km.	39.00	
2	Dismantling of existing conductor, insulators, and all fabricated items like cross arm, clamps etc from 3 ph existing LT line and to transport & deposite the same to the designated store of NEA	Km.	39.00	
3	Stringing of LT AB cable 3C X 35 +35 (insulated messenger wire) alongwith installation of clamps, supporthook, anchor and suspension clamps, jointing of cable, continous earth wire along the line etc. This shall also include supply and installation of mid span joints, repair sleeves etc	Km	39.00	
4	LT Stay Set complete in all respect as per TS	Set	195.00	
5	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	156.00	
	Sub- Total (E4)			
E5	ADDITIONAL 8MTR LONG STP IN EXISTING LT LINE			
1	Erection of 8 mts. long steel tubular pole including foundation with muffing and copas as per approved drawing & TS. This includes supply of foundation material	No.	120.00	
	Sub- Total (E5)			
E6	REPLACEMENT OF DAMAGED POLES BY 11MTR LONG STP IN EXISTING 11kV LINE			
1	Up-rooting the existing poles including dismantling of all items and deposit the same in designated store(s) of NEA	No.	10.00	
2	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas as per approved drawing & TS. This includes supply of foundation material	No.	10.00	
	Sub- Total (E6)			
E7	REPLACEMENTOF WOODEN POLES BY NEW 8 MTR LONG STP IN EXISTING LT LINE			
1	Up-rooting the existing poles including dismantling of all items and deposit the same in designated store(s) of NEA	No.	60	+
'	op recently the smearing period moduling distributing or an itemic and deposit the same in designated store(s) of the t	110.		
2	Erection of 8 mts. long steel tubular pole including foundation with muffing and copas as per approved drawing & TS. This includes supply of foundation material	No.	60	
	Sub- Total (E7)			
E8	ADDITIONAL 11 MTR LONG STP IN EXISTING 11 kV LINE			
ĽŎ	ADDITIONAL IT WITE LONG SIP IN EXISTING IT EV LINE			

Sub-Total (E8)  E9 STRAIGHTENING OF TILTED POLES IN EXISTING 11 kV LINE  1 Starightening of existing pole using rope etc. & then providing foundation as per approved drawing & TS. This includes supply of offondation material  Sub-Total (E9)  NEW STAY SETS FOR EXISTING 11 kV LINE  1 Exection of 11 kV Stay Set complete in all respect as per TS  Sub-Total (E10)  E11 NEW 3-PHASE DISTRIBUTION TRANSFORMERS  1 Installation of 3-Phase 110.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS gadvanised times, LA Do Fuse & LT Distribution tox etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply. & installation of Danger plate, sign board, anti-climbing device.  2 Installation of 3-Phase 110.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised timens, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply. & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 110.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 E	1	Erection of 11 mts. long steel tubular pole including foundation with muffing and copas as per approved drawing & TS. This includes supply of foundation material	No.	25.00	
Starightening of existing pole using rope etc. & then providing foundation as per approved drawing & TS. This includes supply of foundation material  Sub-Total (E9)  E10 NEW STAY SETS FOR EXISTING 11 kV LINE  1 Erection of 11 kV Stay Set complete in all respect as per TS  Sub-Total (E10)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  1 Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Janger plate, sign board, anti-climbing device.  2 Installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in th		Sub- Total (E8)			
Starightening of existing pole using rope etc. & then providing foundation as per approved drawing & TS. This includes supply of foundation material  Sub-Total (E9)  E10 NEW STAY SETS FOR EXISTING 11 kV LINE  1 Erection of 11 kV Stay Set complete in all respect as per TS  Sub-Total (E10)  NEW 3-PHASE DISTRIBUTION TRANSFORMERS  1 Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Janger plate, sign board, anti-climbing device.  2 Installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in th					
of foundation material  Sub-Total (E9)  E10 NEW STAY SETS FOR EXISTING 11 kV LINE  1 Erection of 11 kV Stay Set complete in all respect as per TS  Sub-Total (E10)  E11 NEW 3-PHASE DISTRIBUTION TRANSFORMERS  1 Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of 3-Phase 11/0.400 kV, 50 kVA Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of 3-Phase 11/0.400 kV, 50 kVA Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines its part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pip	E9				
E10 NEW STAY SETS FOR EXISTING 11 kV LINE  1 Erection of 11 kV Stay Set complete in all respect as per TS  Set 50.00  Sub- Total (E10)  E11 NEW 3-PHASE DISTRIBUTION TRANSFORMERS  1 Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT indicate and the process of the connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT indicate and the process of the connector of the connect	1		No.	50.00	
Sub-Total (E10)   Sub-Total		Sub- Total (E9)			
Sub-Total (E10)   Sub-Total	E10	NEW STAY SETS FOR EXISTING 11 kV LINE			
Sub-Total (E10)  E11 NEW 3-PHASE DISTRIBUTION TRANSFORMERS  1 Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT item smay be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Dox etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth elec			Set	50.00	
Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  2 Installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.		, , ,			
Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  2 Installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.					
including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  2 Installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.					
including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  3 Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt as per TS.  This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	1	including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply &	No.	3.00	
including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.  4 Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt as per TS.  This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	2	including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply &	No.	7.00	
This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	3	including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply &	No.	3.00	
Sub-Total (F11)	4	This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in	Set	39.00	
Oux-10tal(E11)		Sub- Total (E11)			

E12	REPLACEMENT OF EXISTING 3 PHASE DISTRIBUTION TRANSFORMERS			
1	Dismantling of existing DTs alongwith all accessories and transporting it to store	No.	15.00	
2	Installation of 3-Phase 11/0.400 kV, 25 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.	No.	2.00	
3	Installation of 3-Phase 11/0.400 kV, 50 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.	No.	7.00	
4	Installation of 3-Phase 11/0.400 kV, 100 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.	No.	4.00	
5	Installation of 3-Phase 11/0.400 kV, 200 kVA Distribution Transformer alongwith all associated equipment & accessories including fixing of MS galvanised items, LA, DO Fuse & LT Distribution box etc. All connections of DT from HT Line, LTDB upto LT lines is part of this item. HT & LT lines may be with bare conductor or with covered conductor/AB cable. Supply of connector(s) required to complete HT & LT side connections is included in this item This item also includes supply & installation of Danger plate, sign board, anti-climbing device.	No.	2.00	
6	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	45.00	
	Sub- Total (E12)			
E13	SHIFTING OF SERVICE CONNECTIONS			

1	Mounting service connection distribution box and GI clamp (to anchor/support service lines) on pole, Replacing the existing service line & charging the service line from LT line /Junction box. This also includes connections to existing energy meters at consumer end to complete the service connection in all respect. The cost of Piercing type connectors to feed Junction Box/service line from LT line is also to be included in this item	No. of connections	1990.00	
	Sub-Total (E13)			
	Sub-Total (E)			

F	New 33/11 kV S/S (2x 6/8 MVA AT RATMATE)			
1	Foundation for 6/8 MVA, 33/11 kV transformer including shuttering, Reinforcement bar, concreting (M25), excavation back filling,as etc as per approved drawing	No.	2.00	
2	Installation, testing & commissioning of 6/8 MVA, 33/11 kV transformer along with all accessories complete as per TS	No.	2.00	
3	Foundation of 33 kV , 1250 Amp VCBs including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	3.00	
4	Erection with structure, testing & commissioning of 33 kV , 1250 Amp VCBs	No.	3.00	
5	Foundation of 33 kV , 630 Amp DBCR Isolator <u>without earth switch</u> including shuttering, Reinforcement bar, concreting (M25), excavation back filling,as etcas per approved drawing	No.	4.00	
6	Erection alongwith structure, testing & commissioning of 33 kV, 630 Amp DBCR Isolator without earth switch	No.	4.00	
7	Foundation of 33 kV, 630 Amp DBCR Isolator <u>with earth switch</u> including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	1.00	
8	Erection alongwith structure , testing & commissioning of 33 kV , 630 Amp DBCR Isolator with earth switch	No.	1.00	
9	Foundation of 33kV CT including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc (one combine foundation for three CTs) as per approved drawing.	No.	3.00	
10	Erection alongwith structure, testing & commissioning of 33 kV, 1 phase Current Transformer including testing & commissioning	No.	9.00	
11	Foundation for 30 kV, 1 phase, 10 KA porcelain LA s per approved drawing (One combined foundation for 3 LA) for transformer including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc	No.	2.00	
12	Erection alongwith structure 30 kV, 1 phase, 10 KA porcelain LA including testing & commissioning	No.	6.00	
13	Installation of 30 kV, 1 phase, 10 KA porcelain LA on line gantry including testing & commissioning for 33 kV line	No.	3.00	
14	Foundation for [33/Sqrt(3)] kV/[110 /sqrt(3)] Volts, 1 phase PT as per approved drawing (One combined foundation for 3 PTs) including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc	No.	3.00	
15	Erection alongwith structure [33/Sqrt(3)] kV/[110 /sqrt(3)] Volts, 1 phase PT including testing & commissioning	No.	9.00	
16	Foundation for 33 kV post insulator including shuttering, Reinforcement bar, concreting (M25), excavation, back filling, as etc as per approved drawing	No.	6.00	

17	Erection alongwith structure 33 kV post insulators along with all fittings and accessories	No.	6.00	
18	Erection, testing & commissioning of 100 kVA, 33/0.400 kV, 3 ph, 50 Hz, ONAN, Outdoor Station Transformer on double pole steel tubular pole including PCC (1:2:4) foundation with for pole, erection poles and all steel fabricated structures, installation of transformer and all accessories viz AB switch, DO fuse, LA etc complete in all respect	Set	1.00	
19	Foundation of <b>bus gantry</b> tower including shuttering, Reinforcement bar, concreting (M25), excavation back filling,as etc as per approved drawing	No.	6.00	
20	Erection of <b>33 kV bus gantry</b> (consisting of 2 towers & 1 beam) as per approved drawing. This also includes the erection of one spike per gantry for lightning protection and its earthing	No.	3.00	
21	Foundation of <b>line gantry</b> tower including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	2.00	
22	Erection of 33 kV line gantry (consisting of 2 towers & 1 beam) as per approved drawing. This also includes the erection of one spike per gantry for lightning protection and its earthing	No.	1.00	
23	Stringing of 33 kV Bus bar, Line bay & transformer bay, as required, including all droppers, jumpers and inter connection with all outdoor equipments using ACSR dog conductor & insulator with hardware, clamps, connector etc complete in all respect	Meter	153.45	
24	Earthing and grounding conductor as per approved Electrical Layout for Substation using 100 sq mm stranded bare copper conductor for main grid and raisers along with necessary lugs as per TS	Meter	250.00	
25	Earthing using 16mm diameter and 1.5 meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10.00	
26	Earthing - using 40 mm dia 3000 mm long pipe earth electrodes with test links, RCC pits, CI cover hinged to CI frame, Charcoal, Salt (Alternatively Calcium Bentonite clay & black soil as per TS) and other accessories required for connection with earth mat (including supply of all materials required for treated earth pit except supply items like 40 mm dia GI pipe with fixing arrangement)	Set	25.00	
27	Drilling of hole in all kinds of soil/boulder/rock upto 50 mtr depth below ground level at 4 locations for installation of 40 mm dia MS rod using any suitable method as per IS standard. This includes supply of all materials (excluding 40 mm dia MS rod), equipments, labours, tools etc required for boring and protecting the soil from falling back into the pit during the process all complete as per technical specification. This includes installation of 40 mm dia rod in the pit and back filling the same with soil free from foreign material.	Meter	200.00	
28	Earthing - using 20 mm dia, 3000 mm long GI Rod as earth electrodes and other accessories etc. (Untreated) to be buried below ground and other accessories required for connection with earth mat (including supply of all materials required for untreated earth pit except supply items like 20 mm dia GI rod with fixing arrangement)	Set	30.00	

29	Mobilisation /transportation charges of plant & machinery,tools & tackles,men & materials etc. for drilling of holes	LS	1.00	
30	Laying of 11 kV HT, XLPE insulated, copper Cable in ground including termination in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders and indoor 11kv VCB panel - 3 Core x 120 mm2	Meter	560.00	
31	Laying of 33 kV HT, XLPE insulated , copper Cable in ground inclduing termination - 1 Core x 185 mm2	Meter	3000.00	
32	Erection of double pole structure using steel tubular pole including concrete foundation for pole, erection of poles and all steel fabricated structures along with all accessories, viz LA, AB switch etc complete in all respect for 11kV outgoing feeder.	No.	4.00	
33	Laying of 1.1 KV grade PVC insulated, armored 3.5cx50 mm2 Aluminum cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	75.00	
34	Laying of 1.1 KV grade PVC insulated, armored 4C x 16 mm2 Aluminum cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	150.00	
35	Laying of 1.1 KV grade PVC insulated, armored 2C x 10 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	60.00	
36	Laying of 1.1 KV grade PVC insulated, armored 2C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	210.00	
37	Laying of 1.1 KV grade PVC insulated, armored 5C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	720.00	
38	Laying of 1.1 KV grade PVC insulated, armored 10C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	360.00	
39	Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	100.00	
40	Installation (including foundation, as per approved drawing, alongwith supply of all foundation material), testing & commissioning of 33 kV C&R panel for Power trf.	No.	2.00	
41	Installation (including foundation, as per approved drawing, alongwith supply of all foundation material), testing & commissioning of 33 kV C&R panel for <b>33 kV line</b>	No.	1.00	

42	Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB <b>Incoming Feeder Panels</b> as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)	No.	2.00	
43	Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB <b>Bus Coupler Panels (alongwith Trunking panel, if required)</b> as per approved drawing. This includes all inter-panel connections (all material except cable required for this purpose will be included in this item.)	No.	1.00	
44	Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB <b>Out Going Feeder Panels</b> as per approved drawing. This includes all inter-panel connections (all material except cable required for this purpose will be included in this item.)	No.	4.00	
45	Installation, testing & commissioning of 110 V, 240AH, Lead Acid type <b>Battery Set a</b> longwith supply & installation of accessories complete as per TS.	Set	1.00	
46	Installation, testing & commissioning of 110V, Float-Cum-Boost Battery Charger & in-built DCDB alongwith supply & installation of all accessories to complete the DC power system ( with 110V, 240AH Battery) as per TS.	No.	1.00	
47	Installation of (floor/wall mounted including supply of all material required for installation), testing & commissioning of 400 Volts AC Distribution board/panel alongwith supply & installation of all accessories to complete auxiliary AC power supply system as per TS.	No.	1.00	
48	Installation of (floor/wall mounted including supply of all material required for installation), testing & commissioning of 110 <b>Volts DC Distribution board/panel</b> alongwith supply & installation of all accessories to complete auxiliary DC power supply system as per TS.	No.	1.00	
49	Installation of Bay Marshalling Kiosk (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning complete with cabling as per TS	No.	1.00	
50	Installation of all fittings & fixtures as per approved layout complete with cabling, switch boards etc for switchyard Lighting System, main-gate & substation boundary as per TS	Set	1.00	
51	Installation of all fittings & fixtures as per approved layout complete with cabling, switch boards etc for <b>control room building lightng</b> as per TS	Set	1.00	
52	Soil Investigation & Contour Survey of Substation area (New Sub-station)	Per S/S	1.00	

53	Earth work in PSS site with ordinary soil (vide classification of soil item - A) obtained from borrow pits free from logs, stumps, roots, rubbish or any other ingredients likely to deteriorate or affect the stability of the site surface including breaking the clods maximum to 60 mm. cube, placing the earth in layers not exceeding 225 mm in loose thickness, rough dressing including cost of cutting and removing shrubs, roots falling in borrow area all complete as per approved design, as per technical specification. (Mode of Measurement: Sectional measurement after required compaction.)	Cu. Meter	100.00	
54	Earthwork in excavation and filling in PSS site, all types of soil in open areas/ nallas/ channels, to the required slopes, shapes, levels, elevations and profile, including trimming of bottom and slopes of excavation, bailing out rain (dewatering), pumping, removal of slush, preparing embankments/ marginal banks, loosening, dressing, spreading material in layers not exceeding 200mm, as per directions of Engineer-in-charge, water flooding, compacting to achieve 95 percent consolidation at optimum moisture content, finishing etc. all complete, for all leads within the leveling boundary and all lifts, with all labour, material, tools, tackles and equipment, safeguards and incidentals, as necessary, as per drawings, specification and directions of Engineer-in-Charge.	Cu. Meter	5000.00	
55	Earthwork in excavation in PSS site, all types of soil in open areas/ nallas/ channels, to the required slopes, shapes, levels, elevations and profile, and disposal of excess excavated earth upto a lead of 2.0 KM or as directed by Engineer-in-charge. All kinds of soil	Cu. Meter	100.00	
56	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete including construction of 600 mm high and 230 mm wide cement concrete (1:3:6) (1 cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) toe wall at the lowest portion of stone pitching area etc. completed as per the instruction of Engineer-In-Charge.	Sq. Meter	200.00	
57	Gravel filling in switchyard area excluding road, trenches etc. Including Antiweed Treatment after neatly levelled and compacted the ground (All completed as per TS)	Cu. Meter	67.50	
58	Construction of Boundary Wall (including supply of all material) with fixing of MS angle & Barbed Wire fencing all along the boundary wall including supply and fixing of main gate - complete with painting etc all as per approved drawing & TS (Measurement for this purpose will include length of gate along boundary wall)	Meter	300.00	
59	Construction of retaining wall with random rubble masonary in cement sand mortar (1:6) including levelling up with cement concrete (1:6:12), providing weep holes of PVC pipes (150 mm dia) with necessary filter material at the mouth of weep holes, 50 mm thick cement concrete (1:2:4) copping on the top of wall, 100 mm thick PCC (1:4:8) below RR masonary work, excavation of foundation for all lifts up to 6.00 Mtr. above lower level including pointing on exposed portion of wall. Item of excavation, PCC (1:2:4 & 1:4:8) shall be measured and paid seperately under respective items of BPS	Cu. Meter	1500.00	

60	Supplying-providing stone work packed in steel wire crates as per approved design and drawing including all lead and lifts along boundary wall and other places as required (work shall be carried out as per TS)	Cu. Meter	100.00	
61	Erection of security fencing & switchyard gate and construction of toe wall as per approved drawings & TS. Supply of all the material required for this work is included in this item.	Meter	55.00	
62	Construction of Drainage System in the Substation premises all complete as approved Drawing and Specification. Cross section of drain should be at least 450 X 650 MM.	Meter	350.00	
63	Construction of 3.75 meter wide RCC Approach Road within substation boundary (including supply of all material) all complete as per approved drawing & TS including cement concrete kerb stone along two side of road.	Meter	100.00	
64	Construction of 4 meter wide RCC Access Road outside substation boundary (including supply of all material) all complete as per approved drawing & TS including cement concrete kerb stone along two side of road.	Meter	150.00	
65	Construction (including supply of all material) of Cable Trench alongwith pre-cast RCC Trench Cover, cast in situ RCC base and wall, Brick Work wherever required all complete as approved Drawing & TS outside the control room building <b>0.50 Meter wide Trench (650 mm deep)</b>	Meter	50.00	
66	Building Works of Control Building, Office Building and Staff Quarter			
i	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	Cu.M	3000.00	
ii	One layer brick soiling	Cu.M	100.00	
iii	Providing and laying of Plain Cement Concrete (PCC) (1:4:8) (1 cement: 4 Coarse Sand: 8 stone aggregate of 40 mm nominal size) including centering and shuttering.	Cu.M	150.00	
iv	Providing and laying of Plain Cement Concrete (PCC) (1:2:4) (1 cement: 2 Coarse Sand :4 stone aggregate of 20 mm nominal size) including centering and shuttering.	Cu.M	53.00	
V.	Providing and laying of Reinforced Cement Concrete Design Mix M25 including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	Cu.M	1323.75	
vi.	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.	MT	123.75	
67	All civil works including brick work, internal finish, water supply and sanitation work and all Electrical works (for control room, office building and staff quarter) for following buildings as per technical specification and approved drawings but excluding external finish, excavation, PCC, RCC and reinforcement steel (Fe-500), which shall be measured and paid seperately under respective items of BPS:			
	i) Office building	Sq.Meter	165.00	
	ii) Staff quarter			

	Ground Floor	Sq.Meter	276.00	
	First Floor	Sq.Meter	276.00	
	iii) Control Room Building excluding electrification work.	Sq.Meter	162.00	
68	External finish as per specification for following buildings:			
	i) Office building	Sq.Meter	165.00	
	ii) Staff quarter	Sq.Meter	552.00	
	iii) Control Room Building	Sq.Meter	162.00	
69	Guard Room with toilet and pantry all complete as per drawing.	Sq ft	120.00	
	Sinking of Tubewell and installation of motor operated submersible pump of suitable capacity and reputed make (All items to be supplied by the contractor. Make of motor/pump to be approved by NEA). Work shall be executed as per TS.	No.	1.00	
	Sub-Total (F)			

G	New 33/11 kV S/S (1x 6/8 MVA AT KALIKASTHAN )			
1	Foundation for 6/8 MVA, 33/11 kV transformer including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	1.00	
2	Installation, testing & commissioning of 6/8 MVA, 33/11 kV transformer along with all accessories complete as per TS	No.	1.00	
3	Foundation of 33 kV , 1250 Amp VCBs including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	2.00	
4	Erection with structure, testing & commissioning of 33 kV , 1250 Amp VCBs	No.	2.00	
5	Foundation of 33 kV , 630 Amp DBCR Isolator <u>without earth switch</u> including shuttering, Reinforcement bar, concreting (M25), excavation back filling,as etcas per approved drawing	No.	2.00	
6	Erection alongwith structure , testing & commissioning of 33 kV , 630 Amp DBCR Isolator without earth switch	No.	2.00	
7	Foundation of 33 kV, 630 Amp DBCR Isolator <u>with earth switch</u> including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	1.00	
8	Erection alongwith structure , testing & commissioning of 33 kV , 630 Amp DBCR Isolator with earth switch	No.	1.00	
9	Foundation of 33kV CT including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc (one combine foundation for three CTs) as per approved drawing.	No.	2.00	
10	Installation of 33 kV, 1 phase Current Transformer including testing & commissioning	No.	6.00	
11	Foundation for 30 kV, 1 phase, 10 KA porcelain LA s per approved drawing (One combined foundation for 3 LA) for transformer including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc	No.	1.00	
12	Erection alongwith structure 30 kV, 1 phase, 10 KA porcelain LA including testing & commissioning	No.	3.00	
13	Installation of 30 kV, 1 phase, 10 KA porcelain LA on line gantry including testing & commissioning for 33 kV line	No.	3.00	
14	Foundation for [33/Sqrt(3)] kV/[110 /sqrt(3)] Volts, 1 phase PT as per approved drawing (One combined foundation for 3 PTs) including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc	No.	2.00	
15	Erection alongwith structure [33/Sqrt(3)] kV/[110 /sqrt(3)] Volts, 1 phase PT including testing & commissioning	No.	6.00	
16	Foundation for 33 kV post insulator including shuttering, Reinforcement bar, concreting (M25), excavation, back filling, as etc as per approved drawing	No.	3.00	

17	Erection alongwith structure 33 kV post insulators along with all fittings and accessories	No.	3.00	
	Erection, testing & commissioning of 100 kVA, 33/0.400 kV, 3 ph, 50 Hz, ONAN, Outdoor Station Transformer on double pole steel tubular pole including PCC (1:2:4) foundation with for pole, erection poles and all steel fabricated structures, installation of transformer and all accessories viz AB switch, DO fuse, LA etc complete in all respect	Set	1.00	
	Foundation of <b>bus gantry</b> tower including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	4.00	

20	Erection of <b>33 kV bus gantry</b> (consisting of 2 towers & 1 beam) as per approved drawing. This also includes the erection of one spike per gantry for lightning protection and its earthing	No.	2.00		
21	Foundation of <b>line gantry</b> tower including shuttering, Reinforcement bar, concreting (M25), excavation back filling, as etc as per approved drawing	No.	2.00		
22	Erection of 33 <b>kV line gantry</b> (consisting of 2 towers & 1 beam) as per approved drawing. This also includes the erection of one spike per gantry for lightning protection and its earthing	No.	1.00		
23	Stringing of 33 kV Bus bar, Line bay & transformer bay, as required, including all droppers, jumpers and inter connection with all outdoor equipments using ACSR dog conductor & insulator with hardware, clamps, connector etc complete in all respect	Meter	50.00		
24	Earthing and grounding conductor as per approved Electrical Layout for Substation using 100 sq mm stranded bare copper conductor for main grid and raisers along with necessary lugs as per TS	Meter	250.00		
25	Earthing using 16mm diameter and 1.5 meter long (min.) copper clad steel and other accessories complete as per TS to be buried below ground and to be connected with earthmat (untreated)	Set	10.00		
26	Earthing - using 40 mm dia 3000 mm long pipe earth electrodes with test links, RCC pits, CI cover hinged to CI frame, Charcoal, Salt (Alternatively Calcium Bentonite clay & black soil as per TS) and other accessories required for connection with earth mat (including supply of all materials required for treated earth pit except supply items like 40 mm dia GI pipe with fixing arrangement)	Set	25.00		
27	Drilling of hole in all kinds of soil/boulder/rock upto 50 mtr depth below ground level at 4 locations for installation of 40 mm dia MS rod using any suitable method as per IS standard. This includes supply of all materials (excluding 40 mm dia MS rod), equipments, labours, tools etc required for boring and protecting the soil from falling back into the pit during the process all complete as per technical specification. This includes installation of 40 mm dia rod in the pit and back filling the same with soil free from foreign material.	Meter	200.00		
28	Mobilisation /transportation charges of plant & machinery,tools & tackles,men & materials etc. for drilling of holes	LS	1.00		
29	Earthing - using 20 mm dia, 3000 mm long GI Rod as earth electrodes and other accessories etc. (Untreated) to be buried below ground and other accessories required for connection with earth mat (including supply of all materials required for untreated earth pit except supply items like 20 mm dia GI rod with fixing arrangement)	Set	30.00		
30	Laying of 11 kV HT, XLPE insulated , copper Cable in ground including termination in cable box on 11kv side of transformer & DP structure of 11 kV out-going feeders and indoor 11kv VCB panel - 3 Core x 120 mm2	Meter	420.00		
31	Laying of 33 kV HT, XLPE insulated , copper Cable in ground inclduing termination - 1 Core x 185 mm2	Meter	3000.00		
			1	1	

32	Erection of double pole structure using steel tubular pole including concrete foundation for pole, erection of poles and all steel fabricated structures along with all accessories, viz LA, AB switch etc complete in all respect for 11kV outgoing feeder.	No.	4.00	
33	Laying of 1.1 KV grade PVC insulated, armored 3.5cx50 mm2 Aluminum cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	75.00	
34	Laying of 1.1 KV grade PVC insulated, armored 4C x 16 mm2 Aluminum cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	100.00	
35	Laying of 1.1 KV grade PVC insulated, armored <b>2C x 10 mm2 copper cable</b> including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	40.00	

Laying of 1.1 KV grade PVC insulated, armored 2C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	140.00		
Laying of 1.1 KV grade PVC insulated, armored 5C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	480.00		
Laying of 1.1 KV grade PVC insulated, armored 10C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	240.00		
Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.	Meter	65.00		
Installation (including foundation, as per approved drawing, alongwith supply of all foundation material), testing & commissioning of 33 kV C&R panel for Power trf.	No.	1.00		
Installation (including foundation, as per approved drawing, alongwith supply of all foundation material), testing & commissioning of 33 kV C&R panel for 33 kV line	No.	1.00		
Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB <b>Incoming Feeder Panels</b> as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)	No.	1.00		
Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB <b>Bus Coupler Panels (alongwith Trunking panel, if required)</b> as per approved drawing. This includes all inter-panel connections (all material except cable required for this purpose will be included in this item.)	No.	0.00		
Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB <b>Out Going Feeder Panels</b> as per approved drawing. This includes all inter-panel connections (all material except cable required for this purpose will be included in this item.)	No.	4.00		
Installation, testing & commissioning of 110 V, 240AH, Lead Acid type <b>Battery Set a</b> longwith supply & installation of accessories complete as per TS.	Set	1.00		
Installation, testing & commissioning of 110V, Float-Cum-Boost Battery Charger & in-built DCDB alongwith supply & installation of all accessories to complete the DC power system ( with 110V, 240AH Battery) as per TS.	No.	1.00		
	installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 5C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 10C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Installation (including foundation, as per approved drawing, alongwith supply of all foundation material), testing & commissioning of 33 kV C&R panel for 3kV line  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB Incoming Feeder Panels as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB Bus Coupler Panels (alongwith Trunking panel, if required) as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning of 11 kV, 1250 Amp C&R Cum VCB Bus Coupler Panels (alongwith Trunking panel, if required) as per approved drawing. This includes all interpanel connections (all m	installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 5C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 10C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Installation (including foundation, as per approved drawing, alongwith supply of all foundation material), testing & No. commissioning of 33 kV C&R panel for Power trf.  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. commissioning of 11 kV, 1250 Amp C&R Cum VCB Incoming Feeder Panels as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. commissioning of 11 kV, 1250 Amp C&R Cum VCB Bus Coupler Panels (alongwith Trunking panel, if required) as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)  Installation, (testing & commis	installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 5C x 2.5 mm2 copper cable including its termination along with supply & Installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 10C x 2.5 mm2 copper cable including its termination along with supply & Meter installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & Meter installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & Meter installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 1.00 commissioning of 33 kV C&R panel for 73 kV line  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 1.00 commissioning of 11 kV, 1250 Amp C&R Cum VCB Incoming Feeder Panels as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 0.00 commissioning of 11 kV, 1250 Amp C&R Cum VCB Bus Coupler Panels (alongwith Trunking panel, if required) as per approved drawing, This includes all interpanel connections (all material except cable required for this purpose will be included in this item.	Installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 5C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 10C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Laying of 1.1 KV grade PVC insulated, armored 12C x 2.5 mm2 copper cable including its termination along with supply & installation of all accessories like double compression type cable glands, ferules, lugging etc. as per approved cable schedule.  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 1.00 commissioning of 33 kV C&R panel for Power trf.  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 1.00 commissioning of 11 kV, 1250 Amp C&R Cum VCB Incoming Feeder Panels as per approved drawing. This includes all interpanel connections (all material except cable required for this purpose will be included in this item.)  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 0.00  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 0.00  Installation (including foundation, as per approved drawing, along with supply of all foundation material), testing & No. 0.00  Installation (

47	Installation of (floor/wall mounted including supply of all material required for installation), testing & commissioning of 400 Volts AC Distribution board/panel alongwith supply & installation of all accessories to complete auxiliary AC power supply system as per TS.	No.	1.00	
	Installation of (floor/wall mounted including supply of all material required for installation), testing & commissioning of 110  Volts DC Distribution board/panel alongwith supply & installation of all accessories to complete auxiliary DC power supply system as per TS.	No.	1.00	
49	Installation of Bay Marshalling Kiosk (including foundation, as per approved drawing, along with supply of all foundation material), testing & commissioning complete with cabling as per TS	No.	1.00	
50	Installation of all fittings & fixtures as per approved layout complete with cabling, switch boards etc <b>for switchyard Lighting System</b> , main-gate & substation boundary as per TS	Set	1.00	
51	Installation of all fittings & fixtures as per approved layout complete with cabling, switch boards etc for <b>control room building lightng</b> as per TS	Set	1.00	
52	Soil Investigation & Contour Survey of Substation area (New Sub-station)	Per S/S	1.00	

53	Earth work in PSS site with ordinary soil (vide classification of soil item - A) obtained from borrow pits free from logs, stumps, roots, rubbish or any other ingredients likely to deteriorate or affect the stability of the site surface including breaking the clods maximum to 60 mm. cube, placing the earth in layers not exceeding 225 mm in loose thickness, rough dressing including cost of cutting and removing shrubs, roots falling in borrow area all complete as per approved design, as per technical specification. (Mode of Measurement: Sectional measurement after required compaction.)	Cu. Meter	100.00	
54	Earthwork in excavation and filling in PSS site, all types of soil in open areas/ nallas/ channels, to the required slopes, shapes, levels, elevations and profile, including trimming of bottom and slopes of excavation, bailing out rain (dewatering), pumping, removal of slush, preparing embankments/ marginal banks, loosening, dressing, spreading material in layers not exceeding 200mm, as per directions of Engineer-in-charge, water flooding, compacting to achieve 95 percent consolidation at optimum moisture content, finishing etc. all complete, for all leads within the leveling boundary and all lifts, with all labour, material, tools, tackles and equipment, safeguards and incidentals, as necessary, as per drawings, specification and directions of Engineer-in-Charge.	Cu. Meter	5000.00	
55	Earthwork in excavation in PSS site, all types of soil in open areas/ nallas/ channels, to the required slopes, shapes, levels, elevations and profile, and disposal of excess excavated earth upto a lead of 2.0 KM or as directed by Engineer-in-charge. All kinds of soil	Cu. Meter	100.00	
56	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete including construction of 600 mm high and 230 mm wide cement concrete (1:3:6) (1 cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) toe wall at the lowest portion of stone pitching area etc. completed as per the instruction of Engineer-In-Charge.	Sq. Meter	200.00	
57	Gravel filling in switchyard area excluding road, trenches etc. Including Antiweed Treatment after neatly levelled and compacted the ground (All completed as per TS)	Cu. Meter	67.50	
58	Construction of Boundary Wall (including supply of all material) with fixing of MS angle & Barbed Wire fencing all along the boundary wall including supply and fixing of main gate - complete with painting etc all as per approved drawing & TS (Measurement for this purpose will include length of gate along boundary wall)	Meter	300.00	
59	Construction of retaining wall with random rubble masonary in cement sand mortar (1:6) including levelling up with cement concrete (1:6:12), providing weep holes of PVC pipes (150 mm dia) with necessary filter material at the mouth of weep holes, 50 mm thick cement concrete (1:2:4) copping on the top of wall, 100 mm thick PCC (1:4:8) below RR masonary work, excavation of foundation for all lifts up to 6.00 Mtr. above lower level including pointing on exposed portion of wall. Item of excavation, PCC (1:2:4 & 1:4:8) shall be measured and paid seperately under respective items of BPS	Cu. Meter	2000.00	

60	Supplying-providing stone work packed in steel wire crates as per approved design and drawing including all lead and lifts along boundary wall and other places as required (work shall be carried out as per TS)	Cu. Meter	100.00	
61	Erection of security fencing & switchyard gate and construction of toe wall as per approved drawings & TS. Supply of all the material required for this work is included in this item.	Meter	55.00	
62	Construction of Drainage System in the Substation premises all complete as approved Drawing and Specification. Cross section of drain should be at least 450 X 650 MM.	Meter	350.00	
63	Construction of 3.75 meter wide RCC Approach Road within substation boundary (including supply of all material) all complete as per approved drawing & TS including cement concrete kerb stone along two side of road.	Meter	100.00	
64	Construction of 4 meter wide RCC Access Road outside substation boundary (including supply of all material) all complete as per approved drawing & TS including cement concrete kerb stone along two side of road.	Meter	150.00	
65	Construction (including supply of all material) of Cable Trench alongwith pre-cast RCC Trench Cover, cast in situ RCC base and wall, Brick Work wherever required all complete as approved Drawing & TS outside the control room building <b>0.50 Meter wide Trench (650 mm deep)</b>	Meter	50.00	
66	Building Works of Control Building, Office Building and Staff Quarter			
i	Excavation in all types of soil and rock including backfilling disposal etc. for all leads and lifts	Cu.M	3000.00	
ii	One layer brick soiling	Cu.M	100.00	
iii	Providing and laying of Plain Cement Concrete (PCC) (1:4:8) (1 cement: 4 Coarse Sand : 8 stone aggregate of 40 mm nominal size) including centering and shuttering.	Cu.M	150.00	
iv	Providing and laying of Plain Cement Concrete (PCC) (1:2:4) (1 cement: 2 Coarse Sand :4 stone aggregate of 20 mm nominal size) including centering and shuttering.	Cu.M	53.00	
V.	Providing and laying of Reinforced Cement Concrete Design Mix M25 including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	Cu.M	1323.75	
vi.	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.	MT	123.75	
67	All civil works including brick work, internal finish, water supply and sanitation work and all Electrical works (for control room, office building and staff quarter) for following buildings as per technical specification and approved drawings but excluding external finish, excavation, PCC, RCC and reinforcement steel (Fe-500), which shall be measured and paid seperately under respective items of BPS:			
	i) Office building	Sq.Meter	165.00	

ii) Staff quarter		

	Ground Floor	Sq.Meter	276.00	
	First Floor	Sq.Meter	276.00	
	iii) Control Room Building excluding electrification work.	Sq.Meter	162.00	
68	External finish as per specification for following buildings:			
	i) Office building	Sq.Meter	165.00	
	ii) Staff quarter	Sq.Meter	552.00	
	iii) Control Room Building	Sq.Meter	162.00	
69	Guard Room with toilet and pantry all complete as per drawing.	Sq ft	120.00	
70	Sinking of Tubewell and installation of motor operated submersible pump of suitable capacity and reputed make (All items to be supplied by the contractor. Make of motor/pump to be approved by NEA) Work shall be executed as per TS.	No.	1.00	
1	Erection of double pole structure using steel tubular pole including PCC (1:2:4) foundation for pole, erection poles and all steel fabricated structures along with, LA, HG Fuse, AB switch, installation of requisite fabricated steel items, disc insulators, pipe type treated earthing, making all connections/ jumpers etc to make the swicthing station functionally ready.		7.00	
2	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	14.00	
	Sub-Total (G)			
Н	New 11kV SWITCHING STATION AT DHUNCHE			
1	Erection of double pole structure using steel tubular pole including PCC (1:2:4) foundation for pole, erection poles and all steel fabricated structures along with, LA, HG Fuse, AB switch, installation of requisite fabricated steel items, disc insulators, pipe type treated earthing, making all connections/ jumpers etc to make the switching station functionally ready.		7.00	
2	Earthing of pole using 40 mm dia 3000 mm long pipe as earth electrodes in the pit treated with Charcoal & Salt (Alternatively Calcium Bentonite clay & black soil ) as per TS. This includes supply of all materials required for completion of job except supply of 40 mm dia GI pipe which is included in supply portion.	Set	14.00	
	Sub-Total (H)			
ı	STAFF QUARTER IN DHUNCHE			
1	Site Clearance and Preparation	LS	1	
2	Excavation in all types of soil and rock including disposal etc. for all leads and lifts	Cu Mtr	200	
3	Earthwork in filling with compaction	Cu Mtr	150	
4	One layer flat brick soiling	Cu Mtr	86.98	

5	Providing and laying of Plain Cement Concrete (PCC) (1:4:8) (1 cement: 4 Coarse Sand: 8 stone aggregate of 40 mm nominal	Cu Mtr	14.35	
	size) including centering and shuttering.			I

6	Providing and laying of Reinforced Cement Concrete Design Mix M25 including pre cast, shuttering, Grouting of pockets & underpinning but excluding steel reinforcement	Cu Mtr	114.25	
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	13,226.32	
8	All civil works including brick work, internal finish, water supply and sanitation work and Electrical works as per technical specification and approved drawings but excluding PCC, RCC and reinforcement steel			
i.	Ground Floor	Sq. Mtr	92.903	
ii.	First Floor	Sq. Mtr	92.903	
iii.	Second Floor	Sq. Mtr	92.903	
9	External finish as per specification for following:			
i.	Ground Floor	Sq. Mtr	92.903	
ii.	First Floor	Sq. Mtr	92.903	
iii.	Second Floor	Sq. Mtr	92.903	
10	Construction of Boundary Wall (including supply of all material) with fixing of MS angle & Barbed Wire fencing all along the boundary wall including supply and fixing of main gate - complete with painting etc all as per approved drawing & TS (Measurement for this purpose will include length of gate along boundary wall)	Meter	200	
11	Guard Room with toilet and pantry all complete as per drawing.	Sq Ft	120	
12	Construction of retaining wall with random rubble masonary in cement sand mortar (1:6) including levelling up with cement concrete (1:6:12), providing weep holes of PVC pipes (150 mm dia) with necessary filter material at the mouth of weep holes, 50 mm thick cement concrete (1:2:4) copping on the top of wall, 100 mm thick PCC (1:4:8) below RR masonary work, excavation of foundation for all lifts up to 6.00 Mtr. above lower level including pointing on exposed portion of wall. Item of excavation, PCC (1:2:4 & 1:4:8) shall be measured and paid seperately under respective items of BPS	Cu Mtr	750	
	Sub-Total (I)			
	Total for Schedule - 4 (A+B+C+D+E+F+G+H+I)			
	Total for deficable - 4 (A.B.O.D.E.I. TOTITI)			

(Schedule of rates and prices)

Bidder's Name & Address:

## Training Charges for Training to be imparted abroad

1	2	3	4	5	6	7
SI. No.	Description	Country where training to be imparted	No. of Trainees	Training Duration in Days	Currency (As per ITB 19.1)	Total Training Charges
	Not Applicable					
	Total for Schedule 5a					

(Schedule of rates and prices)

Bidder's Name & Address:

Training Charges for Training to be imparted within Employer's Country

1	2	3	4	5	6
SI. No.	Description	No. of Trainees	Training Duration in Days	Currency (As per ITB 19.1)	Total Training Charges
	Not Ap	plicat	ole		
	Total for Schedule 5b				

(Schedule of rates and prices)

Bidder's Name & Address:

## **Maintenance Charges**

1	2	3	4	5	6	7 = 4 x 6	
SI. No.	Description	Unit	Qty	Currency (As per ITB 19.1)	Unit Charges	Total Charges	
	Not Applicable						
	Total for Schedule 5c						

## (GRAND SUMMARY)

Description	Total Price				
	in Foreign Currency	in Local Currency			
TOTAL SCHEDULE NO. 1					
Plant and Equipment including mandatory Spares to be supplied from abroad including Type Test Charges for Type Tests to be conducted abroad	0	Not Applicable			
TOTAL SCHEDULE NO. 2	<u>.</u>				
Plant and Equipment including mandatory Spares to be supplied from within Employer's Country including Type Test Charges for Type Tests to be conducted in Employer's Country					
TOTAL SCHEDULE NO. 3	•				
Local Transportation, Insurance and other incidental services (including port clearance etc.) applicable for supply of Plant & Equipment.	Not Applicable	0			
TOTAL SCHEDULE NO. 4	•				
Installation Charges		0			
TOTAL SCHEDULE NO. 5a					
Training Charges for Training to be imparted abroad	Not Applicable	Not Applicable			
TOTAL SCHEDULE NO. 5b	L				
Training Charges for Training to be imparted within Employer's Country	Not Applicable	Not Applicable			
TOTAL SCHEDULE NO. 5c					
Maintenance Charges	Not Applicable	Not Applicable			
TOTAL SCHEDULE 6a					
Break-up of Type Test Charges for Type Tests to be conducted abroad  [Total of this Schedule is included in Schedule-1 above]	Not Applicable	Not Applicable			
TOTAL SCHEDULE 6b					
Break-up of Type Test Charges for Type Tests to be conducted in Employer's Country [Total of this Schedule is included in Schedule-2 above]	Not Applicable	Not Applicable			
TOTAL SCHEDULE NO. 7					
Taxes and Duties not included in Bid Price					
GRAND TOTAL [1+2+3+/+5a+5h+5a]	0.00	0.00			
	TOTAL SCHEDULE NO. 1  Plant and Equipment including mandatory Spares to be supplied from abroad including Type Test Charges for Type Tests to be conducted abroad  TOTAL SCHEDULE NO. 2  Plant and Equipment including mandatory Spares to be supplied from within Employer's Country including Type Test Charges for Type Tests to be conducted in Employer's Country  TOTAL SCHEDULE NO. 3  Local Transportation, Insurance and other incidental services (including port clearance etc.) applicable for supply of Plant & Equipment.  TOTAL SCHEDULE NO. 4  Installation Charges  TOTAL SCHEDULE NO. 5a  Training Charges for Training to be imparted abroad  TOTAL SCHEDULE NO. 5b  Training Charges for Training to be imparted within Employer's Country  TOTAL SCHEDULE NO. 5c  Maintenance Charges  TOTAL SCHEDULE 6a  Break-up of Type Test Charges for Type Tests to be conducted abroad  [Total of this Schedule is included in Schedule-1 above]  TOTAL SCHEDULE 6b  Break-up of Type Test Charges for Type Tests to be conducted in Employer's Country  [Total of this Schedule is included in Schedule-2 above]  TOTAL SCHEDULE NO. 7	TOTAL SCHEDULE NO. 1  Plant and Equipment including mandatory Spares to be supplied from abroad including Type Test Charges for Type Tests to be conducted abroad  TOTAL SCHEDULE NO. 2  Plant and Equipment including mandatory Spares to be supplied from within Employer's Country including Type Test Charges for Type Tests to be conducted in Employer's Country including Type Test Charges for Type Tests to be conducted in Employer's Country  TOTAL SCHEDULE NO. 3  Local Transportation, Insurance and other incidental services (including port clearance etc.) applicable for supply of Plant & Equipment.  TOTAL SCHEDULE NO. 4  Installation Charges  TOTAL SCHEDULE NO. 5a  Training Charges for Training to be imparted abroad  TOTAL SCHEDULE NO. 5b  Training Charges for Training to be imparted within Employer's Not Applicable  TOTAL SCHEDULE NO. 5c  Maintenance Charges  Not Applicable  TOTAL SCHEDULE 6a  Break-up of Type Test Charges for Type Tests to be conducted abroad (Total of this Schedule is included in Schedule-1 above)  TOTAL SCHEDULE 6b  Break-up of Type Test Charges for Type Tests to be conducted in Employer's Country (Total of this Schedule is included in Schedule-2 above)  TOTAL SCHEDULE NO. 7  Taxes and Duties not included in Bid Price			

	GRAND TOTAL [1+2+3+4+3a+3b+3c]	
Date:		Signature:
Place:		Printed Name:
		Designation:
		Common Seal:

(Schedule of rates and prices)

Bidder's Name & Address:

## Break-up of Type Test Charges for Type Tests to be conducted abroad

1	2	3	4	5	6	7	8 = 5 x 7	
SI. No.	Description	Testing Location	Unit	Qty	Currency (As per ITB 19.1)	Unit Test Charges	Total Test Charges	
	Not Applicable							
	Total for Schedule 7a							

(Schedule of rates and prices)

Bidder's Name & Address:

Type Test Charges for Type Tests to be conducted in Employer's Country

1	2	3	4	5	6	7 = 4 x 6	
SI. No.	Description	Unit	Qty	Currency (As	Unit Test	Total Test Charges	
				per ITB 19.1)	Charges		
	Not Applicable						
	Total for Schedule 7b						

## (SUMMARY OF TAXES & DUTIES not included in bid price)

To:

**Bidder's Name** 

Bidder's Address:

	(indicate names of various Taxes and Duties in Employer's Country)  Total Duty, as applicable:		
2	(a) On Schedule 1 @ rate of on items nos		
	(indicate names of various Taxes and Duties in Employer's Country)		
	Total Duty, as applicable:  (a) On Schedule 1 @ rate of on items nos.  (b) On Schedule 2 @ rate of on items nos.		
3	(indicate names of various Taxes and Duties in Employer's Country)		
	Total Duty, as applicable:  (a) On Schedule 1 @ rate of on items nos		
	GRAND TOTAL [1+2+3]		
Specify o	currency in accordance with ITB Clause 19.1 and corresponding BDS clauses, Vi	ol.I of the Bidding Documents.	
ate:			
Place:			

		•						
			(Schedule o	of rates and prices)				
	Bidder's Name:					То:		
	Bidder's Address:							
dditionalSpar	e Parts and Test Equipment is	furnished below:						
Item No.	Name & Description of Parts	Name of Original Manufacturer	Part No.	Number of Units in each set	Total No. of Sets to be provided	Unit Price	Total Price	Remarks
ate:						Signature:		
ace:						Printed Name:		
						Designation:		
						Common Seal:		

# **Letter of Price Bid**

[Bidder's Letterhead]

Date: ....., 2019

ICB No.: ICB-REIP-REC- 2019-01

Invitation for Bid No.: ICB-REIP-REC- 2019-01

To: [... insert complete name of the employer ...]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to design, manufacture, test, deliver, install, pre-commission, and commission in conformity with the Bidding Document the following Plant and Services: [... insert narrative ...]
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is the sum of

amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]

The total bid price from the Grand Summary (Schedule No. 6 should be entered by the Bidder inside this box. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the bid.

- (d) The discounts offered and the methodology for their application are as follows: [. . . insert discounts and methodology for their application if any . . .]
- (e) Our Bid shall be valid for a period of [... insert bid validity period as specified in ITB 20.1 of the BDS...] days from the date fixed for the submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document.
- (g) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

1	_
4	-2

Name
In the capacity of
Signed
Duly authorized to sign the Bid for and on behalf of
Date

## **Price Schedules**

#### **PREAMBLE**

#### General

1	The Price Schedules	s are divided into se	enarate Schedules	as follows:
	TITO I TICO COLICACIO	, are arriaca irite co	parate corregates	ao ionomo.

Schedule 1	Plant and Equipment including mandatory Spares to be supplied from abroad
Schedule 2	Plant and Equipment including mandatory Spares to be supplied from within Employer's Country
Schedule 3	Local Transportation, Insurance and other incidental services (including port clearance etc.) applicable for supply of Plant & Equipment.
Schedule 4	Installation Services.
Schedule 5a	Training Charges for Training to be imparted abroad – Not Applicable
Schedule 5b	Training Charges for Training to be imparted within Employer's Country – <b>Not Applicable</b>
Schedule 5c	Maintenance Charges- Not Applicable
Schedule 6	Grand Summary (Schedule Nos.1 to 4)
Schedule 7a	Break-up of Type Test Charges for Type Tests to be conducted abroad – <b>Not Applicable</b>
Schedule 7b	Break-up Type Test Charges for Type Tests to be conducted in Employer's Country – Not Applicable
Schedule 8	Taxes and Duties – Not Applicable
Schedule 9	Optional Spare Parts – Not Applicable

- 2. The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
- 3. If bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their bid.

#### **Pricing**

4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder.

As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.

- 5. Bid prices shall be quoted in the manner indicated and, in the currencies, specified in the Instructions to Bidders in the Bidding Document.
  - For each item, bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.
  - Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Employer's Requirements) or elsewhere in the Bidding Document.
- 6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
- 7. When requested by the Employer for the purposes of making payments or part payments, valuing variations or evaluating claims, or for such other purposes as the Employer may reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.

## **Schedules of Rates and Prices**

Schedule 1	Plant and Equipment including mandatory Spares to be supplied from abroad
Schedule 2	Plant and Equipment including mandatory Spares to be supplied from within Employer's Country
Schedule 3	Local Transportation, Insurance and other incidental services (including port clearance etc.) applicable for supply of Plant & Equipment.
Schedule 4	Installation Services.
Schedule 5a	Training Charges for Training to be imparted abroad – Not Applicable
Schedule 5b	Training Charges for Training to be imparted within Employer's Country - <b>Not Applicable</b>
Schedule 5c	Maintenance Charges- Not Applicable
Schedule 6	Grand Summary (Schedule Nos.1 to 4)
Schedule 7a	Break-up of Type Test Charges for Type Tests to be conducted abroad – <b>Not Applicable</b>
Schedule 7b	Break-up Type Test Charges for Type Tests to be conducted in Employer's Country – Not Applicable
Schedule 8	Taxes and Duties – Not Applicable
Schedule 9	Optional Spare Parts – Not Applicable