

Tender for Operations and maintenance

Information

RFx number:	7000014642
Publication:	Public RFx
Version:	2
RFx Name:	AMC FOR S/S MAINT AT 400KV WARORA-2ND
Tender Subject:	ANNUAL MAINTENANCE CONTRACT (AMC) FOR EMERGENCY BREAKDOWN WORK & OTHER OUTAGE ORIENTED WORK AT
Bid Submission:	26.12.2019
Funded By:	
Tender Fee Inc. GST:	525.00 ₹
Estimated Cost:	1,000,000.00 ₹
Basis of Prices:	
Percent Based Bid:	Yes
EMD Cost:	10,000.00 ₹
Tech Bid Open:	26.12.2019 11:00:00
Price Bid Open:	26.12.2019 15:00:00
Contact Person:	EE-8554993188 & DYEE-8554993202

Additional Requested Information:

- a)#Average Annual financial turnover during the last 03 years, ending 31st March of the previous financial year, should be at least 50 % of the estimated cost. Submit ONLY turnover certificate of C.A. (essential).
- b)#Experience certificates of having done the “Annual Maintenance Contract (AMC) for Emergency breakdown work & Other Outage oriented work at 400/220KV Sub-Station” during last 05 years ending last day of month previous to the one in which applications ar
- c)#Proof of Goods & Service Tax Registration (GSTIN Registration) if applicable.
- d)#Copy of PAN card.
- e)#Proof of Registration of Firm under Bombay shop & Establishment Act.
- f)#Copy of SSI/NSIC Certificate with Memorandum (if applicable).The Registration Certificate as submitted by Micro and Small Enterprises should be VALID on the date of submission of bid and the validity of the same should be certified by the Chartered Acc
- g)#Income Tax Returns of last any 03 years (2018-19/2016-17/2017-18).
- h)#Valid solvency certificate equivalent to an amount not less than 25 % of the estimated cost of works from scheduled / nationalized bank.
- i)#Undertaking of contractor as per Annexure A & Annexure I should be submitted.
- j)#Proof of Registration under Provident fund Act with challan paid for any of the last 06 months (If applicable)
- k)#Valid insurance of Labour / ESIC if applicable.
- l)#Detail list of Staff & T&P for work execution.
- m)#Valid Supervisory Electrical Certificate.

Attachments:

- TENDER DETAIL - E-TENDER
- AMENDMENT - EXTENSION TO E-TENDER

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RFX Details:

(*Amount in ₹)

Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1	Outline	998736	AMC FOR OUTAGE ORIENTED WORK FOR S/S	1.000 AU	--	577031.41
1.AA	Service 50015703	998736	Erection of 220kV CB in ER/BD Erection of Circuit breaker on casted foundation with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 Set	37428.48	37428.48
1.AB	Service 50015704	998736	Erection of 400kV CB in ER/BD Erection of Circuit breaker on casted foundation with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 Set	53036.29	53036.29

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.AC	Service 50000172	998736	Erection of 220kV CB Erection of Circuit breaker with required modification of existing foundation as per drawings with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 EA	46786.49	46786.49
1.AD	Service 50000173	998736	Erection of 400kV CB Erection of Circuit breaker with required modification of existing foundation as per drawings with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 EA	66296.26	66296.26
1.AE	Service 50015709	998736	Dismantling of 220kV CB in ER/BD Dismantling of Circuit Breaker with removal of SF6 / Oil and removal of pole, mechanism, wiring and cabling and piping, removal of support structure etc. complete for#	1.000 Set	29942.78	29942.78
1.AF	Service 50015720	998736	Dismantling of 400kV CB in ER/BD Dismantling of Circuit Breaker with removal of SF6 / Oil and removal of pole, mechanism, wiring and cabling and piping, removal of support structure etc. complete for#	1.000 Set	42429.27	42429.27

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.AG	Service 50015722	998736	Erection of 220kV CT/PT in ER/BD Erection of Current Transformer on provided support structure WITH NECESSARY MODIFICATION with connecting the terminal connectors and jumpers on both sides with required connection with available cables to the terminal box for#	1.000 EA	4491.89	4491.89
1.AH	Service 50015723	998736	Erection of 400kV CT/PT in ER/BD Erection of Current Transformer on provided support structure WITH NECESSARY MODIFICATION with connecting the terminal connectors and jumpers on both sides with required connection with available cables to the terminal box for#	1.000 EA	10254.25	10254.25
1.AJ	Service 50015725	998736	Dismantling of 220kV CT/PT in ER/BD Dismantling of Current transformer from support structure with removal of terminal connectors and jumpers and cabling connection from the terminal box for#	1.000 EA	3593.28	3593.28
1.AK	Service 50015726	998736	Dismantling of 400kV CT/PT in ER/BD Dismantling of Current transformer from support structure with removal of terminal connectors and jumpers and cabling connection from the terminal box for#	1.000 EA	8204.35	8204.35
1.AL	Service 50015727	998736	Dismantling of 132kV LA in ER/BD Dismantling of LA from the support structure with removal of jumper from terminal connector, and stacks with stacking with removal of earthing connection and LA counter etc. complete for#	1.000 EA	2395.52	2395.52
1.AM	Service 50015728	998736	Dismantling of 198kV LA in ER/BD Dismantling of LA from the support structure with removal of jumper from terminal connector, and stacks with stacking with removal of earthing connection and LA counter etc. complete for#	1.000 EA	3593.28	3593.28

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.AN	Service 50015729	998736	Dismantling of 398kV LA in ER/BD Dismantling of LA from the support structure with removal of jumper from terminal connector, and stacks with stacking with removal of earthing connection and LA counter etc. complete for#	1.000 EA	4812.49	4812.49
1.AP	Service 50015730	998736	Erection of 132kV LA in ER/BD Erection of LA on provided support structure with minor modification with stacks, insulator base, with leveling, connecting terminal connector and jumper connection with connecting the counter, with earthing connection etc. complete for#	1.000 EA	2993.80	2993.80
1.AQ	Service 50015731	998736	Erection of 198kV LA in ER/BD Erection of LA on provided support structure with minor modification with stacks, insulator base, with leveling, connecting terminal connector and jumper connection with connecting the counter, with earthing connection etc. complete for#	1.000 EA	4491.89	4491.89
1.AR	Service 50015732	998736	Erection of 398kV LA in ER/BD Erection of LA on provided support structure with minor modification with stacks, insulator base, with leveling, connecting terminal connector and jumper connection with connecting the counter, with earthing connection etc. complete for#	1.000 EA	6015.01	6015.01
1.AS	Service 50015749	998736	Dismantling of 220kV WT(wt Insul.) ER/BD Dismantling of WT (PEDSTAL TYPE) with support structure removal of jumpers at both the ends, removal of support insulators etc. For#	1.000 EA	5389.32	5389.32
1.AT	Service 50015750	998736	Dismantling of 400kV WT(wt Insul.) ER/BD Dismantling of WT (PEDSTAL TYPE) with support structure removal of jumpers at both the ends, removal of support insulators etc. For#	1.000 EA	11409.10	11409.10
1.AU	Service 50015752	998736	Dismantling of 220kV WT(w/o Insul.)ER/BD Dismantling of WT only PEDSTAL TYPE without support structure with removal of jumpers at both the ends etc. For#	1.000 EA	3773.24	3773.24

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.AV	Service 50015753	998736	Dismantling of 400kV WT(w/o Insul.)ER/BD Dismantling of WT only PEDSTAL TYPE without support structure with removal of jumpers at both the ends etc. For#	1.000 EA	9336.56	9336.56
1.AW	Service 50015755	998736	Erection of 220kV WT(wt Insul.) ER/BD Erection of WT PEDSTAL TYPE with support insulators, leveling, erection of WT and connecting the Jumpers at both the ends with terminal clamps provided for#	1.000 EA	5988.80	5988.80
1.AX	Service 50015756	998736	Erection of 400kV WT(with Insul.) ER/BD Erection of WT PEDSTAL TYPE with support insulators, leveling, erection of WT and connecting the Jumpers at both the ends with terminal clamps provided for#	1.000 EA	12677.18	12677.18
1.AY	Service 50015758	998736	Erection of 220kV WT(w/o Insul.) ER/BD Erection of WT only PEDSTAL TYPE without support insulators, connecting the Jumpers at both the ends with terminal clamps. For#	1.000 EA	4191.56	4191.56
1.AZ	Service 50015759	998736	Erection of 400kV WT(w/o Insul.) ER/BD Erection of WT only PEDSTAL TYPE without support insulators, connecting the Jumpers at both the ends with terminal clamps. For#	1.000 EA	10373.43	10373.43
1.BA	Service 50019027	998736	Dismantling of 420kV CVT in ER/BD Dismantling of 420kV CVT from support structure with removal of cabling / termination from MB and stacking the same at required place as directed#	1.000 EA	10502.14	10502.14
1.BB	Service 50019026	998736	Erection of 420kV CVT in ER/BD Erection of 420kV CVT on provided support structure with jumper connection with suitable terminal clamp provided with connecting the required cables from MB and termination complete#	1.000 EA	13127.68	13127.68
1.BC	Service 50015760	998736	Repl. Single Tension String 220kV ER/BD Replacement of TENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	19566.97	19566.97

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.BD	Service 50015762	995469	Repl. Twin Tension String ER/BD Replacement of TENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	26089.69	26089.69
1.BE	Service 50015763	998519	Repl. Qaudraple Tension String ER/BD Replacement of TENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	45655.47	45655.47
1.BF	Service 50015764	998736	Repl. Single Suspension String ER/BD Replacement of SUSPENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	4097.41	4097.41
1.BG	Service 50015765	998736	Repl. Twin Suspension String ER/BD Replacement of SUSPENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	5336.88	5336.88
1.BH	Service 50015766	998736	Repl. Qaudraple Suspension string ER/BD Replacement of SUSPENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	8004.13	8004.13
1.BJ	Service 50015808	995461	Dismantling of 220kV BPI in ER/BD Dismantling of BPI from the support structure with removal of jumper and terminal clamp complete for#	1.000 EA	1437.31	1437.31
1.BK	Service 50015809	995461	Dismantling of 400kV BPI in ER/BD Dismantling of BPI from the support structure with removal of jumper and terminal clamp complete for#	1.000 EA	1842.52	1842.52
1.BL	Service 50015811	998736	Erection of 245kV BPI in ER/BD Erection of BPI in stacks on provided support structure with leveling with fixing of terminal clamp with connecting the jumper for#	1.000 EA	1796.04	1796.04

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1.BM	Service 50015812	998736	Erection of 420kV BPI in ER/BD Erection of BPI in stacks on provided support structure with leveling with fixing of terminal clamp with connecting the jumper for#	1.000 EA	2303.75	2303.75
1.BN	Service 50015814	998736	Dismantling of 220kV Couplg Cap. (ER/BD) Dismantling of CC from the support structure with removal of jumper and terminal clamps, removal of earthing complete for#	1.000 EA	3593.28	3593.28
1.BP	Service 50018538	998719	Erection 220kV Coupling Capacitor ER/BD Erection of CC on provided support structure with connecting the terminal clamp and jumper connection with fixing of LMU unit with connection of HF cable, with connection of earthing complete for#	1.000 EA	4491.89	4491.89
1.BQ	Service 50015816	996912	Repl. Jumper Connection/single in ER/BD Replacement of jumper connection with its removal with spacers from the equipment terminals with removal of connector and its re-erection with provided terminal clamps at both ends#	1.000 EA	605.43	605.43
1.BR	Service 50015817	996912	Repl. Jumper Connection/Twin in ER/BD Replacement of jumper connection with its removal with spacers from the equipment terminals with removal of connector and its re-erection with provided terminal clamps at both ends#	1.000 EA	1210.87	1210.87
1.BS	Service 50015818	996912	Repl. Jumper Connection/Quad in ER/BD Replacement of jumper connection with its removal with spacers from the equipment terminals with removal of connector and its re-erection with provided terminal clamps at both ends#	1.000 EA	2422.93	2422.93
1.BT	Service 50015819	996912	Repl. Jumper Connection/single Bus ER/BD Replacement of jumper connection with spacers from the MAIN BUS from Isolators and its re-erection with given terminal clamps at both ends#	1.000 EA	741.30	741.30
1.BU	Service 50015820	996912	Repl. jumper connection/TWIN Bus ER/BD Replacement of jumper connection with spacers from the MAIN BUS from Isolators and its re-erection with given terminal clamps at both ends#	1.000 EA	1333.62	1333.62

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.BV	Service 50015821	996912	Repl. jumper connection/Quad Bus ER/BD Replacement of jumper connection with spacers from the MAIN BUS from Isolators and its re-erection with given terminal clamps at both ends#	1.000 EA	2668.44	2668.44
1.BW	Service 50015822	996912	Repl. Jumper Connect/Sing Stud Bus ER/BD Replacement of jumper connection (REMOVAL & REFITTING) with spacers from STUB BUS with its removal from Suspension insulator string hardware etc. from both ends and re-erection with provided terminal clamps at both ends#	1.000 EA	889.08	889.08
1.BX	Service 50015823	996912	Repl. Jumper Connect/Twin Stud Bus ER/BD Replacement of jumper connection (REMOVAL & REFITTING) with spacers from STUB BUS with its removal from Suspension insulator string hardware etc. from both ends and re-erection with provided terminal clamps at both ends#	1.000 EA	1482.60	1482.60
1.BY	Service 50015824	996912	Repl. Jumper Connect/Quad Stud Bus ER/BD Replacement of jumper connection (REMOVAL & REFITTING) with spacers from STUB BUS with its removal from Suspension insulator string hardware etc. from both ends and re-erection with provided terminal clamps at both ends#	1.000 EA	2965.20	2965.20
1.BZ	Service 50015825	996912	Repl. Terminal Clamp Single in ER/BD Replacement of Terminal clamp with new one at equipment terminal with removal of jumper from both ends with crimping and refitting#	1.000 EA	605.43	605.43
1.CA	Service 50015826	996912	Repl. Terminal Clamp Twin in ER/BD Replacement of Terminal clamp with new one at equipment terminal with removal of jumper from both ends with crimping and refitting#	1.000 EA	1210.87	1210.87
1.CB	Service 50015827	996912	Repl. Terminal Clamp Quad in ER/BD Replacement of Terminal clamp with new one at equipment terminal with removal of jumper from both ends with crimping and refitting#	1.000 EA	2422.93	2422.93

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.CC	Service 50010134	998736	Dismantling&Erection of IPS tube Replacement of IPS tube from the equipment terminals in 400kV switchyard with removal of terminal connectors at both ends and its re-erection with provided terminal connectors#	1.000 EA	458.84	458.84
1.CD	Service 50008567	998736	Fixing 4" Al IPS Tube Fixing of IPS tube on Post Insulators (400kV or 33kV - tertiary) with provided clamp as directed#	1.000 EA	255.05	255.05
1.CE	Service 50014788	998736	Fabr.&Cutting for 4" IPS Tube Fabrication of IPS Jointing Sleeves as per drawings#	1.000 EA	1779.36	1779.36
1.CF	Service 50006570	998736	Argon Welding of IPS Tube Per Joint Welding of IPS tubes joints as per site requirement with argon welding as directed to make the joint smooth#	1.000 EA	5929.21	5929.21
1.CG	Service 50018234	998736	Dismantling of IPS Tube wt Str Dismantling of 4" IPS tube including supply of all labour T&P etc. complete.#	1.000 RMT	203.80	203.80
1.CH	Service 50015697	995469	Crimping of Single T Connector in ER/BD Crimping works ON CONDUCTOR with suitable size capacity crimping machine (overhead) with suitable size DIES for MAIN BUS jumpers T-clamps#	1.000 EA	593.52	593.52
1.CJ	Service 50015696	995469	Crimping of Twin T Connector in ER/BD Crimping works ON CONDUCTOR with suitable size capacity crimping machine (overhead) with suitable size DIES for MAIN BUS jumpers T-clamps#	1.000 EA	1185.84	1185.84
1.CK	Service 50015695	995469	Crimping of Quad T Connector in ER/BD Crimping works ON CONDUCTOR with suitable size capacity crimping machine (overhead) with suitable size DIES for MAIN BUS jumpers T-clamps#	1.000 EA	1779.36	1779.36
1.CL	Service 50015691	995469	Crimping of 132/220kV Jumper Cone ER/BD Crimping works FOR CONDUCTOR with suitable size capacity crimping machine with suitable size DIES for JUMPER CONE at ground#	1.000 EA	474.34	474.34

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
1.CM	Service 50015693	995469	Crimping of 400kV Jumper Cone ER/BD Crimping works FOR CONDUCTOR with suitable size capacity crimping machine with suitable size DIES for JUMPER CONE at ground#	1.000 EA	948.67	948.67
1.CN	Service 50015692	995469	Crimping of 132/220kV Repair Sleeves ER Crimping works ON CONDUCTOR FOR REPAIR SLEEVES (Overhead) with suitable size capacity crimping machine with suitable size DIES#	1.000 EA	2371.68	2371.68
1.CP	Service 50015694	995469	Crimping of 400kV Repair Sleeves ER/BD Crimping works ON CONDUCTOR FOR REPAIR SLEEVES (Overhead) with suitable size capacity crimping machine with suitable size DIES#	1.000 EA	4743.36	4743.36
2	Outline	998736	AMC FOR EMERGENCY ORIENTED WORK FOR S/S	1.000 AU	--	699286.27
2.AA	Service 50015703	998736	Erection of 220kV CB in ER/BD Erection of Circuit breaker on casted foundation with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 Set	44915.37	44915.37
2.AB	Service 50015704	998736	Erection of 400kV CB in ER/BD Erection of Circuit breaker on casted foundation with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 Set	63643.31	63643.31

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2.AC	Service 50000172	998736	Erection of 220kV CB Erection of Circuit breaker with required modification of existing foundation as per drawings with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 EA	56143.31	56143.31
2.AD	Service 50000173	998736	Erection of 400kV CB Erection of Circuit breaker with required modification of existing foundation as per drawings with erection of support structure its leveling, mechanism, pole, required piping cabling and termination up to MB, earthing of CB poles and structures , MB etc. with filling of SF6 if required to specified pressure, fixing of related accessories etc. complete as directed by the Mfg. manual and assisting testing and attending the problems if any up to commissioning for (SF6 shall be supplied by MSETCL.)#	1.000 EA	79555.03	79555.03
2.AE	Service 50015709	998736	Dismantling of 220kV CB in ER/BD Dismantling of Circuit Breaker with removal of SF6 / Oil and removal of pole, mechanism, wiring and cabling and piping, removal of support structure etc. complete for#	1.000 Set	35931.58	35931.58
2.AF	Service 50015720	998736	Dismantling of 400kV CB in ER/BD Dismantling of Circuit Breaker with removal of SF6 / Oil and removal of pole, mechanism, wiring and cabling and piping, removal of support structure etc. complete for#	1.000 Set	50914.89	50914.89

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2.AG	Service 50015722	998736	Erection of 220kV CT/PT in ER/BD Erection of Current Transformer on provided support structure WITH NECESSARY MODIFICATION with connecting the terminal connectors and jumpers on both sides with required connection with available cables to the terminal box for#	1.000 EA	5389.32	5389.32
2.AH	Service 50015723	998736	Erection of 400kV CT/PT in ER/BD Erection of Current Transformer on provided support structure WITH NECESSARY MODIFICATION with connecting the terminal connectors and jumpers on both sides with required connection with available cables to the terminal box for#	1.000 EA	12305.34	12305.34
2.AJ	Service 50015725	998736	Dismantling of 220kV CT/PT in ER/BD Dismantling of Current transformer from support structure with removal of terminal connectors and jumpers and cabling connection from the terminal box for#	1.000 EA	4311.93	4311.93
2.AK	Service 50015726	998736	Dismantling of 400kV CT/PT in ER/BD Dismantling of Current transformer from support structure with removal of terminal connectors and jumpers and cabling connection from the terminal box for#	1.000 EA	9844.27	9844.27
2.AL	Service 50015727	998736	Dismantling of 132kV LA in ER/BD Dismantling of LA from the support structure with removal of jumper from terminal connector, and stacks with stacking with removal of earthing connection and LA counter etc. complete for#	1.000 EA	2874.62	2874.62
2.AM	Service 50015728	998736	Dismantling of 198kV LA in ER/BD Dismantling of LA from the support structure with removal of jumper from terminal connector, and stacks with stacking with removal of earthing connection and LA counter etc. complete for#	1.000 EA	4311.93	4311.93

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2.AN	Service 50015729	998736	Dismantling of 398kV LA in ER/BD Dismantling of LA from the support structure with removal of jumper from terminal connector, and stacks with stacking with removal of earthing connection and LA counter etc. complete for#	1.000 EA	5774.27	5774.27
2.AP	Service 50015730	998736	Erection of 132kV LA in ER/BD Erection of LA on provided support structure with minor modification with stacks, insulator base, with leveling, connecting terminal connector and jumper connection with connecting the counter, with earthing connection etc. complete for#	1.000 EA	3593.28	3593.28
2.AQ	Service 50015731	998736	Erection of 198kV LA in ER/BD Erection of LA on provided support structure with minor modification with stacks, insulator base, with leveling, connecting terminal connector and jumper connection with connecting the counter, with earthing connection etc. complete for#	1.000 EA	5389.32	5389.32
2.AR	Service 50015732	998736	Erection of 398kV LA in ER/BD Erection of LA on provided support structure with minor modification with stacks, insulator base, with leveling, connecting terminal connector and jumper connection with connecting the counter, with earthing connection etc. complete for#	1.000 EA	7218.73	7218.73
2.AS	Service 50015749	998736	Dismantling of 220kV WT(wt Insul.) ER/BD Dismantling of WT (PEDSTAL TYPE) with support structure removal of jumpers at both the ends, removal of support insulators etc. For#	1.000 EA	6467.90	6467.90
2.AT	Service 50015750	998736	Dismantling of 400kV WT(wt Insul.) ER/BD Dismantling of WT (PEDSTAL TYPE) with support structure removal of jumpers at both the ends, removal of support insulators etc. For#	1.000 EA	13691.40	13691.40
2.AU	Service 50015752	998736	Dismantling of 220kV WT(w/o Insul.)ER/BD Dismantling of WT only PEDSTAL TYPE without support structure with removal of jumpers at both the ends etc. For#	1.000 EA	4527.65	4527.65

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
2.AV	Service 50015753	998736	Dismantling of 400kV WT(w/o Insul.)ER/BD Dismantling of WT only PEDSTAL TYPE without support structure with removal of jumpers at both the ends etc. For#	1.000 EA	11202.92	11202.92
2.AW	Service 50015755	998736	Erection of 220kV WT(wt Insul.) ER/BD Erection of WT PEDSTAL TYPE with support insulators, leveling, erection of WT and connecting the Jumpers at both the ends with terminal clamps provided for#	1.000 EA	7186.55	7186.55
2.AX	Service 50015756	998736	Erection of 400kV WT(with Insul.) ER/BD Erection of WT PEDSTAL TYPE with support insulators, leveling, erection of WT and connecting the Jumpers at both the ends with terminal clamps provided for#	1.000 EA	15212.14	15212.14
2.AY	Service 50015758	998736	Erection of 220kV WT(w/o Insul.) ER/BD Erection of WT only PEDSTAL TYPE without support insulators, connecting the Jumpers at both the ends with terminal clamps. For#	1.000 EA	5030.59	5030.59
2.AZ	Service 50015759	998736	Erection of 400kV WT(w/o Insul.) ER/BD Erection of WT only PEDSTAL TYPE without support insulators, connecting the Jumpers at both the ends with terminal clamps. For#	1.000 EA	12448.35	12448.35
2.BA	Service 50019027	998736	Dismantling of 420kV CVT in ER/BD Dismantling of 420kV CVT from support structure with removal of cabling / termination from MB and stacking the same at required place as directed#	1.000 EA	12602.09	12602.09
2.BB	Service 50019026	998736	Erection of 420kV CVT in ER/BD Erection of 420kV CVT on provided support structure with jumper connection with suitable terminal clamp provided with connecting the required cables from MB and termination complete#	1.000 EA	15753.21	15753.21
2.BC	Service 50015760	998736	Repl. Single Tension String 220kV ER/BD Replacement of TENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	24458.12	24458.12

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
2.BD	Service 50015762	995469	Repl. Twin Tension String ER/BD Replacement of TENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	32611.22	32611.22
2.BE	Service 50015763	998519	Repl. Qaudraple Tension String ER/BD Replacement of TENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	57070.53	57070.53
2.BF	Service 50015764	998736	Repl. Single Suspension String ER/BD Replacement of SUSPENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	5187.91	5187.91
2.BG	Service 50015765	998736	Repl. Twin Suspension String ER/BD Replacement of SUSPENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	6670.50	6670.50
2.BH	Service 50015766	998736	Repl. Qaudraple Suspension string ER/BD Replacement of SUSPENSION disc insulator string with removal of hardware connected, jumpers connected and its re-erection with new insulators and making the connection of all earlier jumpers etc.#	1.000 EA	10006.35	10006.35
2.BJ	Service 50015808	995461	Dismantling of 220kV BPI in ER/BD Dismantling of BPI from the support structure with removal of jumper and terminal clamp complete for#	1.000 EA	1796.04	1796.04
2.BK	Service 50015809	995461	Dismantling of 400kV BPI in ER/BD Dismantling of BPI from the support structure with removal of jumper and terminal clamp complete for#	1.000 EA	2303.75	2303.75
2.BL	Service 50015811	998736	Erection of 245kV BPI in ER/BD Erection of BPI in stacks on provided support structure with leveling with fixing of terminal clamp with connecting the jumper for#	1.000 EA	2155.97	2155.97

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
2.BM	Service 50015812	998736	Erection of 420kV BPI in ER/BD Erection of BPI in stacks on provided support structure with leveling with fixing of terminal clamp with connecting the jumper for#	1.000 EA	2763.78	2763.78
2.BN	Service 50015814	998736	Dismantling of 220kV Couplg Cap. (ER/BD) Dismantling of CC from the support structure with removal of jumper and terminal clamps, removal of earthing complete for#	1.000 EA	4491.89	4491.89
2.BP	Service 50018538	998719	Erection 220kV Coupling Capacitor ER/BD Erection of CC on provided support structure with connecting the terminal clamp and jumper connection with fixing of LMU unit with connection of HF cable, with connection of earthing complete for#	1.000 EA	5389.32	5389.32
2.BQ	Service 50015816	996912	Repl. Jumper Connection/single in ER/BD Replacement of jumper connection with its removal with spacers from the equipment terminals with removal of connector and its re-erection with provided terminal clamps at both ends#	1.000 EA	727.00	727.00
2.BR	Service 50015817	996912	Repl. Jumper Connection/Twin in ER/BD Replacement of jumper connection with its removal with spacers from the equipment terminals with removal of connector and its re-erection with provided terminal clamps at both ends#	1.000 EA	1454.00	1454.00
2.BS	Service 50015818	996912	Repl. Jumper Connection/Quad in ER/BD Replacement of jumper connection with its removal with spacers from the equipment terminals with removal of connector and its re-erection with provided terminal clamps at both ends#	1.000 EA	2906.80	2906.80
2.BT	Service 50015819	996912	Repl. Jumper Connection/single Bus ER/BD Replacement of jumper connection with spacers from the MAIN BUS from Isolators and its re-erection with given terminal clamps at both ends#	1.000 EA	889.08	889.08
2.BU	Service 50015820	996912	Repl. jumper connection/TWIN Bus ER/BD Replacement of jumper connection with spacers from the MAIN BUS from Isolators and its re-erection with given terminal clamps at both ends#	1.000 EA	1600.59	1600.59

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
2.BV	Service 50015821	996912	Repl. jumper connection/Quad Bus ER/BD Replacement of jumper connection with spacers from the MAIN BUS from Isolators and its re-erection with given terminal clamps at both ends#	1.000 EA	3202.37	3202.37
2.BW	Service 50015822	996912	Repl. Jumper Connect/Sing Stud Bus ER/BD Replacement of jumper connection (REMOVAL & REFITTING) with spacers from STUB BUS with its removal from Suspension insulator string hardware etc. from both ends and re-erection with provided terminal clamps at both ends#	1.000 EA	1067.85	1067.85
2.BX	Service 50015823	996912	Repl. Jumper Connect/Twin Stud Bus ER/BD Replacement of jumper connection (REMOVAL & REFITTING) with spacers from STUB BUS with its removal from Suspension insulator string hardware etc. from both ends and re-erection with provided terminal clamps at both ends#	1.000 EA	1779.36	1779.36
2.BY	Service 50015824	996912	Repl. Jumper Connect/Quad Stud Bus ER/BD Replacement of jumper connection (REMOVAL & REFITTING) with spacers from STUB BUS with its removal from Suspension insulator string hardware etc. from both ends and re-erection with provided terminal clamps at both ends#	1.000 EA	3557.52	3557.52
2.BZ	Service 50015825	998736	Repl. Terminal Clamp Single in ER/BD Replacement of Terminal clamp with new one at equipment terminal with removal of jumper from both ends with crimping and refitting#	1.000 EA	727.00	727.00
2.CA	Service 50015826	998736	Repl. Terminal Clamp Twin in ER/BD Replacement of Terminal clamp with new one at equipment terminal with removal of jumper from both ends with crimping and refitting#	1.000 EA	1454.00	1454.00
2.CB	Service 50015827	998736	Repl. Terminal Clamp Quad in ER/BD Replacement of Terminal clamp with new one at equipment terminal with removal of jumper from both ends with crimping and refitting#	1.000 EA	2906.80	2906.80

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
2.CC	Service 50010134	998736	Dismantling&Erection of IPS tube Replacement of IPS tube from the equipment terminals in 400kV switchyard with removal of terminal connectors at both ends and its re-erection with provided terminal connectors#	1.000 EA	550.61	550.61
2.CD	Service 50008567	998736	Fixing 4" Al IPS Tube Fixing of IPS tube on Post Insulators (400kV or 33kV - tertiary) with provided clamp as directed#	1.000 EA	306.29	306.29
2.CE	Service 50014788	998736	Fabr.&Cutting for 4" IPS Tube Fabrication of IPS Jointing Sleeves as per drawings#	1.000 EA	2223.90	2223.90
2.CF	Service 50006570	998736	Argon Welding of IPS Tube Per Joint Welding of IPS tubes joints as per site requirement with argon welding as directed to make the joint smooth#	1.000 EA	7411.80	7411.80
2.CG	Service 50018234	998736	Dismantling of IPS Tube wt Str Dismantling of 4" IPS tube including supply of all labour T&P etc. complete.#	1.000 RMT	255.05	255.05
2.CH	Service 50015697	995469	Crimping of Single T Connector in ER/BD Crimping works ON CONDUCTOR with suitable size capacity crimping machine (overhead) with suitable size DIES for MAIN BUS jumpers T-clamps#	1.000 EA	741.30	741.30
2.CJ	Service 50015696	995469	Crimping of Twin T Connector in ER/BD Crimping works ON CONDUCTOR with suitable size capacity crimping machine (overhead) with suitable size DIES for MAIN BUS jumpers T-clamps#	1.000 EA	1482.60	1482.60
2.CK	Service 50015695	995469	Crimping of Quad T Connector in ER/BD Crimping works ON CONDUCTOR with suitable size capacity crimping machine (overhead) with suitable size DIES for MAIN BUS jumpers T-clamps#	1.000 EA	2223.90	2223.90
2.CL	Service 50015691	995469	Crimping of 132/220kV Jumper Cone ER/BD Crimping works FOR CONDUCTOR with suitable size capacity crimping machine with suitable size DIES for JUMPER CONE at ground#	1.000 EA	593.52	593.52

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Item	Item category Product no.	HSN/SA C No.	Description	Qty	Unit Rate	Amount
2.CM	Service 50015693	995469	Crimping of 400kV Jumper Cone ER/BD Crimping works FOR CONDUCTOR with suitable size capacity crimping machine with suitable size DIES for JUMPER CONE at ground#	1.000 EA	1185.84	1185.84
2.CN	Service 50015692	995469	Crimping of 132/220kV Repair Sleeves ER Crimping works ON CONDUCTOR FOR REPAIR SLEEVES (Overhead) with suitable size capacity crimping machine with suitable size DIES#	1.000 EA	2965.20	2965.20
2.CP	Service 50015694	995469	Crimping of 400kV Repair Sleeves ER/BD Crimping works ON CONDUCTOR FOR REPAIR SLEEVES (Overhead) with suitable size capacity crimping machine with suitable size DIES#	1.000 EA	5929.21	5929.21

(*Unit Rate mentioned is inclusive of all taxes)

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Annexure - I

(* NR is for Invalid Condition)

Item	Product No.	HSN/SAC	GST App. in %	Item type	Conditions*
1		998736	18.00	E	
1.AA	50015703	998736	18.00	E	EXW,
1.AB	50015704	998736	18.00	E	EXW,
1.AC	50000172	998736	18.00	E	EXW,
1.AD	50000173	998736	18.00	E	EXW,
1.AE	50015709	998736	18.00	E	EXW,
1.AF	50015720	998736	18.00	E	EXW,
1.AG	50015722	998736	18.00	E	EXW,
1.AH	50015723	998736	18.00	E	EXW,
1.AJ	50015725	998736	18.00	E	EXW,
1.AK	50015726	998736	18.00	E	EXW,
1.AL	50015727	998736	18.00	E	EXW,
1.AM	50015728	998736	18.00	E	EXW,
1.AN	50015729	998736	18.00	E	EXW,
1.AP	50015730	998736	18.00	E	EXW,
1.AQ	50015731	998736	18.00	E	EXW,
1.AR	50015732	998736	18.00	E	EXW,
1.AS	50015749	998736	18.00	E	EXW,
1.AT	50015750	998736	18.00	E	EXW,
1.AU	50015752	998736	18.00	E	EXW,
1.AV	50015753	998736	18.00	E	EXW,
1.AW	50015755	998736	18.00	E	EXW,
1.AX	50015756	998736	18.00	E	EXW,
1.AY	50015758	998736	18.00	E	EXW,
1.AZ	50015759	998736	18.00	E	EXW,
1.BA	50019027	998736	18.00	E	EXW,
1.BB	50019026	998736	18.00	E	EXW,
1.BC	50015760	998736	18.00	E	EXW,
1.BD	50015762	995469	18.00	E	EXW,
1.BE	50015763	998519	18.00	E	EXW,
1.BF	50015764	998736	18.00	E	EXW,
1.BG	50015765	998736	18.00	E	EXW,
1.BH	50015766	998736	18.00	E	EXW,
1.BJ	50015808	995461	18.00	E	EXW,
1.BK	50015809	995461	18.00	E	EXW,

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Item	Product No.	HSN/SAC	GST App. in %	Item type	Conditions*
1.BL	50015811	998736	18.00	E	EXW,
1.BM	50015812	998736	18.00	E	EXW,
1.BN	50015814	998736	18.00	E	EXW,
1.BP	50018538	998719	18.00	E	EXW,
1.BQ	50015816	996912	18.00	E	EXW,
1.BR	50015817	996912	18.00	E	EXW,
1.BS	50015818	996912	18.00	E	EXW,
1.BT	50015819	996912	18.00	E	EXW,
1.BU	50015820	996912	18.00	E	EXW,
1.BV	50015821	996912	18.00	E	EXW,
1.BW	50015822	996912	18.00	E	EXW,
1.BX	50015823	996912	18.00	E	EXW,
1.BY	50015824	996912	18.00	E	EXW,
1.BZ	50015825	996912	18.00	E	EXW,
1.CA	50015826	996912	18.00	E	EXW,
1.CB	50015827	996912	18.00	E	EXW,
1.CC	50010134	998736	18.00	E	EXW,
1.CD	50008567	998736	18.00	E	EXW,
1.CE	50014788	998736	18.00	E	EXW,
1.CF	50006570	998736	18.00	E	EXW,
1.CG	50018234	998736	18.00	E	EXW,
1.CH	50015697	995469	18.00	E	EXW,
1.CJ	50015696	995469	18.00	E	EXW,
1.CK	50015695	995469	18.00	E	EXW,
1.CL	50015691	995469	18.00	E	EXW,
1.CM	50015693	995469	18.00	E	EXW,
1.CN	50015692	995469	18.00	E	EXW,
1.CP	50015694	995469	18.00	E	EXW,
2		998736	18.00	E	
2.AA	50015703	998736	18.00	E	EXW,
2.AB	50015704	998736	18.00	E	EXW,
2.AC	50000172	998736	18.00	E	EXW,
2.AD	50000173	998736	18.00	E	EXW,
2.AE	50015709	998736	18.00	E	EXW,
2.AF	50015720	998736	18.00	E	EXW,
2.AG	50015722	998736	18.00	E	EXW,
2.AH	50015723	998736	18.00	E	EXW,
2.AJ	50015725	998736	18.00	E	EXW,
2.AK	50015726	998736	18.00	E	EXW,
2.AL	50015727	998736	18.00	E	EXW,

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Item	Product No.	HSN/SAC	GST App. in %	Item type	Conditions*
2.AM	50015728	998736	18.00	E	EXW,
2.AN	50015729	998736	18.00	E	EXW,
2.AP	50015730	998736	18.00	E	EXW,
2.AQ	50015731	998736	18.00	E	EXW,
2.AR	50015732	998736	18.00	E	EXW,
2.AS	50015749	998736	18.00	E	EXW,
2.AT	50015750	998736	18.00	E	EXW,
2.AU	50015752	998736	18.00	E	EXW,
2.AV	50015753	998736	18.00	E	EXW,
2.AW	50015755	998736	18.00	E	EXW,
2.AX	50015756	998736	18.00	E	EXW,
2.AY	50015758	998736	18.00	E	EXW,
2.AZ	50015759	998736	18.00	E	EXW,
2.BA	50019027	998736	18.00	E	EXW,
2.BB	50019026	998736	18.00	E	EXW,
2.BC	50015760	998736	18.00	E	EXW,
2.BD	50015762	995469	18.00	E	EXW,
2.BE	50015763	998519	18.00	E	EXW,
2.BF	50015764	998736	18.00	E	EXW,
2.BG	50015765	998736	18.00	E	EXW,
2.BH	50015766	998736	18.00	E	EXW,
2.BJ	50015808	995461	18.00	E	EXW,
2.BK	50015809	995461	18.00	E	EXW,
2.BL	50015811	998736	18.00	E	EXW,
2.BM	50015812	998736	18.00	E	EXW,
2.BN	50015814	998736	18.00	E	EXW,
2.BP	50018538	998719	18.00	E	EXW,
2.BQ	50015816	996912	18.00	E	EXW,
2.BR	50015817	996912	18.00	E	EXW,
2.BS	50015818	996912	18.00	E	EXW,
2.BT	50015819	996912	18.00	E	EXW,
2.BU	50015820	996912	18.00	E	EXW,
2.BV	50015821	996912	18.00	E	EXW,
2.BW	50015822	996912	18.00	E	EXW,
2.BX	50015823	996912	18.00	E	EXW,
2.BY	50015824	996912	18.00	E	EXW,
2.BZ	50015825	998736	18.00	E	EXW,
2.CA	50015826	998736	18.00	E	EXW,
2.CB	50015827	998736	18.00	E	EXW,
2.CC	50010134	998736	18.00	E	EXW,

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Item	Product No.	HSN/SAC	GST App. in %	Item type	Conditions*
2.CD	50008567	998736	18.00	E	EXW,
2.CE	50014788	998736	18.00	E	EXW,
2.CF	50006570	998736	18.00	E	EXW,
2.CG	50018234	998736	18.00	E	EXW,
2.CH	50015697	995469	18.00	E	EXW,
2.CJ	50015696	995469	18.00	E	EXW,
2.CK	50015695	995469	18.00	E	EXW,
2.CL	50015691	995469	18.00	E	EXW,
2.CM	50015693	995469	18.00	E	EXW,
2.CN	50015692	995469	18.00	E	EXW,
2.CP	50015694	995469	18.00	E	EXW,

(* PFQ -> Packing and Forwarding Per Quantity FRQ-> Freight Per Quantity FR%-> Freight in Percentage,
 EXW ->Ex-Works (Basic Price), PFP-> Packing and Forwarding in Percentage, INQ-> Insurance Per Quantity,
 INP -> Insurance in Percentage, DISCQ-> Discount Per Quantity, DISCP->Discount in Percentage)