

ORISSA POWER TRANSMISSION CORPORATION LIMITED
Construction of 132/33KV Sub-Stations alongwith 132KV Transmission Line and
Associated System at MARSHAGHAI & OLAVAR

BID DOCUMENT No.: Sr.G.M-CPC-TENDER-MARSHAGHAI-OLAVARA-PACKAGE-19/2012-13
(Equipment/Materials Price Break-up of Ex-works Prices against Package- MARSHAGHAI-OLAVARA)

PART-I, SCHEDULE-3 (FOR SUBSTATION)

SI. No.	SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	Quantity for 132/33kV Substation at MARSHAGHAI (2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33KV bays	Quantity for 132/33kV Substation at OLAVARA 5Nos(2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33KV bays	TOTAL QTY	Unit Ex-Works Price	Total Ex-Works Price	Mode of Transaction (Direct or Bought-out item)	TO BE QUOTED IN INR				
									Total Taxes & Duties applicable for transaction between bidder and OPTCL and not included in the price at Column(9) [For bought-out items, taxes & duties excluding Octroi/Entry Tax are invariably included in the price quoted at column(9)]				
									Excise Duty	VAT/Sales Tax	Other Levies (if any)	Unit (F&I)	Total (F&I)
1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
1.0	145 KV,800/400/200A,40KA, 4CORE SINGLE PHASE CURRENT TRANSFORMER	NO	1	1	2								
2.0	145 KV,1250A,40KA,ISOLATORS												
2.1	MALE & FEMALE CONTACTS	SET	1	1	2								
2.2	POWER CONTACTOR,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS ETC AS PER APPROVED SCHEMATIC.	SET	1	1	2								
2.3	LIMIT SWITCH	SET	2	2	4								
2.4	MOTOR WITH GEAR ASSEMBLY & BEVEL GEAR ASSEMBLY COMPLETE.	SET	1	1	2								
2.5	AUXILIARY SWITCH CONTACTS ASSEMBLY	SET	1	1	2								
2.6	EARTHING ROD & BLADE CONTACT SIDE	SET	1	1	2								
2.7	HINGE PINS,TERMINAL CONNECTOR,TERMINAL PAD	SET	1	1	2								
2.8	SUB TOTAL OF SI. No. 2												
3.0	145 KV,6600pF,3CORE,SINGLE PHASE CAPACITOR VOLTAGE TRANSFORMER INCLUDING TERMINAL CONNECTOR	NOS	1	1	2								

						TO BE QUOTED IN INR							
Sl. No.	SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	Quantity for 132/33kV Substation at MARSHAGHAI (2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33kV bays	Quantity for 132/33kV Substation at OLAVARA 5Nos(2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33kV bays	TOTAL QTY	Unit Ex-Works Price	Total Ex-Works Price	Mode of Transaction (Direct or Bought-out item)	Total Taxes & Duties applicable for transaction between bidder and OPTCL and not included in the price at Column(9) [For bought-out items, taxes & duties excluding Octroi/Entry Tax are invariably included in the price quoted at column(9)]				
									Excise Duty	VAT/Sales Tax	Other Levies (if any)	Unit (F&I)	Total (F&I)
1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
4.0	120 KV,METAL OXIDE, 10 KA CLASS III SURGE ARRESTOR COMPLETING WITH INSULATING BASE & SURGE MONITOR.	NOS	2	2	4								
5.0	145 KV ,2 CORE,SINGLE PHASE,IVT INCLUDING TERMINAL CONNECTOR	NOS	1	1	2								
6.0	132 KV Bus Post Insulators	NOS	3	3	6								
7.0	145KV,3150A,40K.A,SF6,CIRCUIT BREAKER												
7.1	COMPLETE ONE POLE ASSEMBLY OF BREAKER	NOS	1	1	2								
7.2	SPRING CHARGING MOTOR	NOS	1	1	2								
7.3	BREKER AUXILIARY CONTACTS	SET	1	1	2								
7.4	POWER CONTACTORS,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS,PRESSURE SWITCHES,LIMIT SWITCHES, ETC AS PER APPROVED SCHEMATIC.	SET	1	1	2								
7.5	DENSITY MONITORING SYSTEM	SET	1	1	2								
7.6	CLOSING COIL	NOS	4	4	8								
7.7	TRIPPING COIL	NOS	4	4	8								
7.8	SF6 GAS FILLING DEVICE	NOS	1	1	2								
7.9	SET OF GASKETS ,"O" RINGS,SEALS PER CIRCUIT BREAKER	SET	1	1	2								
7.10	SUB TOTAL OF SI. No. 7												
8.1	36KV(800-400-200/1-1-1A), 25KA, 3CORE SINGLE PHASE	NOS	1	1	2								
8.2	36 KV,(800-400-200/1-1-1-1 A,(3- PS CL & 1-0.2),25KA,3CORE SINGLE PHASE CURRENT TRANSFORMER	NOS	2	2	4								
9.0	36 KV,800A,25KA,ISOLATORS												

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SI. No.	SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	Quantity for 132/33kV Substation at MARSHAGHAI (2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33kV bays	Quantity for 132/33kV Substation at OLAVARA 5Nos(2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33kV bays	TOTAL QTY	Unit Ex-Works Price	Total Ex-Works Price	Mode of Transaction (Direct or Bought-out item)	Total Taxes & Duties applicable for transaction between bidder and OPTCL and not included in the price at Column(9) [For bought-out items, taxes & duties excluding Octroi/Entry Tax are invariably included in the price quoted at column(9)]				
									Excise Duty	VAT/Sales Tax	Other Levies (if any)	Unit (F&I)	Total (F&I)
1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
9.1	MALE & FEMALE CONTACTS	SET	1	1	2								
9.2	POWER CONTACTOR,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS ETC AS PER APPROVED SCHEMATIC.	SET	1	1	2								
9.3	LIMIT SWITCH	SET	2	2	4								
9.4	MOTOR WITH GEAR ASSEMBLY & BEVEL GEAR ASSEMBLY COMPLETE.	SET	1	1	2								
9.5	AUXILIARY SWITCH CONTACTS ASSEMBLY	SET	1	1	2								
9.6	EARTHING ROD & BLADE CONTACT SIDE	SET	1	1	2								
9.7	HINGE PINS,TERMINAL CONNECTOR,TERMINAL PAD	SET	1	1	2								
9.8	SUB TOTAL OF SI. No. 9												
10.0	30 KV,METAL OXIDE, 10 KA CLASS II SURGE ARRESTOR COMPLETE WITH INSULATOR BASE AND SURGE MONITOR	NOS	3	3	6								
11.0	36 KV ,2 CORE,SINGLE PHASE,IVT INCLUDING TERMINAL CONNECTOR	NOS	1	1	2								
12.0	36KV,1250A,25KA,VACUUM CIRCUIT BREAKER												
12.1	ONE COMPLETE POLE ASSEMBLY OF CIRCUIT BREAKER	SET	1	1	2								
12.2	TRIPPING COILS	NOS	4	4	8								
12.3	CLOSING COIL	NOS	4	4	8								
12.4	SPRING CHARGING MOTOR	NOS	1	1	2								
12.5	AUXILIARY SWITCH CONTACTS ASSEMBLY	SET	1	1	2								
12.6	SET OF GASKET,"O" RINGS,SEALING PER CIRCUIT BREAKER	SET	1	1	2								

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SI. No.	SUPPLY OF MANDATORY SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)	Unit	Quantity for 132/33kV Substation at MARSHAGHAI (2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33kV bays	Quantity for 132/33kV Substation at OLAVARA 5Nos(2Fdr+2Tfr+1B/C)132 KV Bays & 8 nos. (5fdr+2Tfr+1 B/c) 33kV bays	TOTAL QTY	Unit Ex-Works Price	Total Ex-Works Price	Mode of Transaction (Direct or Bought-out item)	Total Taxes & Duties applicable for transaction between bidder and OPTCL and not included in the price at Column(9) [For bought-out items, taxes & duties excluding Octroi/Entry Tax are invariably included in the price quoted at column(9)]				
									Excise Duty	VAT/Sales Tax	Other Levies (if any)	Unit (F&I)	Total (F&I)
1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
12.7	POWER CONTACTORS,RELAYS,MCBs, SWITCHES,FUSES,PUSH BUTTONS,RESISTORS,PRESSURE SWITCHES,LIMIT SWITCHES, ETC AS PER APPROVED SCHEMATIC.	SET	1	1	2								
12.8	SUB TOTAL OF SI. No. 12												
13.0	33 KV Bus Post Insulators	NOS	3	3	6								
14.0	BUS BAR & CIRCUIT MATERIALS												
14.1	120 KN INSULATOR STRINGS for Double tension Twin Moose conductor (TENSION)-132 KV	SET	2	2	4								
14.2	120 KN INSULATOR STRINGS for single tension Single Moose conductor (TENSION)-132 KV	SET	2	2	4								
14.3	120 KN INSULATOR STRINGS for Double Tension Twin Moose conductor (TENSION)-33 KV	SET	2	2	4								
14.4	120 KN INSULATOR STRINGS for Single tension Single Moose conductor (TENSION)-33 KV	SET	2	2	4								
14.5	90 KN INSULATOR STRINGS for Double/ Single Moose cond (SUSPENSION)-132 KV	SET	2	2	4								
14.9	90 KN INSULATOR STRINGS for Double/ Single Moose cond (SUSPENSION)-33 KV	SET	2	2	4								
14.10	SUB TOTAL OF SI. No. 14												
15.0	ACSR MOOSE CONDUCTOR	MTRS	200	200	400								
16.0	HARDWARES & FITTINGS/SPACERS/CLAMP & CONNECTORS	SET (EACH TYPE THREE NOS.)	1	1	2								

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									Excise Duty	VAT/Sales Tax	Other Levies (if any)	Unit (F&I)	Total (F&I)
1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
17.0	GENERAL EQUIPMENT & SUBSTATION ACCESSORIES												
17.1	POWER CABLES,1.1KV,XLPE,ARMOURED, ALUMINIUM CONDUCTOR(As per Specification)												
17.1.1	3.5 CX300 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)	PCS.	1	1	2								
17.1.2	3.5 CX185 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)	PCS.	1	1	2								
17.1.3	3.5 CX120 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)	PCS.	1	1	2								
17.1.4	3.5 CX70 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)	PCS.	1	1	2								
17.1.5	3.5 CX35 mm ² (ONE PIECE OF MAXM. LENGTH OF CABLE USED)	PCS.	1	1	2								
17.1.6	4 CX 16 mm ²	MTRS	250	250	500								
17.1.7	4 CX 6 mm ²	MTRS	250	250	500								
17.1.8	2CX 6 mm ²	MTRS	250	250	500								
17.2	CONTROL CABLES,1.1 KV, PVC,STRANDED COPPER(As per specification)												
17.2.1	4 CX 2.5 mm ²	KMS	1	1	2								
17.2.2	5 CX 2.5 mm ²	KMS	1	1	2								
17.2.3	7 CX 2.5 mm ²	KMS	1	1	2								
17.2.4	10 CX 2.5 mm ²	KMS	0.5	0.5	1								
17.2.5	12 CX 2.5 mm ²	KMS	0.5	0.5	1								
17.2.6	16 CX 2.5 mm ²	NOS.	0.5	0.5	1								
17.2.7	19 CX 2.5 mm ²	NOS.	0.5	0.5	1								

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1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
17.2.8	1CX 120 mm ² BAT TO BAT CHARGER & CHARGER TO DCDB	MTRS	50	50	100								
17.3	SUB TOTAL OF SI. No. 17												
18.0	CARRIER COMMUNICATION & OTHER MATERIALS												
18.1	132 KV,800 A,0.5mH,Pedestal Mounting WAVE TRAP	NOS	1	1	2								
18.2	LINE MATCHING UNIT & LINE MATCHING DISTRIBUTION UNIT	SET	1	1	2								
18.3	PLANTE TYPE BATTERY 350 AH, ONE COMPLETE ASSEMBLY OF BATTERY(FOR 48 V)	NO	1	1	2								
18.4	PLANTE TYPE BATTERY 350 AH, ONE COMPLETE ASSEMBLY OF BATTERY(FOR 220 V)	NO	1	1	2								
18.5	BATTERY CHARGER FOR 350 AH (48V) ONE COMPLETE SET OF ELECTRONIC CARDS	SET	1	1	2								
18.6	BATTERY CHARGER FOR 350 AH (220V) ONE COMPLETE SET OF ELECTRONIC CARDS	SET	1	1	2								
18.7	SUB TOTAL OF SI. No. 18												
19.0	PROTECTION,CONTROL METERING,EVENT LOGGER,BUS BAR PROTN PAN,COMM PAN,RELAY TOOL KITS AS PER TECH SPEC AND BOQ FOR PCM												
19.1	132 KV SIDE												
19.1.1	DISTANCE PROTECTION RELAY	NOS	1	1	2								
19.1.2	OVER CURRENT & EARTH FAULT RELAY	NOS	1	1	2								
19.1.3	MASTER TRIP RELAY	NOS	2	2	4								

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1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
19.1.4	DIFFERENTIAL PROTECTION RELAY	NOS	1	1	2								
19.1.5	TRIP SUPERVISION RELAY	NOS	2	2	4								
19.1.6	OTHER AUXILIARY RELAYS(EACH 1 NO. OF DIFFERENT TYPE)	SET	1	1	2								
19.1.7	ANNUNCIATOR	NOS	2	2	4								
19.1.8	DISCREPANCY CONTROL SWITCH												
19.1.9	a) FOR CIRCUIT BREAKER	NOS	2	2	4								
19.1.10	b) FOR ISOLATOR	NOS	2	2	4								
19.1.11	PROTECTION TRANSFER SWITCH	NOS	1	1	2								
19.1.12	AMMETER SELECTOR SWITCH	NOS	2	2	4								
19.1.13	VOLTMETER SELECTOR SWITCH	NOS	2	2	4								
19.1.14	AMMETER ALONG WITH TRANSDUCER	SET	2	2	4								
19.1.15	VOLTMETER ALONG WITH TRANSDUCER	SET	2	2	4								
19.1.16	MW METER ALONG WITH TRANSDUCER	SET	2	2	4								
19.1.17	MVAR METER ALONG WITH TRANSDUCER	SET	2	2	4								
19.2	33 KV SIDE												
19.2.1	OVER CURRENT & EARTH FAULT RELAY	NOS	1	1	2								
19.2.2	MASTER TRIP RELAY	NOS	2	2	4								
19.2.3	OTHER AUXILIARY RELAYS (EACH 1 NO. OF DIFFERENT TYPE)	SET	1	1	2								
19.2.4	ANNUNCIATOR	NOS	1	1	2								
19.2.5	CONTROL SWITCHES FOR												
19.2.6	a) CIRCUIT BREAKER	NOS	1	1	2								
19.2.7	b) ISOLATOR	NOS	1	1	2								
19.2.8	PROTECTION TRANSFER SWITCH	NOS	1	1	2								
19.2.9	AMMETER SELECTOR SWITCH	NOS	2	2	4								
19.2.10	VOLTMETER SELECTOR SWITCH	NOS	2	2	4								

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									Excise Duty	VAT/Sales Tax	Other Levies (if any)	Unit (F&I)	Total (F&I)
1	2	3	4	5	6	7	8=6x7	9	10	11	12	13	14
19.2.11	AMMETER ALONG WITH TRANSDUCER	SET	1	1	2								
19.2.12	VOLTMETER ALONG WITH TRANSDUCER	SET	1	1	2								
19.2.13	MW METER ALONG WITH TRANSDUCER	SET	1	1	2								
19.2.14	MVAR METER ALONG WITH TRANSDUCER	SET	1	1	2								
19.3	SUB TOTAL OF SI. No. 19												
	TOTAL OF SUBSTATION (PART-I)--3 -MANDATORY SPARE												

Note:

- 1 Before filling up rate/amount etc. in the schedules bidders are requested to read carefully the instruction given in Vol-I of Bidding Document.
- 2 Bidders are required to fill up amount in all column except shaded portion.
- 3 Bidders are requested to not leave any column blank. If any column is left blank it shall be considered that amount against those items are included in any other item and the total amount for that item shall be calculated as free of cost (Zero value).
- 4 Kindly enclose soft copy of the duly filled schedule in a CD with the priced copy of Bid.
- 5 In mode of transaction column please indicate Direct/Bought-Out. For Taxes & Duties on Direct/Bought-out items ref clause 6.0 of SCC (Vol-IA)
- 6 Bidder should quoted F&I including service tax, no service tax shall be paid/reimbursed on this account.

Date :

Place:

(Signature).....

(Printed Name).....

(Designation).....

(Common Seal).....