

**BALMER LAWRIE & CO. LTD
SBU LEATHER CHEMICALS,
32, SATTANGADU VILLAGE
MANALI, CHENNAI 600 068**

PHONE: 044-25946543/500

FAX: 044-25941156

Ref : SBULC/CAP/10/WATER SOFTENER/043/1718/Corrigendum

Date: 16.05.2017

TO: All Eligible Parties

Dear Sir,

CORRIGENDUM FOR TENDER

Ref: Tender Ref: SBULC/CAP/10/WATER SOFTENER/043/1718 dated 06.05.2017

This corrigendum is being issued to the technical specifications of the tendered Water Softener. The details of the corrigendum/modifications of the specifications are given in Annexure of pages 4 of 4.

The due date of the tender is being extended from 22.05.2017 17:30 HRS to 29.05.2017 17:30 HRS

All other terms and conditions of the enquiry remains the same

Yours faithfully,

FOR BALMER LAWRIE & CO. LTD

**ARUN A
Senior Manager (SCM)**

CORRIGENDUM TO TECHNICAL SPECIFICATION

WATER SOFTENER PLANT-1 No

SL NO	DESCRIPTION	BL REQUIREMENT/ SPECIFICATION	CORRIGENDUM
1	Qty	1 No	
2	Resin capacity	400 Lts	
3	Softener Capacity :	6.0KL/hour	
4	Operation Between Regeneration(OBR)	150 KL (APPROX)	OBR-150 KL TO BE READ AS 44 KL (Approx)
5	Service	Inlet for Boiler Water	
6	<u>RESULTS OF ANALYSIS (Assumption)</u>		
a	Parameters	Design Values	
b	pH	7.8	
c	Turbidity	01NTU	
d	Total Dissolved Solids	1500 mg/lit	
e	Total Hardness	700 mg/lit	
7	<u>SOFTENER OUTLET QUALITY</u>		
a	pH	6.0-7.0	
b	Total Hardness - Mg/l	< 5	
8	<u>DESIGN BASIS</u>		
a	Process Water Requirement :	5 KL/hour	
b	Recovery :	100%	
c	Softener Capacity :	6 KL/hour	
d	Operating Hours :	6 hrs/day	
e	OBR	28 hrs	OBR-28 HRS TO BE READ AS 7 HRS
9	<u>FEED with motor</u>		
a	Quantity :	2 nos.(1 Water+ 1 Stand by)	
b	Type :	Horizontal Centrifugal	
c	Flow Rate :	6 Cu.m/hr	
d	Head :	25 MWC	
e	Material of Construction :	SS 304 Impeller with CI Body	
f	Make :	Johnson /Kirloskar / Equivalent	
g	Motor	Vendor to specify	
h	Motor make	Kirloskar/Crompton greaves/Bharath Bhijilee/ Equivalent	
i	KW & Rpm	Vendor to specify	

SL NO	DESCRIPTION	BL REQUIREMENT/ SPECIFICATION	CORRIGENDUM
10	<u>MULTI GRADE FILTER</u>		
a	Make :	Vendor to specify	
b	Qty	One	
c	Type :	Vertical, Cylindrical	
d	Flow rate :	6000 LPH	
e	Material of construction :	Mild steel Rubber Lined (MS 5 MM THK + RL 3 MM THK)	
f	Height of the Shell :	1500 MM	
g	Dia. Of the Shell :	600 MM	
h	Inlet / Outlet Connection :	40 MM	
i	Piping :	40 MM MSRL & Multi port Valve	
j	Minimum Working Pressure :	1 Kg / Sq. Cm	
h	Maximum Working Pressure :	3 Kg / Sq. Cm	
i	Top & Bottom Distribution method :	PP Strainer	
j	Media :	Pebbles (Various Sizes)/Quartz Sand & Activated Carbon	
11	<u>SOFTENER</u>		
a	Qty	One	
b	Type :	Vertical, Cylindrical	
c	Flow rate :	6000 LPH	
d	Material of construction :	Mild steel Rubber Lined (MS 5 MM THK + RL 3 MM THK)	
e	Height of the Shell :	1850 MM	
f	Dia. Of the Shell :	650 MM	
g	Inlet / Outlet Connection :	40 MM	
h	Piping :	40 MM MSRL	
i	Valve Operation :	Multi port Valve	
j	Minimum Working Pressure :	1 Kg / Sq. Cm	
k	Maximum Working Pressure :	3 Kg / Sq. Cm	
l	Top & Bottom Distribution method :	PP Strainer	
m	Resin :	Ion Exchange Resin/ Reputed make	
n	Volume of Resin :	400 Litres (Approx)	

SL NO	DESCRIPTION	BL REQUIREMENT/ SPECIFICATION	CORRIGENDUM
12	<u>REGENERATION TANK</u>		
a	Quantity :	1 Nos.	
b	Volume Of tank :	200 Litres	VOLUME OF THE TANK: 200 Litres TO BE READ AS 300 Litres
c	Type :	Cylindrical	
d	Make :	Sintex / Infra	
e	MOC :	HDPE	
13	<u>REGENERATION PUMP</u>		
a	Quantity :	1 Nos.	
b	Volume Of pump :	200 Lit / Hr	
c	Type :	Monoblock	
d	Make :	Johnson /Kirloskar / Equivalent	
e	MOC :	SS 304 / PP	
14	<u>INTERCONNECTING PIPELINES</u>		
a	Quantity :	1 Lot.	
b	Duty :	Connecting all tanks, pumps, filters within the battery limit	
c	MOC :	MS & UPVS /etc.,	
d	Make :	JSW / Supreme / Equivalent	
e	Electrical Control Panel :	1 SET with Starters and Switches	
f	Instrumentations :	1 SET of complete Instruments as Required	
15	Battery Limit		
		Piping from Raw water collection tank.	
		Piping Up to Softener water feed tank	
		Electrical Scope from Supplier control Panel to all motors	
		Feed power line will be supplied to supplier control panel by BL	

SL NO	DESCRIPTION	BL REQUIREMENT/ SPECIFICATION	CORRIGENDUM
16	SCOPE OF THE SUPPLIER		
		All the Softener Plant Equipments as per the list given above in the unit size and specification.	
		Electrical works like motor control center, starters and all kinds of power cabling to the motors, motor starters & Earthing, etc.,	
		Piping from raw water collection tank to softener water storage tank	
		All consumables like chemicals and lubricants required for the initial start up and normal operating of the plant up to 7 days of operation	