

TENDER SPECIFICATION BHEL PSSR SCT 2025

FOR

Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) and Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India

PRICE BID

VOLUME –II



BHARAT HEAVY ELECTRICALS LIMITED

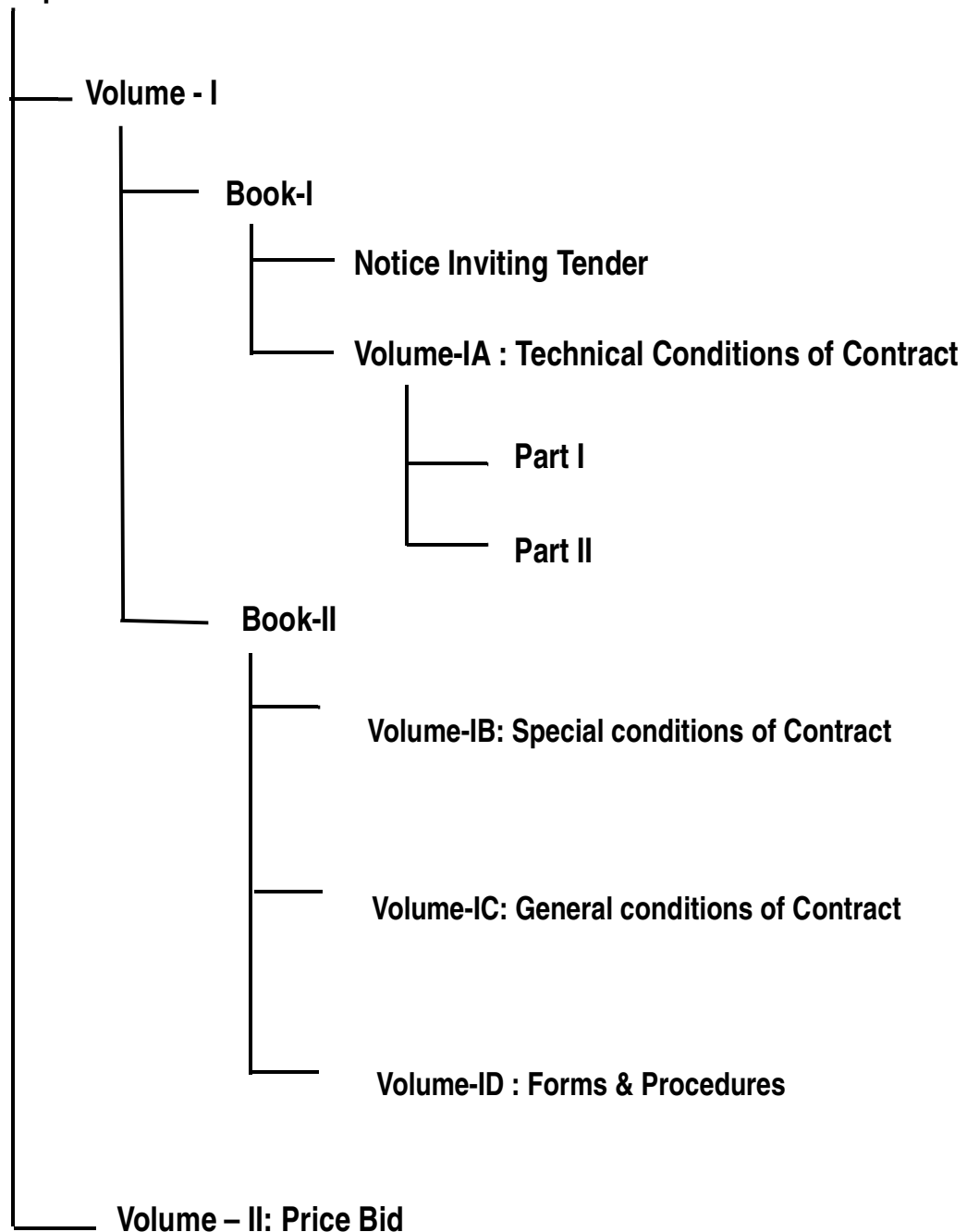
(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035

TENDER SPECIFICATION CONSISTS OF

Tender Specification



PRICE BID

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PART A

Instruction to Bidders:

1. The quantity indicated in the BOQ / Price bid (Part C) is approximate only and is liable for variation. Payment will be as per actual quantity executed as certified by BHEL Engineer.
2. Tenderers are requested to affix their company seal and authorized signature in all pages.
3. Bidders shall quote 'Total Amount' in the format enclosed as a separate Excel File in BHEL NIC e-Procurement portal for the subject tender and upload the same under 'Packet details - > Tender covers -> Finance '(Cover Type Description – Price Bid)' and same shall be taken into account for evaluation and awarding and hence, shall be complete in all respect for the full scope of work defined in specification and in accordance with terms & conditions of the tender. Any other entry elsewhere in the price bid shall be treated as Null and Void. Quoting of rates in any other form/ formats will not be entertained.
4. The above mentioned 'Total amount' is for the entire Bill of Quantity (BOQ) given in Part -C of the Price Bid.
5. BHEL has pre-fixed the weightages for the amount of individual items of Bill of Quantity with respect to the 'Total Amount' in Part-C.
6. Based on the pre-fixed weightages, the amount for the individual items of the Bill of Quantity shall be arrived at. This amount shall be rounded off to the nearest rupee.
7. Based on the quantities of individual item and the amount arrived in SI No: 6 above, unit rate of individual items shall be derived. This unit rate shall be rounded off to four decimal places.
8. Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per SI No.7 above.
9. Bidder has to quote for Package-A only.

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
I	ERECTION AND COMMISSIONING OF LOCAL/FIELD MOUNTED INSTRUMENTS	--		
B.1.1	PD Type Mass flow meter in HFO,LDO/HSD & HFO return line with mounting flanges, electronics amplifier box, inter connecting cabling, etc.	SET	6	.0001272
A.9.1, A.9.2, A.9.4, B.14.1 .4, B.14.1 .5, D.3.14 , E.1.3, G.2.3, G.2.4, G.8.5, G.8.6	Pressure Transmitters / DP Transmitters / DP Type flow transmitters	Nos	1,417	.0130087
A.9.3, A.9.5, B.14.1 .3, E.1.8, G.2.10 , G.8.11	Level Transmitter (Guided Wave/Ultrasonic Type) along with accessories	Nos	178	.0067752

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.7, A.9.8, B.1.2, B.6.1, B.14.1 .1, C.1.1, D.3.2, D.3.13 , E.1.1, E.1.2, E.2.2, E.2.5, E.3.1, F.1.4, G.2.1, G.2.5, G.5.2, G.6.1, G.7.3, G.8.10 , G.12.3	Pressure / DP Gauge/Reverse Rotation Indicators	Nos	1,112	.0074779

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Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
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at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.10 , B.1.3, B.6.3, B.14.1 .7, C.1.2, D.3.4, D.3.7, D.3.11 , E.2.1, E.3.5, E.4.3, F.1.5, G.2.2, G.5.5, G.6.5, G.7.4, G.8.4, G.12.2 , G.12.5	Temperature Gauge	Nos	778	.0076861

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Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.11 , B.1.5, C.1.4, E.1.7, E.2.7, E.3.2, F.1.6, F.1.7, G.2.9, G.8.16 , G.12.4	Level Gauge	Nos	93	.0022223

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Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.9, B.1.4, B.6.2, B.6.16 , B.6.18 , D.3.1, D.3.16 , E.1.4, E.2.3, G.2.6, G.2.14 , G.5.3, G.6.2, G.8.7, G.8.8, G.8.9	Pressure / Differential Pressure Switch / Temperature Switch	Nos	310	.0026058

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.12 , B.6.17 , B.14.1 .2, E.3.3, G.2.12 , G.8.12 , G.12.1	Level Switches (RF/Float/Capacitance/Conductivity type) along with accessories	Nos	168	.0042144

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.6, B.1.6, B.14.1 .6, B.14.1 .15, D.3.3, D.3.8, D.3.12 , E.1.5, E.2.8, G.2.13 , G.5.4, G.6.3, G.8.1, G.8.2	Temperature Elements(RTD/Thermocouple with Thermowell) / Flow Elements	Nos	1,796	.0155042
A.9.14 , E.1.11	E/P Coverters; I/P Converters	Nos	74	.0005983
B.6.19	ERV Controller with Pressure Switch App.Dimension(mm): 400x350x190; App.Wt: 10 kg	SET	8	.0004
B.1.7	FSSS Local Oil Gun Maintenance Switch Box	Nos	36	.0005583
B.1.8, F.1.3	H.E.A Exciter Box with Accessories	SET	33	.0008976

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.1.9, F.1.1	Flame Scanner Head Assembly with accessories	SET	65	.0017276
B.5.2, B.5.3	Feeder Coal Flow Assembly flange mounted with Electronics	SET	16	.0013241
B.6.4, B.6.5, B.6.6, B.6.7, B.6.8, B.6.9, D.3.9, E.1.6, G.2.15	MTM T/C (Route Length 8 to 18 MM) - 8MM OD	Nos	572	.0107077
B.6.10 , B.6.11 , B.6.12 , B.6.13 , B.6.14	MTM T/C (Route Length 20 to 28 MM) - 8MM OD	Nos	480	.0167197
B.6.15	MTM T/C (Route Length 30 to 40 MM) - 8MM OD	Nos	24	.0008623

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C.1.5, D.3.5, E.2.6, G.2.7, G.2.8, G.5.1	Flow Switch/Flow meter/Flow Indicator/Vacuum Switch	Nos	154	.0025629
D.3.6	GO No GO Switch	Nos	4	.0001962
D.3.10	On/Off Switch Box including light assembly and interconnecting heat resistant cable	SET	4	.0000998
C.1.3, E.2.9, E.3.4, G.12.6	Thermowells (Screwed & Welded)	Nos	526	.0023846
E.1.9, G.8.15	Speed Measuring Loop/Speed Probe/Speed Sensor	Nos	24	.0001922
G.6.4	Moisture Sensor Probes	Nos	4	.0000797
G.2.17 , G.8.13	Limit Switches	Nos	38	.0001421
D.3.15 , G.2.11 , G.8.14	Position Transmitters	Nos	88	.000896

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.14.1 .16, E.2.4, J.1.1	Flow Transmitters (Other than DP type)	Nos	59	.0022457
B.11.1 , B.11.2 , B.11.3	Air Filter Regulator-1/4	Nos	64	.0003554
B.14.1 .8, B.14.1 .9, B.14.1 .10, G.2.16	Analyzers (Ammonia Leak Detection/Density/pH/Conductivity)	Nos	27	.0009701
E.1.10	Proximeter Units, Local Field Cable etc. for Governing Sytem	SET	36	.0003115
C.1.6	Averaging Pitot Tube	SET	6	.000171
II	ERECTION AND COMMISSIONING OF SPECIAL INSTRUMENTS	--		

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.10.1 , A.10.2 , B.14.1 .11,	High Temp/Low Temp O2 Analyzer	SET	32	.0063264
A.10.5 , D.1.1,	Opacity Monitor	SET	10	.0027409
A.10.6	SOX/NOX/CO (Combined) Analyzer	SET	2	.0016116
A.10.3 , A.10.4 , A.10.7 , A.10.8 , B.14.1 .12, B.14.1 .13, B.14.1 .14	CO/Velocity/HF/Mercury/NOX/SOX/NH3 Analyzer	SET	42	.0269452

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.11.1 , A.11.2 , A.11.6 , A.11.7	SWAS System	SET	2	.0045641
A.12.1 .1, A.12.1 .2, A.12.2 .1, A.12.2 .2, A.12.3 .1, A.12.3 .2	Vibration Sensors (Contact type/Non contact type) with mounting pad and extension cables/with probe and probe holders	SET	663	.0063622
III	ERECTION AND COMMISSIONING OF UPS/BATTERY & BATTERY CHARGER	--		
A.13.1	2X180 kVA UPS	SET	3	.0054003
A.13.9 , A.13.1 7	2X10 / 2X20 kVA UPS	SET	2	.0021507

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.13.2 6.1	1 kVA/1.5 kVA/3 kVA/ 5kVA UPS	Nos	5	.0000472
A.13.8 , A.13.1 6, A.13.2 4	Lead Acid Plante Battery: (1285AH-360V)/(220AH-220V)- made up of two banks of 110 cells each	SET	6	.0087002
A.13.2 , A.13.1 0, A.13.1 8	ACDB	Nos	8	.0035927
A.13.2 5	Power Distribution Board	Nos	2	.0001855
IV	ERECTION AND COMMISSIONING OF CONTROL PANELS	--		
B.2.1, B.2.2	ASLD Panel Assy along with loose supplied items such as sensors, amplifiers, PSU, JB, Cables,etc	SET	2	.0009946

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
D.2.1, D.2.2, D.2.3, D.2.4, D.2.5, D.2.6	ALCS Panels with controllers, Electronic Sensors, Interfacing box & Cables, etc.	SET	2	.0011493
A.9.13	Coal bunker Level Monitoring System panel with accessories	SET	16	.0030514
B.3.1	Furnace Camera CCTV head assembly panel with air filter regulators, hose, remote control box, 24	SET	4	.0007854
G.1.2	Generator end Vibration Monitoring Cabinet with cables, monitors and accessories	SET	2	.0003189
G.1.1	Moisture Measurement System panel with controller and accessories	SET	4	.0006169
A.8.1	HART Management System panel and loose items	SET	2	.0015403
A.20.1 , A.20.2 , A.20.4 , A.20.5	Master Slave Clock System Panel with accessories, 42 U Panel, GPS Antennal, GPS Receiver	SET	1	.0001106
A.20.3	Slave Clock (RS 485 based)/NTP Based	Nos	25	.0008836
B.5.1	Gravimetric Feeder Remote Power Cabinet	Nos	16	.002657

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.1.3	Grounding Brush Monitor (Wall mounted)	SET	2	.0001488
A.13.7 , A.13.1 5, A.13.2 3	Battery Health Monitoring System Panels	Nos	8	.0009638
E.4.4	Oil Purification Control Panel	Nos	2	.000241
A.6.0. 2.1, A.6.0. 2.2, A.6.0. 2.3	Network Panels	Nos	9	.0010843
A.7.2, E.4.1	TSI System for BFP Drive Turbine / Main Turbine Complete Sensors and Assembly Items	Nos	6	.002883
A.12.1 .5, A.12.2 .5, A.12.3 .5	VMS Panels - Single Bay	Nos	7	.0009436

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1 .6	VMS Panels - Three Bay	Nos	2	.0006798
A.7.1, A.12.1 .4, A.12.2 .4, A.12.3 .4, B.1.10 , F.1.2	19 Inch Racks for Microprocessor based flame scanner Amplifier/ TSI/VMS Racks	SET	31	.0111261
B.10.2	Pulveriser Dynamic Classifier - VFD Panel	Nos	16	.0032107
IV-A	ERECTION AND PLACEMENT OF DCS PANEL	--		
A.2.1, A.3.1, A.3.2, A.4.1, A.6.1, A.6.4	Suit of One Cubicles	Nos	22	.0010381

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.1, A.1.2, A.1.3, A.2.2, A.3.3, A.3.4, A.4.2, A.6.2	Suit of Two Cubicles	Nos	25	.0017298
A.1.4, A.1.5, A.2.3, A.3.5, A.3.6, A.3.7, A.4.3, A.5.1, A.5.2, A.6.3	Suit of Three Cubicles	Nos	34	.0039049
A.1.6, A.2.4, A.3.8, A.3.9	Suit of Four Cubicles	Nos	39	.0048416
A.1.7	Suit of Five Cubicles	Nos	4	.0006509
IV-B	ALIGNMENT AND COMMISSIONING OF DCS PANELS	--		

Part C : Bill of Quantities

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.2.1. 1, A.3.1. 1, A.3.2. 1, A.4.1. 1, A.6.1. 1, A.6.4. 1	Suit of One Cubicles	Nos	22	.0015572
A.1.1. 1, A.1.2. 1, A.1.3. 1, A.2.2. 1, A.3.3. 1, A.3.4. 1, A.4.2. 1, A.6.2. 1	Suit of Two Cubicles	Nos	25	.0025945

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.4. 1, A.1.5. 1, A.2.3. 1, A.3.5. 1, A.3.6. 1, A.3.7. 1, A.4.3. 1, A.5.1. 1, A.5.2. 1, A.6.3. 1	Suit of Three Cubicles	Nos	34	.005858
A.1.6. 1, A.2.4. 1, A.3.8. 1, A.3.9. 1	Suit of Four Cubicles	Nos	39	.0072624

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.7.1	Suit of Five Cubicles	Nos	4	.0009763
V	INSTALLATION AND COMMISSIONING OF HMI SYSTEM,STATION LAN, OFFICE WAN WITH COMPLETE ACCESSORIES FOR CCR&BOP	--		
A.12.1.8, A.22.1.4, A.22.1.5, A.22.2.3, A.22.3.3, A.22.4.3, A.22.7.3, A.22.8.3	Printers (Laser Jet/DotmatrixA4/A3/COLOUR/BW)	Nos	21	.000689

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.21.1 , A.21.2 , A.21.3 , A.21.4	Large Video Screen (67-80	SET	26	.018777
A.6.0. 2.4	Network Enclosures with without Ethernet Switches	Nos	18	.0015073

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1 .7, A.22.1 .1, A.22.1 .2, A.22.1 .3, A.22.2 .1, A.22.2 .2, A.22.3 .1, A.22.3 .2, A.22.4 .1, A.22.4 .2, A.22.5 .1, A.22.5 .2, A.22.6 .1, A.22.6 .2,	OVS with Monitor/Servers/Stations/User PC	Nos	87	.0045555

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.22.7 .1, A.22.7 .2, A.22.8 .1, A.22.8 .2				
VI	INSTALLATION OF FURNITURES	--		
A.25.1 , A.25.2 ,	Unit Operator Desk-8 Section with Accessories	SET	4	.0039047
A.25.3	Operator Desk-6 Section with Accessories	SET	1	.0007994
A.25.4	Operator Desk-3 Section with Accessories	SET	1	.0004708
A.25.6	Operator Desk-2 Section with Accessories	SET	7	.0021802

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.23.1 , A.23.2 , A.23.3 , A.25.7 , A.25.8 , A.25.9 , A.25.1 0, A.25.1 1, A.25.1 3, A.25.1 4, A.25.1 5, A.25.1 6, A.25.1 7, A.25.1 8,	Computer Table/Printer Table/Chairs	SET	576	.036145

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.25.1 9				
A.25.1 2	PC/Server Rack	SET	4	.0004704
A.25.2 0, A.25.2 1	Almirah/Safety Locker	SET	4	.0001471
VII	ERECTION AND COMMISSIONING OF UCB/CONTROL ROOM MOUNTED INSTRUMENTS	--		
G.7.1,	Analog/Digital Indicators	Nos	20	.0002327
G.7.2,	Bar Graph Indicators	Nos	10	.000137
G.7.5,	Vibration Indicator along with Selector Switch	Nos	8	.0001372
VIII	INSTALLATION OF C&I BENCH FOR CALIBRATION INSTRUMENTS	--		
A.24.1 .1, A.24.2 .1,	Electronic Test Bench	SET	1	.0048851
IX	ERECTION AND COMMISSIONING OF JB/PUSH BUTTONS	--		

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1 .3, A.12.2 .3, A.12.3 .3, A.17.1 , A.17.2 , A.17.3 , A.17.4 , A.17.5 , A.17.6 , A.17.7 , A.17.8 , A.20.1 3, B.9.1, B.9.2, B.9.3, B.9.4,	Junction Boxes 6 way to 128 way	Nos	1,394	.0190646

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.9.5, B.9.6, B.10.3 , B.14.3 .1, B.14.3 .2, B.14.3 .3, B.14.3 .4, B.14.3 .5, E.5.7, F.1.8, F.1.9, G.11.1 , G.11.2				
B.14.4 .1, B.14.4 .2, G.8.17 , G.11.3 ,	Push Button Station	Nos	78	.0006306

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
X	ERECTION AND COMMISSIONING OF LIE/LIR	--		
E.5.1, E.5.2, E.5.3, E.5.4,	Local Gauge Boards	SET	20	.0017246
A.14.1 , A.14.2 , A.14.3 , B.10.1 , B.14.6 .1,	Local Instrument Enclosure	SET	208	.0179284

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.14.4 , A.14.5 , A.14.6 , A.14.7 , E.5.5, E.5.6, G.9.1, G.9.2,	Local Instrument Rack	SET	222	.0177177
XI	ERECTION AND COMMISSIONING OF PNEUMATIC POWER CYLINDERS (ON/OFF & REGULATING TYPE)	--		
B.4.1	SADC	SET	264	.0142875
B.4.2, B.4.3,	PA/ID/FD Blade Pitch & other Control Dampers	SET	44	.0044741
B.4.4, B.4.5, F.1.14	Hot Air/Cold Air/FD Fan Regulating Dampers	SET	34	.0042003
B.4.6	Dynavane Filter Pressure Control Damper with SMART positioner	SET	2	.0002233
XII	LAYING OF POWER CABLES	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.13.3 , A.13.4 ,	UN 0000 - Uninyvin- Equivalent: 1Cx109 Sqmm Cu	Mtrs	3,600	.0025161
A.13.1 1, A.13.1 2, A.13.1 9, A.13.2 0	UN 4 - Uninyvin- Equivalent: 1Cx21.5 Sqmm Cu	Mtrs	440	.0001745
XIII	TERMINATION OF POWER CABLES	--		
A.26.1 , A.26.2 ,	UN 0000 - 1CX109 SQMM CU	Nos	80	.0001693
A.26.3 , A.26.4 , A.26.5 , A.26.6	UN 4 - 1CX21.5 SQMM CU	Nos	12	.0000147

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
XIV	LAYING AND TERMINATION OF CONTROL CABLES	--		
A.15.4 .1, A.20.7 , B.7.11 , B.7.21 , B.14.2 .7, G.4.1,	3CX2.5 SQMM/4CX2.5 SQMM	Mtrs	45,615	.0077549
A.15.4 .2, B.7.12 , B.7.13 , B.7.22 , B.14.2 .8,	5CX2.5 SQMM/7CX2.5 SQMM	Mtrs	29,860	.0050764

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.7.14 , B.7.15 , B.14.2 .9, B.14.2 .10,	9CX2.5 SQMM/12CX2.5 SQMM	Mtrs	17,800	.0040349
XV	LAYING AND TERMINATION OF INDIVIDUAL & OVERALL SHIELDED (TYPE G/F), TWISTED PAIR, ARMOURED/UNARMOURED CABLES	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.1 .1, A.15.1 .3, A.15.2 .1, A.15.3 .1, A.15.3 .6, A.20.8 , B.7.1, B.7.2, B.7.6, B.7.7, B.7.17 , B.7.23 , B.7.24 , B.14.2 .4, B.14.2 .11, G.16.1 .1,	2PX0.5 SQMM/ 2TX0.5SQMM/ 2PX1.5SQMM/ 2PX1.31SQMM/ 2PX16AWG KX/G CABLE	Mtrs	303,314	.0458363

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.16.1 .5, J.3.1				

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.1 .2, A.15.2 .2, A.15.3 .2, A.15.3 .3, A.15.5 .1, A.15.5 .2, B.7.3, B.7.8, B.7.18 , B.7.20 , B.14.2 .1, B.14.2 .5, B.14.2 .12, E.7.1, G.16.1 .2, G.16.1	4PX0.5 SQMM/ 6PX0.5SQMM F/G CABLE	Mtrs	501,732	.0852984

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
.6, G.16.2 .1, J.2.1, J.3.2,				
A.15.2 .3, A.15.3 .4, A.15.5 .3, B.7.4, B.7.9, B.7.19 , B.14.2 .2, B.14.2 .6, G.16.1 .3, G.16.2 .2, J.2.2, J.3.3,	8PX0.5 SQMM CABLE	Mtrs	470,555	.1155528

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.3 .5, B.7.5, B.7.10 , B.7.16 , B.14.2 .3, G.16.1 .4, J.2.3, J.3.4,	12PX0.5 SQMM/ 12PX1.31 SQMM KX CABLE	Mtrs	92,920	.0245733
J.2.4	20PX0.5SQMM	Mtrs	17,280	.0045698
A.12.1 .9, A.12.2 .9, A.12.3 .7, A.15.5 .4, A.20.9 ,	CAT-6 UTP CABLES/Ethernet Cables	Mtrs	30,880	.0023333

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.13.5 , A.13.6 , A.13.1 3, A.13.1 4, A.13.2 1, A.13.2 2, A.20.6	RS-485/RG-58 CABLE	Mtrs	22,840	.0060402
A.15.5 .6	HDPE Conduits for laying OFC Cables	Mtrs	12,000	.0122406
A.12.2 .8, A.12.3 .6, A.15.5 .5, A.20.1 0,	Laying of Optical Fibre Cable	Mtrs	52,200	.0138046

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.5 .7, A.20.1 1,	Splicing of Optical Fibre Cable	Nos	560	.0016396
XVI	ERECTION OF CABLE TRAYS WITH/WITHOUT COVER	--		
A.16.1 , A.16.3 , B.8.1, B.14.5 .1, E.7.2, F.1.10	PERFORATED CABLE TRAYS 50 MM WIDE	Mtrs	11,260	.0142508
A.16.2 , A.16.4 , B.8.2, B.14.5 .2,	PERFORATED CABLE TRAYS 100 MM WIDE	Mtrs	19,000	.0312248
B.8.3, E.7.3, F.1.11	PERFORATED CABLE TRAYS 150 MM WIDE	Mtrs	7,690	.0146715

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
XVII	FABRICATION AND INSTALLATION OF GI FLATS	--		
B.14.8 .1,	Earth Flat (50x6)	Mtrs	250	.0002503
B.14.8 .2,	Earth Wire 1.219 mm GI	Mtrs	700	.0000793
XVIII	FABRICATION AND INSTALLATION OF STRUCTURAL STEEL	--		
A.28.1 B.12.1 , B.14.7 .1, E.4.2, E.6.1, F.1.13 , G.11.4 ,	STRUCTURAL STEEL (ISMC/ISMB/ANGLE etc)	MT	40	.010647
XIX	ERECTION AND TESTING OF IMPULSE PIPES CS/AS/SS , INSTRUMENT VALVES AND FITTINGS	--		
A.11.3	AS pipes 2	Mtrs	280	.0013382

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.18.1 , A.18.2 , A.18.3 , A.18.4 , A.18.5 , A.18.6 , A.18.7 , A.18.8 , A.18.9 , G.10.5 , G.10.6 , G.10.7 , G.10.8 , G.10.9 ,	AS tubes upto 1	Mtrs	43,444	.1263797

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
E.6.2, G.10.1 , G.10.3 , G.10.4 ,	CS tubes upto 1	Mtrs	4,740	.0112817
G.10.2	CS pipes above >2	Mtrs	160	.0012603
A.11.5 , B.11.4 , B.11.5 , B.11.6 , B.11.7 , B.14.9 , E.6.3, E.6.4, F.1.12	SS tubes upto 1	Mtrs	12,990	.0100605
A.11.4	SS pipes 2	Mtrs	120	.0001859

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.19.1 , A.19.2 , A.19.3	Instrument Valves and Accessories	Nos	46	.0001338
XX	ERECTION AND TESTING OF HOSES, TUBES & GI PIPES	--		
A.20.1 2	Flexible GI Conduits	Mtrs	200	.0002116
B.11.8 , B.11.9 , B.11.1 0,	1/4,1/2,1 INCH TEFLON HOSE 1MTR/2MTR/3MTR LONG	Nos	316	.0004477
B.12.2	1/2	Mtrs	2,430	.0036263
XXI	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL AGENCY	--		
B.13.9	Burner Tilt Shear Pin Failure Indication JB with accessories	Nos	32	.0020226

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.14.1 0.4, C.2.1, E.8.6, F.2.1, F.2.2, F.2.3, G.15.4 , G.15.8 , G.15.9 , J.4.1,	Control Valves with Smart positioner/AFR/Air Lock valves etc for LO TCV, Gland Steam Inlet/Sootblower, Dump,etc applications	SET	241	.0029136
H.1.3, H.1.4, H.1.5,	HT Drives (11 kV/3.3 kV)	Nos	75	.0023149
D.4.5	Field Instruments (Level Gauges/Pressure/DP/Temperature Gauges)	Nos	48	.0004651
B.13.1 , B.13.7 , G.15.6 ,	Limit Switches/Level Switches	Nos	304	.0013552

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.13.3 , B.13.4 , B.13.5 , B.14.1 0.1, B.14.1 0.2, B.14.1 0.3, C.2.2, C.2.3, D.4.1, E.8.3, E.8.5, E.8.8, E.8.9, E.8.11 , F.2.4, F.2.5, F.2.6, G.15.2 , H.1.2, J.4.2,	LT Unit Directional/Bi-Directional drives of various applications	Nos	806	.0079171

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.13.2	Motor Starter Panels	SET	2	.0000382
B.13.6 , D.4.2,	Pneumatic Actuators for Dampers	Nos	88	.0079125
D.4.6, H.1.1,	RTDs/Thermowells of various drives	Nos	1,786	.0068149
B.13.8 , D.4.3, G.15.7 ,	Solenoid Valves for different applications like Corner Station valves, Regulating valves, etc.	Nos	552	.0059435
XXII	REMOVAL, CALIBRATION & RE-FIXING OF INSTRUMENTS ERECTED BY OTHER AGENCIES	--		
E.8.1, G.3.1, G.3.2, G.3.3, G.3.8,	Field Instruments (Gauges/Indicators)	Nos	94	.0007369

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.3.4, G.3.5, G.3.9, G.3.10 , G.15.5 ,	Field Instruments (Transmitters)	Nos	66	.0007169
G.3.6, G.3.7,	Field Instruments (Switches)	Nos	28	.0002592
G.3.11 , G.8.3,	Field Instruments (Temperature Elements)	Nos	378	.0016851
D.4.4, D.4.7, D.4.8, D.4.9, E.8.2, E.8.4, E.8.7, E.8.10	Lub Oil System/Oil Centrifuge Unit/Lub Oil skid	SET	46	.0025885
G.15.3	Oil Centrifuge Unit	SET	4	.0003818

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
J.4.3, J.4.4, J.4.5, J.4.6,	Dosing Skid (Oxygen, Ammonia, NaOH,Hydrazine)	SET	10	.0006135
E.8.12	Hydraulic Coupling of MDBFP	SET	2	.0003364
G.15.1	Condenser Vacuum Pump	SET	4	.0003928
G.15.1 0	Hydraulic Speed Control Equipment Rack (LR1)	SET	2	.0002024
B.13.1 0	Gravimetric Feeder comprising of Feeder mounted C&I equipment	SET	16	.0013567
G.15.1 1	Governing System Control Rack	SET	4	.0006438
E.8.13	Governor Console Board	SET	2	.0002485
G.15.1 2	LP Bypass control Rack/skid	SET	2	.0002413
G.15.1 3	Supply Unit Racks for HP Valve-1, HP Valve-2, IP Valves (SU1, SU2 & SU3)	SET	2	.0002278
G.15.1 4, G.15.1 5	Seal Oil Rack / Stator water rack	SET	4	.0005408

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-A (Unit 1 & 2) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.15.1 6, G.15.1 7	Seal Oil Level / PrTxr Instrument Rack / Stator Water DP Instrument Rack	SET	4	.000573
G.15.1 8	H2 Dryer Unit	SET	2	.0001834
A.27.1	Transducers-Voltage/Current/Frequency output 4-20 mA	Nos	50	.0007584
XXIII	REMOVAL, CALIBRATION & RE-FIXING OF INSTRUMENTS FOR ACID CLEANING	--		
J.5.1	Temp. Gauges	Nos	4	.0000342
J.5.2	Pressuer Gauges	Nos	4	.0000351
J.5.3	Thermocouple Stem type and MTM	Nos	16	.0000396
J.5.4	Junction Boxes	Nos	6	.0000833
TOTAL Weightage				1.0

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
I	ERECTION AND COMMISSIONING OF LOCAL/FIELD MOUNTED INSTRUMENTS	--		
B.1.1	PD Type Mass flow meter in HFO,LDO/HSD & HFO return line with mounting flanges, electronics amplifier box, inter connecting cabling, etc.	SET	6	.0001272
A.9.1, A.9.2, A.9.4, B.14.1 .4, B.14.1 .5, D.3.14 , E.1.3, G.2.3, G.2.4, G.8.5, G.8.6	Pressure Transmitters / DP Transmitters / DP Type flow transmitters	Nos	1,380	.0126725
A.9.3, A.9.5, B.14.1 .3, E.1.8, G.2.10 , G.8.11	Level Transmitter (Guided Wave/Ultrasonic Type) along with accessories	Nos	159	.0060537

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.7, A.9.8, B.1.2, B.6.1, B.14.1 .1, C.1.1, D.3.2, D.3.13 , E.1.1, E.1.2, E.2.2, E.2.5, E.3.1, G.2.1, G.2.5, G.5.2, G.6.1, G.7.3, G.8.10 , G.12.3	Pressure / DP Gauge/Reverse Rotation Indicators	Nos	992	.0066728

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.10 , B.1.3, B.6.3, B.14.1 .7, C.1.2, D.3.4, D.3.7, D.3.11 , E.2.1, E.3.5, E.4.3, G.2.2, G.5.5, G.6.5, G.7.4, G.8.4, G.12.2 , G.12.5	Temperature Guage	Nos	765	.0075598

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.11 , B.1.5, C.1.4, E.1.7, E.2.7, E.3.2, G.2.9, G.8.16 , G.12.4	Level Gauge	Nos	84	.0020078

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.9, B.1.4, B.6.2, B.6.16 , B.6.18 , D.3.1, D.3.16 , E.1.4, E.2.3, G.2.6, G.2.14 , G.5.3, G.6.2, G.8.7, G.8.8, G.8.9	Pressure / Differential Pressure Switch / Temperature Switch	Nos	310	.0026066

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.12 , B.6.17 , B.14.1 .2, E.3.3, G.2.12 , G.8.12 , G.12.1	Level Switches (RF/Float/Capacitance/Conductivity type) along with accessories	Nos	168	.0042156

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.9.6, B.1.6, B.14.1 .6, B.14.1 .15, D.3.3, D.3.8, D.3.12 , E.1.5, E.2.8, G.2.13 , G.5.4, G.6.3, G.8.1, G.8.2	Temperature Elements(RTD/Thermocouple with Thermowell) / Flow Elements	Nos	1,798	.0155258
A.9.14 , E.1.11	E/P Coverters; I/P Converters	Nos	74	.0005984
B.6.19	ERV Controller with Pressure Switch App.Dimension(mm): 400x350x190; App.Wt: 10 kg	SET	8	.0004001
B.1.7	FSSS Local Oil Gun Maintenance Switch Box	Nos	36	.0005585
B.1.8	H.E.A Exciter Box with Accessories	SET	32	.0008707

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.1.9	Flame Scanner Head Assembly with accessories	SET	64	.0017015
B.5.2, B.5.3	Feeder Coal Flow Assembly flange mounted with Electronics	SET	16	.0013245
B.6.4, B.6.5, B.6.6, B.6.7, B.6.8, B.6.9, D.3.9, E.1.6, G.2.15	MTM T/C (Route Length 8 to 18 MM) - 8MM OD	Nos	572	.0107107
B.6.10 , B.6.11 , B.6.12 , B.6.13 , B.6.14	MTM T/C (Route Length 20 to 28 MM) - 8MM OD	Nos	480	.0167244
B.6.15	MTM T/C (Route Length 30 to 40 MM) - 8MM OD	Nos	24	.0008625

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
C.1.5, D.3.5, E.2.6, G.2.7, G.2.8, G.5.1	Flow Switch/Flow meter/Flow Indicator/Vacuum Switch	Nos	154	.0025636
D.3.6	GO No GO Switch	Nos	4	.0001963
D.3.10	On/Off Switch Box including light assembly and interconnecting heat resistant cable	SET	4	.0000998
C.1.3, E.2.9, E.3.4, G.12.6	Thermowells (Screwed & Welded)	Nos	526	.0023853
E.1.9, G.8.15	Speed Measuring Loop/Speed Probe/Speed Sensor	Nos	24	.0001923
G.6.4	Moisture Sensor Probes	Nos	4	.0000797
G.2.17, G.8.13	Limit Switches	Nos	38	.0001422
D.3.15, G.2.11, G.8.14	Position Transmitters	Nos	88	.0008962

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.14.1 .16, E.2.4, J.1.1	Flow Transmitters (Other than DP type)	Nos	64	.0024367
B.11.1 , B.11.2 , B.11.3	Air Filter Regulator-1/4	Nos	64	.0003555
B.14.1 .8, B.14.1 .9, B.14.1 .10, G.2.16	Analyzers (Ammonia Leak Detection/Density/pH/Conductivity)	Nos	28	.0010063
E.1.10	Proximeter Units, Local Field Cable etc. for Governing Sytem	SET	36	.0003115
C.1.6	Averaging Pitot Tube	SET	6	.0001711
II	ERECTION AND COMMISSIONING OF SPECIAL INSTRUMENTS	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.10.1 , A.10.2 , B.14.1 .11,	High Temp/Low Temp O2 Analyzer	SET	30	.0059327
A.10.5 , D.1.1,	Opacity Monitor	SET	10	.0027417
A.10.6	SOX/NOX/CO (Combined) Analyzer	SET	2	.001612
A.10.3 , A.10.4 , A.10.7 , A.10.8 , B.14.1 .12, B.14.1 .13, B.14.1 .14	CO/Velocity/HF/Mercury/NOX/SOX/NH3 Analyzer	SET	42	.0269527

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.11.1 , A.11.2 , A.11.6 , A.11.7	SWAS System	SET	2	.0045654
A.12.1 .1, A.12.1 .2, A.12.2 .1, A.12.2 .2, A.12.3 .1, A.12.3 .2	Vibration Sensors (Contact type/Non contact type) with mounting pad and extension cables/with probe and probe holders	SET	687	.006114
III	ERECTION AND COMMISSIONING OF UPS/BATTERY & BATTERY CHARGER	--		
A.13.1	2X180 kVA UPS	SET	3	.0054018
A.13.9	2X10 / 2X20 kVA UPS	SET	1	.0010756
A.13.1 8	1 kVA/1.5 kVA/3 kVA/ 5kVA UPS	Nos	5	.0000472

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.13.8 , A.13.1 6	Lead Acid Plante Battery: (1285AH-360V)/(220AH-220V)- made up of two banks of 110 cells each	SET	5	.0072522
A.13.2 , A.13.1 0	ACDB	Nos	6	.0026953
A.13.1 7	Power Distribution Board	Nos	2	.0001855
IV	ERECTION AND COMMISSIONING OF CONTROL PANELS	--		
B.2.1, B.2.2	ASLD Panel Assy along with loose supplied items such as sensors, amplifiers, PSU, JB, Cables,etc	SET	2	.0009932
D.2.1, D.2.2, D.2.3, D.2.4, D.2.5, D.2.6	ALCS Panels with controllers, Electronic Sensors, Interfacing box & Cables, etc.	SET	2	.0011496
A.9.13	Coal bunker Level Monitoring System panel with accessories	SET	16	.0030522
B.3.1	Furnace Camera CCTV head assembly panel with air filter regulators, hose, remote control box, 24	SET	4	.0007856

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.1.2	Generator end Vibration Monitoring Cabinet with cables, monitors and accessories	SET	2	.000319
G.1.1	Moisture Measurement System panel with controller and accessories	SET	4	.000617
A.8.1	HART Management System panel and loose items	SET	2	.0015407
A.20.1 , A.20.2 , A.20.4 , A.20.5	Master Slave Clock System Panel with accessories, 42 U Panel, GPS Antennal, GPS Receiver	SET	1	.0001106
A.20.3	Slave Clock (RS 485 based)/NTP Based	Nos	45	.0015909
B.5.1	Gravimetric Feeder Remote Power Cabinet	Nos	16	.0026577
G.1.3	Grounding Brush Monitor (Wall mounted)	SET	2	.0001489
A.13.7 , A.13.1 5	Battery Health Monitoring System Panels	Nos	6	.0007231
E.4.4	Oil Purification Control Panel	Nos	2	.000241

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.6.0.2.1, A.6.0.2.2, A.6.0.2.3	Network Panels	Nos	10	.0012051
A.7.2, E.4.1	TSI System for BFP Drive Turbine / Main Turbine Complete Sensors and Assembly Items	Nos	6	.0028838
A.12.1.5, A.12.2.5, A.12.3.5	VMS Panels - Single Bay	Nos	7	.0009438
A.12.1.6	VMS Panels - Three Bay	Nos	2	.00068
A.7.1, A.12.1.4, A.12.2.4, A.12.3.4, B.1.10	19 Inch Racks for Microprocessor based flame scanner Amplifier/ TSI/VMS Racks	SET	30	.0107702

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.10.2	Pulveriser Dynamic Classifier - VFD Panel	Nos	16	.0032115
IV-A	ERECTION AND PLACEMENT OF DCS PANEL	--		
A.2.1, A.3.1, A.3.2, A.4.1, A.6.1, A.6.3	Suit of One Cubicles	Nos	23	.0010856
A.1.1, A.1.2, A.2.2, A.3.3, A.3.4, A.4.2, A.6.2	Suit of Two Cubicles	Nos	25	.0017303
A.1.3, A.2.3, A.3.5, A.3.6, A.4.3, A.5.1	Suit of Three Cubicles	Nos	27	.0031018

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.4, A.2.4, A.3.7, A.3.8	Suit of Four Cubicles	Nos	39	.0048429
A.1.5	Suit of Five Cubicles	Nos	4	.000651
IV-B	ALIGNMENT AND COMMISSIONING OF DCS PANELS	--		
A.2.1. 1, A.3.1. 1, A.3.2. 1, A.4.1. 1, A.6.1. 1, A.6.3. 1	Suit of One Cubicles	Nos	23	.0016284

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.1. 1, A.1.2. 1, A.2.2. 1, A.3.3. 1, A.3.4. 1, A.4.2. 1, A.6.2. 1	Suit of Two Cubicles	Nos	25	.0025952
A.1.3. 1, A.2.3. 1, A.3.5. 1, A.3.6. 1, A.4.3. 1, A.5.1. 1	Suit of Three Cubicles	Nos	27	.0046532

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.4. 1, A.2.4. 1, A.3.7. 1, A.3.8. 1	Suit of Four Cubicles	Nos	39	.0072644
A.1.5. 1	Suit of Five Cubicles	Nos	4	.0009766
V	INSTALLATION AND COMMISSIONING OF HMI SYSTEM,STATION LAN, OFFICE WAN WITH COMPLETE ACCESSORIES FOR CCR&BOP	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1 .8, A.22.1 .4, A.22.1 .5, A.22.2 .3, A.22.3 .3, A.22.4 .3, A.22.5 .3, A.22.6 .3	Printers (Laser Jet/DotmatrixA4/A3/COLOUR/BW)	Nos	21	.0006892
A.21.1 , A.21.2 , A.21.3	Large Video Screen (67-80	SET	21	.0151703
A.6.0. 2.4	Network Enclosures with without Ethernet Switches	Nos	6	.0005026

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1 .7, A.22.1 .1, A.22.1 .2, A.22.1 .3, A.22.2 .1, A.22.2 .2, A.22.3 .1, A.22.3 .2, A.22.4 .1, A.22.4 .2, A.22.5 .1, A.22.5 .2, A.22.6 .1, A.22.6 .2	OVS with Monitor/Servers/Stations/User PC	Nos	65	.0034045

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
VI	INSTALLATION OF FURNITURES	--		
A.25.1 , A.25.2 ,	Unit Operator Desk-8 Section with Accessories	SET	3	.0029294
A.25.1 9	Operator Desk-6 Section with Accessories	SET	1	.0007996
A.25.3	Operator Desk-3 Section with Accessories	SET	1	.000471
A.25.4	Operator Desk-2 Section with Accessories	SET	6	.0018692

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.23.1 , A.23.2 , A.23.3 , A.25.5 , A.25.6 , A.25.7 , A.25.8 , A.25.9 , A.25.1 1, A.25.1 2, A.25.1 3, A.25.1 4, A.25.1 5, A.25.1 6	Computer Table/Printer Table/Chairs	SET	516	.0323889

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.25.1 0	PC/Server Rack	SET	4	.0004706
A.25.1 7, A.25.1 8	Almirah/Safety Locker	SET	4	.0001472
VII	ERECTION AND COMMISSIONING OF UCB/CONTROL ROOM MOUNTED INSTRUMENTS	--		
G.7.1,	Analog/Digital Indicators	Nos	20	.0002328
G.7.2,	Bar Graph Indicators	Nos	10	.000137
G.7.5,	Vibration Indicator along with Selector Switch	Nos	8	.0001373
VIII	INSTALLATION OF C&I BENCH FOR CALIBRATION INSTRUMENTS	--		
A.24.1 .1, A.24.2 .1,	Electronic Test Bench	SET	1	.0048864
IX	ERECTION AND COMMISSIONING OF JB/PUSH BUTTONS	--		

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1 .3, A.12.2 .3, A.12.3 .3, A.17.1 , A.17.2 , A.17.3 , A.17.4 , A.17.5 , A.17.6 , A.17.7 , A.17.8 , A.20.1 3, B.9.1, B.9.2, B.9.3, B.9.4,	Junction Boxes 6 way to 128 way	Nos	1,363	.0186458

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.9.5, B.9.6, B.10.3 , B.14.3 .1, B.14.3 .2, B.14.3 .3, B.14.3 .4, B.14.3 .5, E.5.7, G.11.1 , G.11.2 ,				
B.14.4 .1, B.14.4 .2, G.8.17 , G.11.3 ,	Push Button Station	Nos	78	.0006308

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
X	ERECTION AND COMMISSIONING OF LIE/LIR	--		
E.5.1, E.5.2, E.5.3, E.5.4,	Local Gauge Boards	SET	20	.0017251
A.14.1 , A.14.2 , A.14.3 , B.10.1 , B.14.6 .1,	Local Instrument Enclosure	SET	196	.0168987

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.14.4 , A.14.5 , A.14.6 , A.14.7 , E.5.5, E.5.6, G.9.1, G.9.2,	Local Instrument Rack	SET	208	.0166049
XI	ERECTION AND COMMISSIONING OF PNEUMATIC POWER CYLINDERS (ON/OFF & REGULATING TYPE)	--		
B.4.1	SADC	SET	264	.0142914
B.4.2, B.4.3,	PA/ID/FD Blade Pitch & other Control Dampers	SET	44	.0044753
B.4.4, B.4.5,	Hot Air/Cold Air/FD Fan Regulating Dampers	SET	32	.0039544
B.4.6	Dynavane Filter Pressure Control Damper with SMART positioner	SET	2	.0002234
XII	LAYING OF POWER CABLES	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.13.3 , A.13.4 ,	UN 0000 - Uninyvin- Equivalent: 1Cx109 Sqmm Cu	Mtrs	3,600	.0025168
A.13.1 1, A.13.1 2,	UN 4 - Uninyvin- Equivalent: 1Cx21.5 Sqmm Cu	Mtrs	220	.0000873
XIII	TERMINATION OF POWER CABLES	--		
A.26.1 , A.26.2 ,	UN 0000 - 1CX109 SQMM CU	Nos	80	.0001693
A.26.3 , A.26.4	UN 4 - 1CX21.9 SQMM CU	Nos	6	.0000074
XIV	LAYING AND TERMINATION OF CONTROL CABLES	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.4 .1, A.20.7 , B.7.11 , B.7.21 , B.14.2 .7, G.4.1,	3CX2.5 SQMM/4CX2.5 SQMM	Mtrs	48,315	.0082162
A.15.4 .2, B.7.12 , B.7.13 , B.7.22 , B.14.2 .8,	5CX2.5 SQMM/7CX2.5 SQMM	Mtrs	29,860	.0050778

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.7.14 , B.7.15 , B.14.2 .9, B.14.2 .10,	9CX2.5 SQMM/12CX2.5 SQMM	Mtrs	17,800	.004036
XV	LAYING AND TERMINATION OF INDIVIDUAL & OVERALL SHIELDED (TYPE G/F), TWISTED PAIR, ARMOURED/UNARMOURED CABLES	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.1 .1, A.15.1 .3, A.15.2 .1, A.15.3 .1, A.15.3 .6, A.20.8 , B.7.1, B.7.2, B.7.6, B.7.7, B.7.17 , B.7.23 , B.7.24 , B.14.2 .4, B.14.2 .11, G.16.1 .1,	2PX0.5 SQMM/ 2TX0.5SQMM/ 2PX1.5SQMM/ 2PX1.31SQMM/ 2PX16AWG KX/G CABLE	Mtrs	306,914	.0463932

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.16.1 .5, J.3.1,				

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.1 .2, A.15.2 .2, A.15.3 .2, A.15.3 .3, A.15.5 .1, A.15.5 .2, B.7.3, B.7.8, B.7.18 , B.7.20 , B.14.2 .1, B.14.2 .5, B.14.2 .12, E.7.1, G.16.1 .2, G.16.1	4PX0.5 SQMM/ 6PX0.5SQMM F/G CABLE	Mtrs	501,734	.0853225

Part C : Bill of Quantities

**Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site
BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and
Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village,
Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.**

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
.6, G.16.2 .1, J.2.1, J.3.2,				
A.15.2 .3, A.15.3 .4, A.15.5 .3, B.7.4, B.7.9, B.7.19 , B.14.2 .2, B.14.2 .6, G.16.1 .3, G.16.2 .2, J.2.2, J.3.3,	8PX0.5 SQMM CABLE	Mtrs	470,555	.1155849

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.15.3 .5, B.7.5, B.7.10 , B.7.16 , B.14.2 .3, G.16.1 .4, J.2.3, J.3.4,	12PX0.5 SQMM/ 12PX1.31 SQMM KX CABLE	Mtrs	92,920	.0245802
J.2.4	20PX0.5SQMM	Mtrs	17,280	.0045711
A.12.1 .9, A.12.2 .9, A.12.3 .9, A.15.5 .4, A.20.9 ,	CAT-6 UTP CABLES/Ethernet Cables	Mtrs	31,160	.0023551

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.13.5 , A.13.6 , A.13.1 3, A.13.1 4, A.20.6 ,	RS-485/RG-58 CABLE	Mtrs	21,930	.0058012
A.15.5 .6	HDPE Conduits for laying OFC Cables	Mtrs	12,000	.012244
A.12.2 .8, A.12.3 .6, A.15.5 .5, A.20.1 0,	Laying of Optical Fibre Cable	Mtrs	53,700	.0142053
A.15.5 .7, A.20.1 1,	Splicing of Optical Fibre Cable	Nos	560	.0016401
XVI	ERECTION OF CABLE TRAYS WITH/WITHOUT COVER	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.16.1 , A.16.3 , B.8.1, B.14.5 .1, E.7.2,	PERFORATED CABLE TRAYS 50 MM WIDE	Mtrs	11,160	.0141282
A.16.2 , A.16.4 , B.8.2, B.14.5 .2,	PERFORATED CABLE TRAYS 100 MM WIDE	Mtrs	19,000	.0312335
B.8.3, E.7.3,	PERFORATED CABLE TRAYS 150 MM WIDE	Mtrs	7,590	.0144847
XVII	FABRICATION AND INSTALLATION OF GI FLATS	--		
B.14.8 .1,	Earth Flat (50x6)	Mtrs	250	.0002504
B.14.8 .2,	Earth Wire 1.219 mm GI	Mtrs	700	.0000794
XVIII	FABRICATION AND INSTALLATION OF STRUCTURAL STEEL	--		

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.28.1 B.12.1 , B.14.7 .1, E.4.2, E.6.1, G.11.4 ,	STRUCTURAL STEEL (ISMC/ISMB/ANGLE etc)	MT	47	.0125137
XIX	ERECTION AND TESTING OF IMPULSE PIPES CS/AS/SS , INSTRUMENT VALVES AND FITTINGS	--		
A.11.3	AS pipes 2	Mtrs	280	.0013385

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.18.1 , A.18.2 , A.18.3 , A.18.4 , A.18.5 , A.18.6 , A.18.7 , A.18.8 , A.18.9 , G.10.5 , G.10.6 , G.10.7 , G.10.8 , G.10.9 ,	AS tubes upto 1	Mtrs	50,240	.1461901

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
E.6.2, G.10.1 , G.10.3 , G.10.4 ,	CS tubes upto 1	Mtrs	4,740	.0112849
G.10.2	CS pipes above >2	Mtrs	160	.0012607
A.11.5 , B.11.4 , B.11.5 , B.11.6 , B.11.7 , B.14.9 , E.6.3, E.6.4,	SS tubes upto 1	Mtrs	12,880	.0099781
A.11.4	SS pipes 2	Mtrs	120	.0001859

Part C : Bill of Quantities

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at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.19.1 , A.19.2 , A.19.3	Instrument Valves and Accessories	Nos	46	.0001521
XX	ERECTION AND TESTING OF HOSES, TUBES & GI PIPES	--		
A.20.1 2	Flexible GI Conduits	Mtrs	500	.0005291
B.11.8 , B.11.9 , B.11.1 0,	1/4,1/2,1 INCH TEFLON HOSE 1MTR/2MTR/3MTR LONG	Nos	316	.0004478
B.12.2	1/2	Mtrs	2,430	.0036273
XXI	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL AGENCY	--		
B.13.9	Burner Tilt Shear Pin Failure Indication JB with accessories	Nos	32	.0020231

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.14.1 0.4, C.2.1, E.8.6, G.15.4 , G.15.8 , G.15.9 , J.4.1,	Control Valves with Smart positioner/AFR/Air Lock valves etc for LO TCV, Gland Steam Inlet/Sootblower, Dump,etc applications	SET	209	.0025274
H.1.3, H.1.4, H.1.5,	HT Drives (11 kV/3.3 kV)	Nos	74	.0022847
D.4.5	Field Instruments (Temperature Gauges)	Nos	48	.0004653
B.13.1 , B.13.7 , G.15.6 ,	Limit Switches/Level Switches	Nos	304	.0013556

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.13.3 , B.13.4 , B.13.5 , B.14.1 0.1, B.14.1 0.2, B.14.1 0.3, C.2.2, C.2.3, D.4.1, E.8.3, E.8.5, E.8.8, E.8.9, E.8.11 , G.15.2 , H.1.2, J.4.2,	LT Unit Directional/Bi-Directional drives of various applications	Nos	752	.0073887
B.13.2	Motor Starter Panels	SET	2	.0000382

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.13.6 , D.4.2,	Pneumatic Actuators for Dampers	Nos	88	.0079147
D.4.6, H.1.1,	RTDs/Thermowells of various drives	Nos	1,634	.0062366
B.13.8 , D.4.3, G.15.7 ,	Solenoid Valves for different applications like Corner Station valves, Regulating valves, etc.	Nos	552	.0059451
XXII	REMOVAL, CALIBRATION & RE-FIXING OF INSTRUMENTS ERECTED BY OTHER AGENCIES	--		
E.8.1, G.3.1, G.3.2, G.3.3, G.3.8,	Field Instruments (Gauges/Indicators)	Nos	94	.0007371
G.3.4, G.3.5, G.3.9, G.3.10 , G.15.5 ,	Field Instruments (Transmitters)	Nos	66	.0007171

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2025 for Erection, Testing & Commissioning including Handling of materials at site BHEL stores/storage yard, transporting to site of erection and supply & application of final painting of Control and Instrumentation (C&I) works for Package-B (Unit 3 & 4) of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
G.3.6, G.3.7,	Field Instruments (Switches)	Nos	28	.0002592
G.3.11 , G.8.3,	Field Instruments (Temperature Elements)	Nos	378	.0016856
D.4.4, D.4.7, D.4.8, D.4.9, E.8.2, E.8.4, E.8.7, E.8.10	Lub Oil System/Oil Centrifuge Unit/Lub Oil skid	SET	46	.0025893
G.15.3	Oil Centrifuge Unit	SET	4	.0003819
J.4.3, J.4.4, J.4.5, J.4.6,	Dosing Skid (Oxygen, Ammonia, NaOH,Hydrazine)	SET	10	.0006137
E.8.12	Hydraulic Coupling of MDBFP	SET	2	.0003365
G.15.1	Condenser Vacuum Pump	SET	4	.0003929
G.15.1 0	Hydraulic Speed Control Equipment Rack (LR1)	SET	2	.0002025

Part C : Bill of Quantities

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at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.13.1 0	Gravimetric Feeder comprising of Feeder mounted C&I equipment	SET	16	.0013571
G.15.1 1	Governing System Control Rack	SET	4	.000644
E.8.13	Governor Console Board	SET	2	.0002485
G.15.1 2	LP Bypass control Rack/skid	SET	2	.0002414
G.15.1 3	Supply Unit Racks for HP Valve-1, HP Valve-2, IP Valves (SU1, SU2 & SU3)	SET	2	.0002279
G.15.1 4, G.15.1 5	Seal Oil Rack / Stator water rack	SET	4	.0005409
G.15.1 6, G.15.1 7	Seal Oil Level / PrTxx Instrument Rack / Stator Water DP Instrument Rack	SET	4	.0005732
G.15.1 8	H2 Dryer Unit	SET	2	.0001834
A.27.1	Transducers-Voltage/Current/Frequency output 4-20 mA	Nos	50	.0007586

Part C : Bill of Quantities

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at 5 X 800 MW Yadadri TPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
XXIII	REMOVAL, CALIBRATION & RE-FIXING OF INSTRUMENTS FOR ACID CLEANING	--		
J.5.1	Temp. Gauges	Nos	4	.0000342
J.5.2	Pressuer Gauges	Nos	4	.0000351
J.5.3	Thermocouple Stem type and MTM	Nos	16	.0000396
J.5.4	Junction Boxes	Nos	6	.0000833
TOTAL Weightage				1.0