

Amendments on Tender Specifications 2x660 MW Super Critical Thermal Power Station, Stage V, Units 7 & 8 at Suratgarh, Rajasthan				
S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
1	NIT	Defect Liability Period		The word "Defect liability Period" appearing in the NIT and "Warranty Period" indicated in the Tender Document shall have the same meaning.
2	Vol-I	Section 1	Clause 23 sub clause 3.0	<u>CRITERIA FOR EVALUATION AND COMPARISON OF BIDS</u> Owner's evaluation of Bidder's proposal will be based on detailed proposal analysis with emphasis on the following : - Quoted Price amount(s) shall mean total price adding all break up prices for complete scope of work including all taxes, duties & levies as furnished in Schedule F-1 Volume - II - Technical ability, quality and experience of the Bidder. - Project management capabilities - Proposed execution plan and schedule - The cost of all quantifiable deviations from the general and commercial conditions and the Technical Specifications - as identified in concerned Schedule – F (Volume-II) to the Bid. - The differential guaranteed parameters for Gross Heat Rate, Auxiliary Power Consumption, Transformer losses and Pressure drop across the Condenser shall be taken to arrive at the Total Differential Loading. For details regarding differential loading please refer to Section C-9 Volume-II. - The C.I.F content of the onshore portion and offshore portion of Bid price shall be converted to Indian rupees at the bill selling rate as on date of Techno-commercial Bid (Part-I) opening obtained from State Bank of India. - In case any Bidder quotes a time schedule for the project that is beyond that called for in the tender, then such Bidder shall be loaded @ 0.5% (zero point five percent) of the quoted price for every week or part thereof beyond the time schedule stipulated in the tender while evaluating their offer. - Price Preference (PP) - The CIF component of the Offshore/Onshore supply portion indicated in Price Schedule F-1 shall be increased by 15% for the purpose of evaluation. - The equated price (EQP) shall be calculated as under: $EQP = (P + X + Y + Z + PP)$ where P = Quoted Price including all taxes and duties X = Cost of Commercial and Technical Deviations. Y= Loading on account of Performance Parameters (Ref Section C-9 Vo-II) Z= Loading for the time schedule beyond the time indicated in the tender PP= Price Preference
3	Vol- I	Section -2	1.1.29	"Final Performance Acceptance" or "Final Taking Over " means the acceptance by the Owner of Unit as a whole in accordance with clause no. 10.6 of General Conditions of Contract

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
4	Vol- I	Section -2	3.17.1	Prior to Commissioning, start-up and testing operations and commencing Initial Operation, the Contractor shall train Owner's and its designated personnel of a minimum of 60 (sixty) people for six months in the operation, maintenance and repair of the EPC Package, including classroom, on-the-job and safety training
5	Vol- I	Section – 2	3.17.4	Apart from the above mentioned training, the Contractor shall also provide specialised training of not less than 5 (five) weeks duration for 5 (five) nos batches with each batch comprising of 10 nos of Engineers. The Contractor shall also arrange training for 10 days duration for 10 nos of senior management officers/engineers in three batches. All expenses including to & fro air travel, lodging and boarding, local transport and out of pocket expenses shall be borne by Contractor. The training shall be provided at the Qualified Steam Generator, Steam Turbine Generator, Generator , other Major Equipment Manufacturer's works , wherever appearing in the specification
6	Vol- I	Section -2 D	Annexure A,B & D	This Bank Guarantee shall be revalidated automatically on demand by Owner in the event Contract Performance Guarantee period is <u>extended</u> .
				This Bank Guarantee shall be revalidated automatically on demand by Owner till the set-off in full of the Advance Payment made by the Owner
				This Bank Guarantee shall be revalidated automatically on demand by Owner in the event Equipment Performance Guarantee is extended.
7	Vol - I	Section -3	Clause 4.6	Liquidated Damage (LD) for delay in Phased Manufacturing Program
				The amount of Liquidated Damage for delay to meet, various milestones of phased manufacturing program.....The Liquidated Damages for delay in Phased Manufacturing Program shall be independent of the Liquidated Damages for delay in completion of facilities and shall have no link with the Limitation of Liability as per Section -2 clause no 19.2 of Volume-I . The Schedule for Phased Manufacturing Program (PMP) with Weightage for LD as indicated in Annexure-II of ITB Section -1, Volume – I
8	Vol - I	Section -3	Clause 2.5	PRICE ADJUSTMENT FOR THE CIVIL WORKS
				The existing clause stands modified as under in Annexure-I
9	Vol- II	General	-	Please refer attached coal and ash analysis of Indian and Imported coal.
10	Vol-II, sec-A	2 of 4	2.0(b)	In this clause - " (More than 25) years " is to be read as "(More than 30) years"
11	Vol-II/ SEC C1	39 of 44	-	Ammdment- Volume II Section C 1 sheet 39 of 44 - Exclusion list shall include ash dyke
12	Vol-II / Sec C9	-	-	Tender Evaluation report is revised. Same report is enclosed alongwith this amendment.
13	Vol-II	Schedule F1		Revised Price schedule is attached
14	Vol-II/ C1	39 of 44	1.9.0	Terminal point for water to be read as- "Potable water for colony shall be 6m away from common discharge header at plant.

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
15	Vol-III A / C2	75 of 80	2.31.11 & 2.31.12	Mechanical / Electronic Over speed trip for BFPTD is to be provided.
16	Vol-III A / C2	18 of 80	2.14.51	Clause may be read as " BIDDER shall provide necessary provisions along with isolation valves in the lube oil system for filling & draining lube oil from/to central oil system(COT/DOT) of Unit 7 &8.
17	Vol-III A/ datasheet A16	5 of 12	1.10	ERW, BLACK IS 1239 Heavy class (PT-1) Rubber Lined (5 mm thk) ERW, IS 1978 (OR) API 5L GR. B (OR) IS 3589 FABRICATED FROM IS 2062 – Rubber Lined (5 mm) shall be read as "ERW, BLACK IS 1239 Heavy class (PT-1), ERW, IS 1978 (OR) API 5L GR. B (OR) IS 3589 FABRICATED FROM IS 2062".
18	Vol-III B / D4	1 of 23	1.0(ix)	Hydrazine and phosphate dosing system are deleted
19	Vol-III B - D4	2 of 23	2.2.1	Added boat specification. i. Rating - 40 HP ii. Fuel - Diesel iii. Hull - FRP or Alluminum iv. No.of Passengers - 6 v. Net load - 1000 Kg (Extra load 100 Kg need to be considered) vi. Life jackets - 12 nos. vii. Speed - 10 km/hr shall be variable speed viii. Control box is Required : Yes
20	Vol-III B - D4	15 of 23	8.2	Add g) 2X100% DM cooling water pumps for ash handling compressors. h) 2X100% plate heat exchangers for ash handling compressors.
21	Vol-III B - D4	15 of 23	8.5 & 8.6	DM cooling water is to be provided on primary side of plate heat exchanger for Turbine oil coolers. Therefore Turbine oil coolers is deleted from Cl. 8.5(ii) and added in TG auxiliaries Clause 8.6(ii) at s.no (vii)
22	Vol-III B - D4	15 of 23	8.6 iii	"Air compressors for plant" shall be read as "Air compressors for plant and Ash handling system"
23	Vol-III B / D4	16 of 23	9.1	" 2x100% (1W + 1S) for each unit " shall be read as "2x100% (1W+1S) common for both units".
24	Vol-III B / D4	23 of 23	1.0	TERMINAL POINTS 1.0 Clause is to be read as -"Portable water for colony shall be 6m away from common discharge header at plant."
25	Vol-III B / D6, Data sheet A	4 of 5	Cl. 6.3	Bidder to provide two (2) nos. of Fire tenders and one (1) no. of Mahendra bolero vehicle. Further details to fire tender bidder to refer Sec D6.2 (Fire protection Equipment - Mobile tender data sheet A).
26	Vol-III B / D8	3 of 25	2.3	The average and peak reclaiming capacity of Stacker cum reclaimer shall be read as 765TPH and 1000TPH respectively.
27	Vol-III B / D8	7 of 25	3.1.38	Indicating marker of metal Detector shall be sand bag marker.
28	Vol-III B / D8	15 of 25	3.2	The following statement added. "Hooters shall be provided to annunciate the conveyor starting for personnel safety. Bidder shall decide the quantity of hooters such that the entire length of the conveyor is covered. The audible range and duration of the hooter shall be decided by the bidder during detailed engineering."

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
29	Vol-III B - D-8, Data Sheet A	12 of 37	11	Amendment-A.C thruster operated rail clamps along with manual rail clamps on both side of tripper should be provided.
30	Vol-IIIB / D9	3 of 14	2.4	Add- 15m static lift considering future bund rise. Each Garlanding pipe length shall be minimum 25m. Minimum 8 outlets along periphery of the ash pond shall be provided.
31	Vol-III B - D-9	12 of 14	10.5	"----- 380TPH for SG of each unit " shall be read as "----- 405TPH for SG of each unit"
32	Vol-IIIB / D9	General		The pressure drop calculation friction factor of C=100 shall be considered(including Ash handling piping) since pipes are of IS 1239/ 3589.
33	Vol-IIIB / D14	1 of 10	1.1	"HFO shall be brought to site by railway wagons each of 35 T capacity. One rake of wagons consisting of 80 wagons shall split and placed on two tracks of 40 wagons each." shall be read as " HFO shall be brought to site by railway wagons each of about 70T capacity. One rake of wagons consisting of 48 wagons shall be placed on single track."
34	Vol-IIIB / D14	1 of 10	1.2	"LDO shall be brought to site by road tankers each of 10 T capacity." shall be read as " LDO shall be brought to site by road tankers each of 10 T capacity. LDO unloading facility envisaged would enable unloading of four (4) road tankers at a time."
35	Vol-IIIB / D14	1 of 10	1.3.3	" Nine (5 x 200 + 4 x 50 m ³ /hr) nos., HFO unloading pumps of twin screw type, complete with suction hoses, strainers, isolation valves, fittings, instruments, drip pans, etc. The capacity of unloading pumps shall be as follows : Unloading pumps : 5 x 200 m ³ /hr capacity Decanting pumps : 4 x 50 m ³ /hr capacity " shall be read as " Eight (6 x 200 + 2 x 50 m ³ /hr) nos., HFO unloading pumps of twin screw type, complete with suction hoses, strainers, isolation valves, fittings, instruments, drip pans, etc. The capacity of unloading pumps shall be as follows : Unloading pumps : 6 x 200 m ³ /hr capacity (5W + 1S) Decanting pumps : 2 x 50 m ³ /hr capacity (1W + 1S)."
36	Vol-IIIB / D14	2 of 10	1.8	" The recovered oil shall be pumped to the storage tanks, while the separated water shall be pumped to the effluent treatment plant." shall be read as "The recovered oil shall be pumped to the storage tanks, while the separated water shall be pumped to central monitoring basin."
37	Vol-IIIB / D14	5 of 10	S.No. 11 under HFO drain tank	" FLOOR COIL HEATERS (STEAM TRACNG) - NOT APPLICABLE " shall be read as " FLOOR COIL HEATERS (STEAM TRACNG) - APPLICABLE "
38	Vol-IIIB	Section-D15 data sheet-A	cl.no 13	Type of fills "PVC splash V bars, finished color : White " shall be read as "PVC splash V bars (NOTE: Fills like Trickle Block / Trickle Grid or film type not acceptable) finished color : White "

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
39	Vol-IIIB / D18	1&2 of 7	3.2 h), 4.5 & 4.7	Two common Hydrogen filling gas manifolds are to be provided with 20 filling connection(10 per manifold) so that at a time 10 cylinder can be filled.
40	Vol-III B - D19	5 of 7	4.3	"Three(3) Nos. portable centrifuge with capacity of 4000 Ltr/hr is required" shall be read as "Three(3) Nos. portable centrifuge with capacity of 2000 Ltr/hr is required".
41	Vol-III B - D-19	5 of 7	sl.no.3.2	Two (1W+1S) nos. of Weigh Bridge of 100T capacity to be provided near fly ash silo.
42	Vol-III B / D20	1 of 4	1.1	In this clause " irrigation department " shall be read as " water resources department"
43	Vol-III B / D20	1 of 4	1.4	"Under ground GRP pipe line shall be laid from River water pump house-----" shall be read as "Under ground MS pipe line shall be laid from River water pump house-----"
44	Vol-III B / D20	2 of 4	1.5	Last line - " Volume VI for design parameters of Civil works" is deleted.
45	Vol-IIIB / D20	1 of 4	Cl. 1.4.1	Following Clause 1.4.1 is added- Bidder to provide suitable gas chlorination system from river water pump house to plant. Dosage rate shall be selected such that residual chlorine at the inlet of plant reservoir to be 0.5 ppm.
46	Vol-IIIB / D20	2 of 4	Cl. 1.6, a	Amendment - "2 Nos. 11kV distribution feeders starting from the 11 kV Station switchgear located in the power plant up to the 11kV Switchgear of the river water pump house which is located 4 KMs away." shall be read as "2 Nos. 11kV distribution feeders starting from the 11 kV Station switchgear located in the power plant up to the 11kV Switchgear of the river water pump house which is located 6 KMs away."
47	Vol-IIIB / D20	1	1.2	Water for intake system shall be drawn from existing link canal. So scope of bidder for link canal is from existing canal to desliting chamber only. Screen and Parshall flume at intake head works are also deleted from the scope.
48	Vol - IVA	1 of 1	-	Add Clause no. 1.1 as follows: VFD shall be provided for Seal air fans and Raw coal feeders.
49	Vol - IVB / D1	2 of 10	2.3.1.(c).	Bidder to read the clause no. 2.3.1.(c) as follows : c) The scope also includes interconnection of the existing and new 400 kV Switchyards. The distance between existing and new Switchyards is approximately 2 KMs. The scope includes 400kV interconnecting lines , Towers, associated insulators, hardware , civil and structural works, Control and protection. Necessary surveying, leveling, foundations, tower spotting works are also included in the vendor's scope.
50	Vol - IVB / D1	2 of 10	2.3.2.	Bidder to read the clause no. 2.3.2 as follows : 11 kV Double circuit lines on Lattice structure from the Power plant to River Water Pump House. Distance between the Power plant and the RW Pump House shall be considered as 6 KMs for the purpose of tender. Scope includes survey, leveling, foundation, towers, and complete mechanical /electrical hardware and all necessary structural and civil works

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
51	Vol - IVB / D1	3 & 4 of 10	2.6.2	Separate central control panel specified in this clause shall be considered as deleted. However, BIDDER to note that OLTC for UTs & STs shall also be controlled from respective ECP, in addition to the control from respective remote tap changer control panel & DCS.
52	Vol - IVB / D1	4 of 10	2.6.3	BIDDER to read clause no. 2.6.3 as follows: " Separate Generator Control & Synchronizing panel for each unit shall be provided for control of the following: a) Main Turbine & Generator b) Field Breaker c) GCB d) 400kV GT circuit breakers and its associated Isolators e) Diesel Generator "
53	Vol - IVB / D1	8 of 10	2.13	Add the following: 2.13.7) One (1) no. Passenger cum goods elevator for each Crusher house.
54	Vol - IVB / D1	9 of 10	2.15.2	BIDDER to read the clause no. 2.15.2 as follows: Vertical trays (raceways) and all outdoor cable trays shall be provided with removable 16 guage painted M.S. sheet covers.
55	Vol - IVB / D2	1 of 18	1.0 (a)	BIDDER to read clause no.1.0.(a) as follows: "Separate Generator control panel (GCP) shall be provided for each unit. The control (Open/Close, Raise/Lower Voltage, Raise /Lower speed) of the Main turbine, Generator, GCB , DG and 2 Nos. 400 kV GT Circuit breakers and its associated Isolators will be possible from the respective Generator control panel (GCP) . Number of 400kV circuit breakers to be controlled from each GCP shall be 2 breakers . Number of 400kV isolators to be controlled from each GCP shall be 5 nos".
56	Vol - IVB / D2	2 of 18	2	BIDDER to read clause no.2.0 as follows: " Following minimum hardware shall be provided in each GCP"
57	Vol - IVB / D2	2 & 3 of 18	2	Add the following: l) Diesel Generator- Raise/lower of speed and voltage
58	Vol - IVB / D2	5 of 18	3.3.3.(l).(g)	BIDDER to read clause no. 3.3.3.(l).(g) as follows: "Loss of Excitation protection with and without under voltage (40G)".
59	Vol - IVB / D2	8 of 18	4	Add the following clause: clause no. 4.5: Dead bus slow auto transfer schme for changeover of supply from 11kV station switchgear-7C/7D to 11kV station switchgear-8C/8D and vice versa shall be provided. The 11kV station switchgears shall be provided with manual live changeover scheme for planned changeover of supply from station switchgear 7C/7D incomer to 11kV station switchgear 8C/8D bus supply and vice versa.

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
60	Vol - IVB / D4	3 of 12	3.3.	BIDDER to read; The total load during Case-A = sum of [(a) + (b) + (c) + (d) + {Max of (e) or (f), whichever is higher}]
61	Vol - IVB / D4	11 of 12	13	BIDDER to read clause no. 13.0 as follows: 13.0. LIQUIDATED DAMAGES & REJECTION CRITERIA: 13.1. The criteria for imposing liquidated damages and for rejection of any transformer is as follows: if during tests or service any of the following conditions arise:
62	Vol - IVB / D4	12 of 12	13.1.(a)	Clause no. 13.1.(a) shall be read as follows: At the time of testing of transformers (shop test), if total losses(No Load losses+ Load Losses + Cooler Losses) exceed the maximum guaranteed value (including tolerance, if any) quoted by the bidder, by a value up to and including 10%, liquidated damages shall be imposed @ Rs. 4.50 Lacs per KW, for the losses exceeding the maximum guaranteed values indicated in the bid. However, if Total Transformer losses measured during testing of transformers (shop test) exceed the maximum guaranteed value ((including tolerance, if any, Indicated in the technical bid) by more than 10%, the transformer shall be rejected.
63	Vol - IVB / D5	3 of 68	2.3.	BIDDER to consider the clause no. 2.3 as follows: Main Buses (3150A) - IPS tube of extra heavy duty of min. 4.5 inch size GT Feeder(3150A) - IPS tube of extra heavy duty of min. 4.5 inch size (for equipment to ewuipment connection) Line feeder (3150A) - IPS tube of extra heavy duty of min. 4.5 inch size (for equipment to ewuipment connection) Strung bus- QUARD MOOSE (For Higher level connection above the tubular bus bar).
64	Vol - IVB / D5	5 of 68	2.5.(b).	BIDDER to read clause no. 2.5.(b) as follows: Bus post shall be solid core type and shall be selected based on the system voltage, insulation level, and mechanical strength and pollution level requirements. Tubular bus bars shall be supported at intervals of less than 7 M irrespective of the sag.
65	Vol - IVB / D5	19 of 68	9.1	BIDDER to read clause no. 9.1 as follows: 2 Nos. 420 kV, 125 MVAR Three Phase Oil Filled Shunt Reactors shall be provided for connecting to each of the 400 kV Bus in the switchyard.

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S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
66	Vol - IVB / D5	19 of 68	9.2	BIDDER to read clause no. 9.2 as follows: 2 Nos. 420 kV, 80 MVAR Three Phase Oil Filled Shunt Reactors shall be provided for connecting to each of the 400 kV Lines – Jhunjunu-1 and 2
67	Vol - IVB / D5	25 of 68	13.4.(c).	BIDDER to read clause no. 13.4.(c) as follows: The following protections shall be provided for each reactor as per CEA guidelines: (i) Differential Protection (87R1 & 87R2) (ii) REF protection (64R) (iii) Reactor Backup protection (Impedance type or definite time over current and earth fault protection) (iv) Bucholtz, WTI, OTI, MOG with low level oil alarm & PRV
68	Vol -IVB / D6-1	1 of 3	Clause no. 1.9, Data sheet-A	Clause no. 1.9, Data sheet-A, shall be read as follows: 1.9. Momentary peak current rating in kA for Non segregated phase busducts - 127.5kA.
69	Vol- IVB / D7	2 of 22	3.2	BIDDER to read clause no. 3.2 as follows: Similarly the unit auxiliary switchgear (6.6kV) shall be provided with manual live changeover scheme for planned changeover of supply from one unit auxiliary incomer to another unit auxiliary bus supply for taking the transformer for maintenance and vice versa. The unit auxiliary switchgears are divided into two bus sections coupled with a bus coupler circuit breaker that is normally kept open. In case of failure of any one unit auxiliary switchgear incomer supply, bus coupler circuit breaker shall automatically close provided the following conditions are satisfied. (a) Voltage healthy on the other section (b) Auto/Manual selection from ECP is in auto position. (c) Incomer not tripped on fault The above logic is same for all 6.6kV switchgears.
70	Vol- IVB / D7	17 of 22	13.2	BIDDER to read the clause as follows: This CT core and the meters accuracy class shall not be inferior to 1.0S for this purpose and PT cores accuracy class shall not be inferior to 1.0 for this purpose.
71	Vol- IVB / D8	6 of 7	6	BIDDER to read clause no. 6.0 as follows: 6.0. LIQUIDATED DAMAGES & REJECTION CRITERIA: 6.1. The criteria for imposing liquidated damages and for rejection of any transformer is as follows: if during tests or service any of the following conditions arise: shall be rejected.

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72	Vol- IVB / D8	7 of 7	6.1.(a)	BIDDER to read clause no. 6.1.(a) as follows: At the time of testing of transformers (shop test), if total losses(No Load losses+ Load Losses + Cooler Losses) exceed the maximum guaranteed value (including tolerance, if any) quoted by the bidder, by a value up to and including 10%, liquidated damages shall be imposed @ Rs. 4.50 Lacs per KW, for the losses exceeding the maximum guaranteed values indicated in the bid. However, if Total Transformer losses measured during testing of transformers (shop test) exceed the maximum guaranteed value (including tolerance, if any, Indicated in the technical bid) by more than 10%, the transformer shall be rejected.
73	Vol- IVB / D8.1	4 of 5	7.0.	BIDDER to read clause as follows: 7.0. LIQUIDATED DAMAGES & REJECTION CRITERIA: The criteria for imposing liquidated damages and for rejection of any transformer is as follows: if during tests or service any of the following conditions arise:
74	Vol- IVB / D8.1	4 of 5	7.0.(a)	BIDDER to read the clause no. 7.0.(a) as follows: At the time of testing of transformers (shop test), if total losses(No load losses + Load losses + Cooler Losses) exceed the maximum guaranteed values (including tolerance, if any) prescribed in CBIP manual, then the transformers shall be rejected.
75	Vol- IVB / D8.1	5 of 5	8	BIDDER to note that Oil type service transformer losses shall not be considered for evaluation, as these losses shall be limited to the values specified in CBIP manual (with tolerance, if any). Hence, this clause no.8.0 shall be considered as deleted.
76	Vol- IVB / D9	8 of 16	6.3	Bidder to read the clause no. 6.3 as follows: All incomers of all PMCCs/PCCs/MCCs shall have digital energy meter for energy accounting. The energy Meters of Incomers shall be of the Tri Vector Meter type (TVM) with recording and download facility.
77	Vol- IVB / D9	8 of 16	6.5	Bidder shall consider all the switchgears/PMCCs/MCCs listed in clause no.1.0 of Section D9 as important MCCs except for those listed below: a) AC & DC distribution boards b) Site office switchgear c) Station ACDB 1A,1B. d) Work Shop MCC e) Admin building PCC f) Service building AC and Ventilation MCC g) Receptacle Welding DBs. h) Space Heater DB
78	Vol- IVB / D9	12 of 16	10.3	Cl.no.10.3 shall be considered as deleted.

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79	Vol- IVB / D9	12 of 16	10.5	BIDDER to read the clause as follows: This CT core and the meters accuracy class shall not be inferior to 1.0S for this purpose and PT cores accuracy class shall not be inferior to 1.0 for this purpose.
80	Vol- IVB / D13	1 of 7	1.2	BIDDER to read clause no. 1.2 as follows: LT motors for continuous duty (S1) operation & S3 (intermittent periodic duty) with a cyclic duration factor of 80% or higher, shall be energy efficient class IE-3 inline with IS -12615-2011. However, the starting current shall be limited to 600% (inclusive of 20% tolerance) of full load current.
81	Vol- IVB/ D13	1 of 7	1.3	The clause shall be read as follows: Motors shall be capable of starting and accelerating the load with the applicable method of starting without exceeding acceptable winding temperatures when supply voltage is 80% of the rated voltage for all HT motors (except for Mill Motors) and 85% for LV motors. For Mill Motors, the same shall be 85% of rated voltage for motors rated above 1000kW and 90% of rated voltage for motors rated below 1000kW.
82	Vol- IVB / D13	1 of 7	1.3	The clause shall be read as follows: All HT motors, except Mill motors, shall also be capable of satisfactory operation at full load at a supply voltage of 80% of the rated voltage for 5 min. Mill motors shall be capable of satisfactory operation at full load at a supply voltage of 80% the rated voltage for 1 minute.
83	Vol- IVB / D13	1 of 7	1.6	Locked rotor current of the HT motors, except mill motors, rated 1500 kW and below shall be limited to 600% (inclusive of 20% tolerance) of the full load current of the motors and motor rated above 1500 kW shall be limited to 450% (inclusive of 20% tolerance) of full load current of the motor. For Mill Motors, locked rotor current shall be limited to 600% (subjected to 20% tolerance) of the full load current of the motor.
84	Vol- IVB / D16	4 of 9	3.1.4	BIDDER to read the clause no. 3.1.4 as follows: Voltage drop from transformer secondary to motor terminals during starting of motors will be limited to the following values: (a) For HV motors (except MDBFP & Mill motors) – 15% of the rated voltage (b) For MDBFP motors – 20% of the rated voltage (c) For LV motors – 15% of the rated voltage. (d) For Mill Motors rated above 1000kW- 15% of the rated voltage. For Mill Motors rated below 1000kW- 10% of the rated voltage

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85	Vol- IVB / D16	8 of 9	8.5	Bidder to read clause no. 8.5 as follows: 1100V cables below 120- sq mm can be laid in two layers. Control and Instrumentation cables can be laid in three layers.
86	Vol- IVB / D25	2 of 2	5	BIDDER to read Clause no. 5.0 as follows: Separate Automatic power factor correction relay (APFCR) panel along with Capacitor banks shall be installed at each LT distribution board for Power factor improvement to 0.95.
87	Vol-IVB	TCE.5750 A-739-GA-3011	Technical data of switchyard: 3.iv.	Bidder to consider strung bus as Quard Moose.
88	Vol-IVB	TCE.5750 A-738-AU-3002	-	Accuracy class of Energy accounting and audit meters & associated CTs/PTs installed at a point after the generator stator terminals and before tapoff to the unit transformers shall not be inferior to that of 0.2S/0.2S/0.2 respectively. Accuracy class of other Energy accounting and audit meters/ associated CTs/PTs installed as per CEA guidelines shall not be inferior to 1.0S/1.0S/1.0 respectively.
89	Vol-IVB	-	-	BIDDER to note that for offsite buildings the HT voltage shall be either 11 or 6.6kV depending on the motor rating and quantity. The HT switchgear shall be either 11kV or 6.6kV.
90	Vol-IVB	General		Switchyard Layout Plan of exisitng Unit#6 is attached for reference.
91	Vol- V/ D5.3	50 OF 55	29.15	Read Cl.no. 29.15 as "Instrumentation& Control (I&C) Cables shall have the following size: 0.8 sq.mm –Stranded FS/FRLS Instrumentation cable 1.5 sq.mm – Stranded FS / FRLS Control cable "
92	Vol- V/ D5.4	17 OF 42	1.47.1	Read Cl.no. 1.47.1 as "Individual pair shielded & overall shield twisted pair copper cables shall be used for analog signals & overall shielded cables shall be used for digital signals. All these cables shall be armoured. All the insulation including overall sheath shall be FRLS quality. Ferruling indicating terminal numbers on termination side shall be followed. Colour coding shall be approved by Owner / Project Manager. Only sleeve type ferruling with printed terminal numbers shall be used. Cross ferruling shall be adopted."
93	Vol- V/ D5.6	1 OF 1	1.4	Read Cl.no. 1.4 as "Please refer to Vol.I, Section 2 , Cl.no. 3.1.7.4 with regard to the expenses to be incurred for arranging / imparting training."
94	Vol- V/ TABLE-8	8 OF 9	62	Read Sl.no. 62 as "Void"
95	Vol- V/ TABLE-13	19 of 40	4.4.1(d)	60 no A4 color Laser Printers to be read as - " 20Nos A4 color Laser printers and 40 Nos mono Laser printers."
96	Vol- V/ TABLE-13	19 of 40	5.5.1(b)	Against 20 Nos A4 colour Laser printer - 10Nos A4 colour laser printer and 10Nos mono laser printer are to be provided.
97	Vol- V/ TABLE-13	22 of 40	5.3.6	Read Cl.no. 5.3.6 as "Where ever required same user work stations (PCs) and printers will be used for MIS & CMMS (maintenance management system). Together with CMMS system total 110 nos user workstations shall be provided. "

Amendments on Tender Specifications 2x660 MW Super Critical Thermal Power Station, Stage V, Units 7 & 8 at Suratgarh, Rajasthan				
S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
98	Vol- V/ TABLE-13	23 of 40	5.5.1 (g)	Read Cl.no. 5.5.1(g) as "System cables, interconnecting cables to Station LAN switch etc. "
99	Vol- V/ TABLE-13	24 OF 40	6.2.2(r)	Read Cl.no. 6.2.2(r) as "Admin Building"
100	Vol- V/ TABLE-13	24 OF 40	6.2.8	Read Cl.no. 6.2.8 as " Void"
101	Vol- V/ TABLE-13	25 OF 40	6.2.12	Read Cl.no. 6.2.12 as "CMMS & MIS servers together with user workstations will reside on Station LAN. "
102	Vol - V		Drg no :5750A-580-SK-01, SH 1,2,3 & 4.	Minor corrections done in Plant Instrumentation and control system configuration diagram. Refer attached P2 version.
103	Vol - V		Drg no:5750A-580-SK-03	Minor corrections done in Computerised Manintenance Management & Management Information system. Refer attached P2 version.
104	Vol-VI/ D4.2	6 of 9	6.1	Clause(natural nallah) deleted
105	Vol-VI/ D4.5	5&6 of 57	2.3.2, 2.3.3, 2.4	Add- The drains shall be designed using RCC. The intensity of rain fall shall be considered as 40mm/hr or as per IMD records whichever is higher.
106	Vol-VI	General	-	For non plant buildings, Bidder to follow the sizing of L X B as per write-up in Vol-VI. However the total area requirement will be as per guidelines given in Vol-VI. For plant buildings, bidder to follow the process requirements keeping the sizes as indicated in the plot plan as minimum.
107	Vol- VI	2 of 9	1.15	Clause deleted
108	Vol-VI/ D4.2	3 of 9	1.27	No seperate buildings are required for following - i)Water testing building j) Coal sampling and oil testing building k) General laboratory l) Environment laboratory However the laboratories are to be provided as specified in the specifications else were .
109	Vol-VI/ D4.2	4 of 9	1.28	Following Non plant buildings are deleted - m) Separate Hostels with mess facility. n) A separate two storey building for railway staff.
110	Vol-VI/ D4.2	4 of 9	1.36	Clause may be read as -" In extension of Bituminous road along 1100E shall be extended from 2500S instead of 2100S as indicated in revised drawing.The 4m wide Bituminous road shall be provided between existing roads 1100E and 750E north side of proposed reservoiras indicated in revised drawing. "
111	Vol-VI/ D4.6	9 of 30	6.3.10	Amendment - Cl 6.3.10 Sh 9 of 30, Sec D 4.6 H ; The sentence "(b) fixed by bolting arrangement, with counter sunk bolts and slotted holes as indicated in relevant bid drawings", has been withdrawn.
112	Vol-VI/ D4.5	5 of 57	2.3.2	Peripheral roads shall be outside boundary wall. Road from existing Administration building to existing gate 2 is constructed by RVUN so excluded from bidders scope.
113	Vol-VI / D4.5	53 of 57	34	It is further clarified that contractor has also to comply the requirements of MOE&F for Rain Water Harvesting System as laid down in the environment clearance of the project issued by the MOE&F vide letter dated 23.5.2012 (copy enclosed)

Amendments on Tender Specifications 2x660 MW Super Critical Thermal Power Station, Stage V, Units 7 & 8 at Suratgarh, Rajasthan				
S. No.	Volume / Section	Sheet No.	Clause No.	Amendment by Owner / Consultant
114	Vol-VI	General		Green belt is to be developed by the EPC Contractor as per norms on 33% of the total plant area and in the ash dyke area. Species of trees to be planted shall be as per recommendations of M/s Cazri, Jodhpur. Contractor has also to comply the requirements of MOE&F as laid down in the environment clearance of the project issued by the MOE&F vide letter dated 23.5.2012 (copy enclosed)
115	Vol-VI/ D4.2	5 of 9	1.39	".....from IG Canal head works....." Shall be read as "..... from link canal of down stream of existing head works (located downstream IG main canal)....."
116	Vol-VI/ D4.5	43 of 57	28	".....from Indira Gandhi main canal" Shall be read as "..... from link canal of down stream of existing head works (located downstream IG main canal).....""
117	Vol-VII		TCE.5750-100-GA-1001	Revised plot plan is attached
118	Vol-VII		TCE.5750-100-GA-1001	Training centre indicated in plot plan drg is deleted.
119	Vol-VII	-	TCE.5750A-562-SK-1016-P1	River water system scheme is added to Vol-VII. Same scheme is enclosed alongwith this amendment.
120	Vol-VII	-	TCE.5750A-610-FD-1010-P4	Bidder to refer the latest Water balance diagram which is revised to Rev-P4. Same drawing is enclosed alongwith this amendment.
121	Vol-VII	-	TCE.5750A-563-FD-1013	Coal Handling System Revised drawing is attached.