



**AMENDMENT ON TECHNICAL SPECIFICATION
FOR DM PLANT**

**1X800 MW TSGENCO KOTHAGUEDEM TPS
STAGE –VII, PALONCHA**

SPECIFICATION NO.: PE-TS-410-163-A001

AMENDMENT NO # 3

REV. NO. 00

DATE: 11/08/2015

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The following modifications with respect to Technical Specification for **DM PLANT**, BHEL's Technical specification no PE-TS-410-163-A001 shall apply.

Bidder to note that existing clauses/page numbers as appearing in the specification stands deleted and clauses/page numbers as mentioned in "Modified to" column shall be applicable and complied by the bidder.

MODIFIED CLAUSES/PAGE NUMBERS.

SI no.	Vol. No.	Section/ Description	Clause no	Page no	Existing	Modified to																									
1.	IIB	C1	2.0, 1)	10 OF 630	Three (3) numbers (3X50%) (2Working+2Standby) DM Feed pumps along with motors, piping, valves, Fittings, instrumentation & all other accessories as required.	Three (3) numbers (3X50%) (2Working+1Standby) DM Feed pumps along with motors, piping, valves, Fittings, instrumentation & all other accessories as required.																									
2.	IIB	C1	2.0	10 OF 630	SCOPE OF SUPPLY (MECHANICAL)	In addition to the items as indicated in technical specification, following shall also be in Bidder's scope: All consumables, bulk chemicals like hydrochloric acid, sodium hydroxide, etc., required for pre commissioning, trial run, PG test till hand over of the plant shall be in the scope of the Bidder.																									
3.	IIB	C1	9.0, 3)	16 OF 630	EXCLUSIONS 3) All Chemicals.	EXCLUSIONS 3) Stand deleted.																									
4.	IIB	C1	--	24 OF 630	ANNEXURE-II INDICATIVE SUB-VENDOR LIST	In addition to the sub vendors as indicated in technical specification, following make of resin shall also be considered: <table><tr><th>SR. NO.</th><th>ITEM</th><th>SUPPLIERS</th><th>PLACE</th><th>REMARKS</th></tr><tr><td>1.0</td><td>RESIN</td><td>ROHM HASS</td><td></td><td></td></tr><tr><td></td><td></td><td>BAYER</td><td></td><td></td></tr><tr><td></td><td></td><td>DOW</td><td></td><td></td></tr><tr><td></td><td></td><td>PUROLITE</td><td></td><td></td></tr></table>	SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS	1.0	RESIN	ROHM HASS					BAYER					DOW					PUROLITE		
SR. NO.	ITEM	SUPPLIERS	PLACE	REMARKS																											
1.0	RESIN	ROHM HASS																													
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5.	IIB	C1	--	71 OF 630	DATA SHEET-A FOR DM PLANT	In addition to the details of other items, the Datasheet-A of Alkali transfer cum recirculation pumps & safety equipments (Annexure – A) has also been attached herewith for bidder's compliance.																									



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Sl no.	Vol. No.	Section/ Description	Clause no	Page no	Existing	Modified to
6.	IIB	C1	1.00.00, B) (i)	71 OF 630	(i) Location Clarified water pump sump. Depth of clear water sump is 4.5 meters.	(i) Location Clarified water pump sump. Depth of clear water sump is 10.0 meters.
7.	IIB	C1	15.00.00	87 OF 630	STRONGLY BASIC ANION EXCHANGERS (xii) Ion Exchange Resins a) Type Type-I and have macro-porous styrene-divinyl benzene matrix with quaternary ammonium (minimum 95%) type functional group. (gel type with particle size 0.5 to 0.65 mm)	STRONGLY BASIC ANION EXCHANGERS (xii) Ion Exchange Resins a) Type Type-I and have macro-porous styrene-divinyl benzene matrix with quaternary ammonium (minimum 95%) type functional group.
8.	IIB	C1	--	114 OF 630	P&ID FOR DM PLANT	In addition to the requirements as indicated in the P&ID FOR DM PLANT attached in the Technical Specification, following additional requirements also need to be provided by the bidder: 1. Bidder to provide one number tap off of 80 NB along with diaphragm pneumatic type isolation valve, fittings, flanges etc. The location of this tap off shall be at outlet header of potable water pumps. Other details of piping, valves, fittings, flanges etc. shall be as indicated in the Technical Specification.
9.	IIB	C1	2.33.00	140 OF 630	All consumables, bulk chemicals like hydrochloric acid etc., required for pre commissioning, PG test till taking over along with topping up required for 3 months of operation shall be in the scope of the Bidder.	All consumables, bulk chemicals like hydrochloric acid, sodium hydroxide, etc., required for pre commissioning, trial run, PG test till hand over of the plant shall be in the scope of the Bidder.
10.	IIB	C1	4.03.00	210 OF 630	Service Demineralised Water Recommended Material of Construction Carbon Steel (inside rubber lined)	Service Demineralised water Piping less than and equal to 50 mm NB. Demineralised water piping for sizes equal to greater than 65 mm NB. Recommended Material of Construction Stainless Steel as per ASTM A- 312 Gr. 304. Size- as per schedule 40 ANSI B36.10 Stainless steel as per ASTM A-312 Gr. 304. Size-upto 150 mm NB as per schedule 10S (minimum), ANSI B-36.10.



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11.	IIB	C1	4.14.02	224 OF 630	Butterfly valves shall be of double flanged or lugged wafer type of low leakage rate conforming to AWWA-C 504 class 150 (min.) or BS-5155 PN 10 / class 150 (minimum)	Butterfly valves shall be of double flanged type of low leakage rate conforming to AWWA-C 504 class 150(minimum).
12.	IIB	D1	--	--	--	In addition to the requirements in the Technical specification, general technical requirement for Pressure and storage vessels (Annexure – B) has also been attached herewith for bidder's compliance.
