



**AMENDMENT ON SPECIFICATION FOR  
EFFLUENT TREATMENT PLANT-YADADRI**

**SPEC. NO.: ROS 6278, Rev:0**

**AMENDMENT NO # 1**

**DT: 01.10.2021**

The following modifications with respect to Technical Specification, ROS: 6278 for **Effluent treatment plant** shall apply. This shall be read along with ROS 6278 Rev:0 and other amendments/ corrigendum's released from time to time.

Bidder to note that existing clauses/details as appearing in the specification stands deleted and clauses/details as mentioned in "Modified to or Read as" column shall be applicable and complied to by the bidder. All other details of BHEL's specification ROS: 6278 remain unchanged.

**MODIFIED CLAUSES/PAGE NUMBERS**

Sl. No.	Clause No.	Page No.	Existing Clause/details	Modified to or Read as
1.	21. Datasheet-A	578 of 1251	21. RO system xiii) Flux decline coefficient/ year: 5% xiv) Salt passage increase factor (SPIF): 10% per year	21. RO system xiii) Flux decline coefficient/ year: <b>5% (min.)</b> xiv) Salt passage increase factor (SPIF): 10% per year <b>(min.)</b>
2.	2.6	536 of 1251	Product water quality 1. Clarifier outlet: 2. Turbidity: <10 NTU	Product water quality 1. Clarifier outlet: 2. Turbidity: <b>&lt;20 NTU</b>
3.	2.1	534 of 1251	A chemical storage area shall be provided to handling, storage, solution preparation and injection of chemicals for treatment of waste water.	<b>i) Chemical house &amp; storage</b> 1) 30 days storage of chemicals shall be considered. 2) Non liquid chemicals shall be stored in chemical house. 3) Chemical house shall be used for storage, solution preparation and injection of chemicals for treatment of waste water.



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				<p>4) Liquid chemicals shall be stored in carbuoys in chemical house if monthly consumption is less than 5cu.m and Bulk chemical storage tanks (for 30 days storage), unloading pumps, etc. shall be provided for chemicals having monthly consumption equal to or more than 5cu.m.</p> <p>5) Additional chemical dosing (other than those specified in tender) if considered by Bidder shall be provided with necessary bulk storage (as per sl.1 to 4 above), unloading pumps (if applicable), preparation tanks, dosing tanks, dosing pumps &amp; instrumentation inline with other chemical dosing systems as per tender specification.</p>
4.	4.0	537 of 1251	PLC is a Programmable Automation unit consisting of a Processor. PLC has I/O Modules, redundant Power Supply Modules, redundant communication interface modules, Ethernet networking components etc., One PC with 24" monitor & key board is provided as Operator workstation and One PC is provided for Operator and Engineering workstation. One Large video screen and Mimic back up panel with push buttons, lamps, annunciation windows	PLC is a Programmable Automation unit consisting of a Processor. PLC has I/O Modules, redundant Power Supply Modules, redundant communication interface modules, Ethernet networking components etc., RIO panels are provided for remotely located sumps. Please refer Control System for Mechanical Auxiliary Packages (PE-DM-417-145-I900) and ETP PLC



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			are also provided. One printer is also provided. RIO panels are provided for remotely located sumps. Please refer Control System for Mechanical Auxiliary Packages (PE-DM-417-145-I900) and ETP PLC configuration 4-WT-060-01143 for details.	configuration 4-WT-060-01143 for details.
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