

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-XIII: Schedule of items Quantities and Factor for
deriving Item Rate from the accepted Lumpsum Price

Job: HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION,CALIBRATION, TESTING, COMMISSIONING ,FINAL PAINTING AND HANDING OVER OF CABLING PACKAGE, JUNCTION BOXES,MCC,ACP,DAVR,ELECTRO STATIC PRECIPITATOR,SOOT BLOWER SYSTEM,AND ASSOCIATED EQUIPMENTS FOR 2X660 MW NTPC MAUDA TPP PHASE-II (UNIT 3&4) AT NTPC MAUDA SUPER THERMAL POWER PROJECT.

PART B: Schedule of items & Quantities and Factors to derive Item Rate based on quoted total lumpsum price

Sl.no	Description of items	UOM	TOTAL QTY OF BOTH UNIT	T.O.P	Factor for deriving item rate from accepted Lumpsum price
SECTION-E1A: CABLE TRAYS AND ACCESSORIES (INCLUDING ALL ACCESSORIES EXCEPT THOSE LISTED IN SECTION E1B BELOW, FOR WHICH SEPARATE RATES ARE TO BE QUOTED)				I.1	
E1A.1	Ladder type 600(W) x 120 (H) mm	Mtr	8000		0.000002877819
E1A.2	Ladder type 450(W) x 120 (H) mm	Mtr	4850		0.000002359812
E1A.3	Ladder type 300(W) x 120 (H) mm	Mtr	3000		0.000002072030
E1A.4	Ladder type 150(W) x 120 (H) mm	Mtr	10000		0.000001870583
E1A.5	Perforated Type 600(W) X 120 (H) mm	Mtr	1350		0.000003942612
E1A.6	Perforated Type 300(W) X 120 (H) mm	Mtr	550		0.000002877819
E1A.7	Perforated Type 150(W) X 120 (H) mm	Mtr	6600		0.000002129586
SECTION-E1B: FLEXIBLE CABLE TRAY SUPPORT AND ACCESSORIES				I.1	
E1B.1	Base Plate for Double Support Channel	No	5000		0.000001266240
E1B.2	Base Plate for Single Support Channel	No	5200		0.000001151128
E1B.3	Double Support Channel	Mtr.	6400		0.000004460620
E1B.4	Single support channel	Mtr.	3000		0.000003942612
E1B.5	Canti Lever Arm (C/A) – for 650 mm	No	1200		0.000002877819
E1B.7	Canti Lever Arm (C/A) – for 350 mm	No	640		0.000001899361
E1B.9	90 Degree Angle fitting	No	15800		0.000001064793
E1B.10	Clamp for Double Channel (CC2)	No	540		0.000000661898
E1B.11	Clamp for Single Channel (CC1)	No	2320		0.000000633120
SECTION-E2A : LT POWER CABLES (Generally Unarmoured/Armoured)				I.2	
E2A.1	3C X 16 Sqmm Aluminium PVC Cable	Mtr.	99500		0.000000489229
E2A.2	3C X 70 sqmm Aluminium PVC Cable	Mtr.	10800		0.000000604342
E2A.3	3C X 2.5 Sqmm Copper PVC Cable	Mtr.	351400		0.000000345338
E2A.4	2C X 120sqmm Aluminium PVC Cable	Mtr.	189000		0.000000661898
E2A.5	2C X 2.5sqmm Copper PVC Cable	Mtr.	28200		0.000000316560
E2A.6	2C X 6 Sqmm Aluminium PVC Cable	Mtr.	2500		0.000000316560

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-XIII: Schedule of items Quantities and Factor for
deriving Item Rate from the accepted Lumpsum Price

Job: HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION,CALIBRATION, TESTING, COMMISSIONING ,FINAL PAINTING AND HANDING OVER OF CABLING PACKAGE, JUNCTION BOXES,MCC,ACP,DAVR,ELECTRO STATIC PRECIPITATOR,SOOT BLOWER SYSTEM,AND ASSOCIATED EQUIPMENTS FOR 2X660 MW NTPC MAUDA TPP PHASE-II (UNIT 3&4) AT NTPC MAUDA SUPER THERMAL POWER PROJECT.

PART B: Schedule of items & Quantities and Factors to derive Item Rate based on quoted total lumpsum price

Sl.no	Description of items	UOM	TOTAL QTY OF BOTH UNIT	T.O.P	Factor for deriving item rate from accepted Lumpsum price
E2A.7	3C X 50 Sqmm Copper PVC Cable	Mtr.	1600		0.000000748233
E2A.8	3C X 70 Sqmm Copper PVC Cable	Mtr.	200		0.000000863346
SECTION-E2C : LT CONTROL CABLES (Generally Unarmoured/Armoured, Screened/Unscreened)				I.2	
E2C.1	14C X 1.5 Sqmm Copper PVC Cable	Mtr.	19200		0.000000402895
E2C.2	12C X 1.5 Sqmm Copper,PVC Cable	Mtr.	197200		0.000000374117
E2C.3	3C X 1.5 Sqmm Copper PVC Cable	Mtr.	77000		0.000000316560
E2C.4	4C x 1.5 Sqmm Copper Screened cable	Mtr.	152000		0.000000316560
E2C.5	5C X 2.5 Sqmm Copper, PVC Cable	Mtr.	10000		0.000000374117
E2C.6	19C X 2.5 Sqmm Copper,PVC Cable	Mtr.	4000		0.000000518007
E2C.7	3C X 2.5 Sqmm Copper,PVC Cable	Mtr.	400		0.000000345338
SECTION-E3 : JUCTION BOXES AND PUSH BUTTON				I.3	
E3.1	Junction Boxes 450x150x300mm approx.	Nos	72		0.000030245880
E3.2	Junction Boxes 250x150x400mm approx.	Nos	204		0.000022533325
E3.3	Local Control Box For Hopper Heater 800 Lx 250 Dx515 H mm approx.	Nos	216		0.000039742684
E3.4	Local Start Stop Push Button Station 180X100X250 mm approx.	Nos.	456		0.000021238306
E3.5	230V ACDB& UPS Local ACDB	Nos.	14		0.000043167289
SECTION-E4 : STRUCTURAL STEEL				I.4	
E.4.1	Structural Steel fabrication & installation (MS angle, Channel, Plate etc)	MT	5		0.000377857667
SECTION-E5 A:SWITCHGEARS / MCC /PCC				I.5	
E5A.1	Soot Blower Motor control Center, double front, Approx overall dimension 21850(W)x2525(H)x1000(D),approx WT 16.0 MT approx., shall be supplied in eight to ten loose	Nos	2		0.003670198000

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-XIII: Schedule of items Quantities and Factor for
deriving Item Rate from the accepted Lumpsum Price

Job: HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION,CALIBRATION, TESTING, COMMISSIONING ,FINAL PAINTING AND HANDING OVER OF CABLING PACKAGE, JUNCTION BOXES,MCC,ACP,DAVR,ELECTRO STATIC PRECIPITATOR,SOOT BLOWER SYSTEM,AND ASSOCIATED EQUIPMENTS FOR 2X660 MW NTPC MAUDA TPP PHASE-II (UNIT 3&4) AT NTPC MAUDA SUPER THERMAL POWER PROJECT.

PART B: Schedule of items & Quantities and Factors to derive Item Rate based on quoted total lumpsum price

Sl.no	Description of items	UOM	TOTAL QTY OF BOTH UNIT	T.O.P	Factor for deriving item rate from accepted Lumpsum price
E5A.2	Auxiliary Control Panel, Approx Overall Dimension 9950LX1300WX2450 H mm approx, Weight of each panel 11.0 MTApprox. and supplied in loose skidding position	Nos	12		0.003117484035
SECTION-E5 B : STARTER PANEL/BOXES/POWER DISTRIBUTION BOX/MARSHALLING BOXES				1.5	
E5B.1	Electronic Control Panel, Overall dimensions approx.600 L X 550 W X 2000 H mm, approx.Weight of each panel 0.3MT. BAPCON CONTROLLER approx .dimension 280 L x 210 D x 210 H mm, 5kg approx., rotary switches, etc along with cables and connectors, shall be supplied loose for mounting in the panel at site	Nos	216		0.000259924635
E5B.2	RAPPER CONTROL PANEL Overall dimension approx.1000 L X 500 W X 2050 H mm, approx.Weight of each panel 0.30 MT. 12 +4 Nos. RAPCON Electronic modules for each panel (along with cables connectors) size 280 x 210 x 210 mm shall be supplied loose for mounting in the panel at site	Nos	12		0.000293623898
E5B.3	SATCON PANEL Overall dimension approx.1000 L X 500 W X 2050 H mm, approx.Weight of each panel 0.30 MT. 12 +4 Nos. RAPCON Electronic modules for each panel (along with cables connectors) size 280 x 210 x 210 mm shall be supplied loose for mounting in the panel at site	Nos	12		0.000276385761
E5B.4	IOS PANEL overall dimension approx.1000 L x 500 W x 2050 H mm,approx. Weight of panel 0.2 MT along with loose accessories such as IOS PC, Computer Furniture, Data Logger PC, Printer (Dot Matrix,InkJet 1+1) PC termination box, peripheral cables etc.	set	2		0.000310516697
E5B.4	DC motor starter panels, etc (DC JOP, DC EOP, Seal oil panel,DC Scanner Fan,TDBFP), including resistance boxes. Approx weight 0.5 MT and approx. dimension 1000x800x2200 mm each.	Nos	10		0.000344072069
SECTION-E5C: PANELS					
SECTION-E5D : DIGITAL AUTOMATIC VOLTAGE REGULATOR FOR BRUSHLESS EXCITATION SYSTEM				1.5	
E.5D.1	Transportation from store / storage yard to erection site , Erection, Assembly, Testing & Commissioning of Digital Excitation Equipments / System , System consist of DAVR panels & accessories as per tender specification.	Set	2		0.002380532082
SECTION- E 5F: MISCELLANEOUS EQUIPMENTS				1.5	
E5F.1	Ash Level Indicator High/Low (900L x 100 Dx 100H)comprising of level probe with extension lagging pipe, Electronic Unit, Interconnecting Cabling, Conduit, etc.	Set.	432		0.000035857628

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-XIII: Schedule of items Quantities and Factor for
deriving Item Rate from the accepted Lumpsum Price

Job: HANDLING AT SITE STORES/STORAGE YARD, TRANSPORTATION TO SITE OF WORK, COMPLETE ERECTION,CALIBRATION, TESTING, COMMISSIONING ,FINAL PAINTING AND HANDING OVER OF CABLING PACKAGE, JUNCTION BOXES,MCC,ACP,DAVR,ELECTRO STATIC PRECIPITATOR,SOOT BLOWER SYSTEM,AND ASSOCIATED EQUIPMENTS FOR 2X660 MW NTPC MAUDA TPP PHASE-II (UNIT 3&4) AT NTPC MAUDA SUPER THERMAL POWER PROJECT.

PART B: Schedule of items & Quantities and Factors to derive Item Rate based on quoted total lumpsum price

Sl.no	Description of items	UOM	TOTAL QTY OF BOTH UNIT	T.O.P	Factor for deriving item rate from accepted Lumpsum price
E5F.2	Opacity Monitor Consisting of Transmitter & Receiver, Electronic Unit, Air Blower unit, Weather Proof housings, Junction boxes, flexible hoses, mounting flanges with pipe for Transmitter, Receiver & Air blower, interconnec-ted cables etc. for mounting on ESP outlet duct.	Set.	12		0.000684172748
SECTION-E 6 : EARTHING PROTECTION STRIPS				1.6	
E6.1	50 x 6 mm GI earthing flat	Mtrs.	10200		0.000001813026
E6.2	30 X 5 mm GI earthing flat	Mtrs.	7000		0.000001496466
E6.3	GI earthing wire 8 SWG	Mtrs.	31818		0.000000259004
SECTION-E 9 : ONLY TESTING & COMMISSIONING				1.9	
E9.1	Heating elements Set Per Hopper- Heater of ESP (One set for One Hopper Panel Type as per Drg.)	SET	216		0.000021123193
E9.2	Heating elements for Support Insulator Heater, Shaft Insulator Heaters of ESP	No	1080		0.000008374454
E9.3	High Voltage Rectifier Transformers (95 KV peak, 1000 mA) including oil filtration.1400 L X 1530 D X	No	216		0.000163604024
E9.4	Testing & Commissioning of Collecting, Emitting, GD Screen Motor	No	456		0.000028893305
E9.5	Testing and commissioning of 3.3 /6.6 &11KV HT motors including dryout.	No	52		0.000152869758
E9.6	Testing and commissioning of 415 V LT motors including dry out.	No	328		0.000031080448
E9.7	Generator system testing	Set	2		0.003195472937
E9.9	Testing & Commissioning of Wall, Long Retractable, Air Heater Soot Blower	No	292		0.000028864527
E9.10	Furnace temp.probe including solonoide,thermo couple etc.	No	4		0.000077442116
E9.11	Thermostats for Hopper, Support Insulator including calibration.	No	240		0.000019166276
E9.12	Oil Centryfuge Electrical Testing and Commissioning	No	9		0.000086334577
E9.13	Electrically (LT) Operated Valves, Dampers and Gates with Actuators, Limit Switches etc.	No	1108		0.000036605861
E9.14	Electrical Operated Hoist at various area like ESP,Mill,IDF,PAF,FDF,Vacum Pumps,BFP,CW &	No	95		0.000259003732