

<b><u>BNPM/NCB/UF/046</u></b> <b><u>0/2021-22, dated</u></b> <b><u>03.12.2021</u></b>	<b>BANK NOTE PAPER MILL INDIA PRIVATE LIMITED</b>  <b>DESIGN, SUPPLY, INSTALLATION, COMMISSIONING, PERFORMANCE TEST OF 70 m<sup>3</sup>/ Hr ULTRA FILTRATION SYSTEM AT BNPM PLANT, MYSURU</b>  <b>CORRIGENDUM NO. 2</b>	<b>SHEET 1 OF 1</b>
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**CORRIGENDUM No. 2, DATED 18 .01.2022**

**FOR**

**TENDER NO. BNPM/NCB/UF/0460/2021-22, dated 03.12.2021**

**DESIGN, SUPPLY, INSTALLATION, COMMISSIONING, PERFORMANCE TEST OF 70 m<sup>3</sup>/ Hr  
ULTRA FILTRATION SYSTEM AT BNPM PLANT, MYSURU**

<b>BNPM/NCB/UF/046</b> <b>0/2021-22, dated</b> <b>03.12.2021</b>	<b>BANK NOTE PAPER MILL INDIA PRIVATE LIMITED</b>  <b>DESIGN, SUPPLY, INSTALLATION, COMMISSIONING,</b> <b>PERFORMANCE TEST OF 70 m<sup>3</sup>/ Hr ULTRA FILTRATION</b> <b>SYSTEM AT BNPM PLANT, MYSURU</b>  <b>CORRIGENDUM NO. 2</b>	SHEET 1 OF 1
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**1.0 SCOPE OF THIS CORRIGENDUM**

- 1.1 This corrigendum dated 18.01.2022, is issued for,
- (a) The tender due date extension for submission of tender floated on 03.12.2021
- (b) Clarification of pre bid meeting points
- 1.2 Except for details mentioned herein, all other details contained in the tender no. BNPM/NCB/UF/0460/2021-22 Dated: 03.12.2021, subsequent corrigenda shall remain applicable and unchanged.

**2.0 REVISION TO THE TENDER:-**

- 2.1 Existing tender submission due date based on corrigendum 1 is revised as
- |   |                         |
|---|-------------------------|
| Closing date and time for receipt of tenders      | 01-02-2022 - 1100 Hours |
| Date and time of opening of Techno-commercial bid | 01-02-2022 - 1200 Hours |

**2.2 CLARIFICATION TO THE TENDER:**

Sr. No.	Attribute	Description
1.	<b>Reference Clause</b>	Sec – III(SIT), Sl 7, Page 18
	<b>Tender Description</b>	<b><u>Earnest Money Deposit (EMD).</u></b> EMD is not applicable. Bid Security Declaration should be submitted as per Annexure C.
	<b>Bidders Query</b>	We understand that the EMD is not applicable for this tender against the submission of Bid Securing Declaration as per the format – Annexure C, while this format has a mention of – MSE Bidders in it. Kindly clarify if the Non – MSME bidders can use the same format.

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Sr. No.	Attribute	Description
		Kindly confirm.
	<b>Clarified as</b>	Bid Securing Declaration, as per Annexure C, is to be submitted by all the bidders
2.	<b>Reference Clause</b>	(i) Sec I (NIT), Clause 9, Page 6 (ii) Sec IX (Qualification/ Eligibility Criteria,), Page 49
	<b>Tender Description</b>	Performance of the bidder in executing the previous contracts/ orders of BNPMIPL shall be taken into account during technical evaluation. The bids of the tenderers who were unsuccessful in completing or delayed the previous orders of BNPMIPL without any valid reason are liable to be ignored/ rejected.
	<b>Bidders Query</b>	We humbly request you to kindly elaborate this clause in order to provide more clarity on the same. Also kindly provide the measurable parameters on the basis of which the past performance of bidders shall be evaluated.
	<b>Clarified as</b>	As per Tender.
3.	<b>Reference Clause</b>	Sec IX (QUALIFICATION/ ELIGIBILITY CRITERIA), Experience & Past Performance, Page 49
	<b>Tender Description</b>	The bidder should have supplied, installed and commissioned at least one UF plant of minimum 55 m <sup>3</sup> /h capacity during last five years ending on 31.10.2021.
	<b>Bidders Query</b>	We understand that the experience of any <b>Indian Bidder having Global Reference (Out of India)</b> shall be considered for meeting the Pre-Qualification Criteria for this tender. Kindly confirm.
	<b>Clarified as</b>	As per Tender. BNPM may accept documentary evidence irrespective of geographical reference.
4.	<b>Reference Clause</b>	Sec IX (QUALIFICATION/ ELIGIBILITY CRITERIA), Experience & Past Performance, Page 49
	<b>Tender Description</b>	The bidder should have supplied, installed and commissioned at least one UF plant of minimum 55 m <sup>3</sup> /h capacity during last five years ending on 31.10.2021.

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Sr. No.	Attribute	Description
	<b>Bidders Query</b>	<p>We humbly request you to kindly consider the UF Plants executed by the bidder within the last 6 years for meeting the Pre-Qualification Criteria for this tender.</p> <p><b><i>Following is the suggested Clause:</i></b>  The bidder should have supplied, installed and commissioned at least one UF plant of minimum 55 m<sup>3</sup>/h capacity during <b>last six years</b> ending on 31.10.2021.</p>
	<b>Clarified as</b>	As per Tender
5.	<b>Reference Clause</b>	Sec IX (QUALIFICATION/ ELIGIBILITY CRITERIA), Experience & Past Performance, Page 49
	<b>Tender Description</b>	The bidder should have supplied, installed and commissioned at least one UF plant of minimum 55 m <sup>3</sup> /h capacity during last five years ending on 31.10.2021.
	<b>Bidders Query</b>	<p>ALTERNATIVELY:  Since the UF Plant outlet parameters are similar to that of an MBR Plant, we humbly request you to kindly consider the <b>MBR (Membrane Bio – Reactor)</b> Technology based Plants executed by the bidder within the last 5 years for meeting the Pre-Qualification Criteria for this tender.</p> <p><b><i>Following is the suggested Clause:</i></b>  The bidder should have supplied, installed and commissioned at least one <b>MBR (Membrane Bio – Reactor)</b> based Plant of minimum 55 m<sup>3</sup>/h capacity during last five years ending on 31.10.2021.</p>
	<b>Clarified as</b>	As per Tender
6.	<b>Reference Clause</b>	Sec IX (QUALIFICATION/ ELIGIBILITY CRITERIA), Experience & Past Performance, Page 49
	<b>Tender Description</b>	<p><b><u>Documents required in support of the Experience &amp; Past Performance.</u></b></p> <p>ii. Satisfactory work completion certificate issued by the client of the bidder</p>

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Sr. No.	Attribute	Description
		which includes supply, installation & commissioning of the corresponding work order/ agreement (Ref above point i) as issued by client of the bidder.
	<b>Bidders Query</b>	We understand that if the Performance Certificate issued by the Purchaser has a mention of the Date of Completion of Project in it, it shall suffice the purpose of Work Completion Certificate. Kindly confirm.
	<b>Clarified as</b>	As per Tender
7.	<b>Reference Clause</b>	Sec IV (GCC), Clause 24, Liquidated Damages, Page 27
	<b>Tender Description</b>	<b>Liquidated damages.</b> Subject to GCC clause 28, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, BNPM shall, without prejudice to other rights and remedies available to BNPM under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the 0.5% (Half) percent (or any other percentage if prescribed in the SCC) of the delivered price of the delayed goods and/ or services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% (or any other percentage if prescribed in the SCC) of the delayed goods' or services' contract price(s). During the above-mentioned delayed period of supply and/ or performance, the conditions incorporated under GCC sub clause 23.4 above shall also apply.
	<b>Bidders Query</b>	We request you to kindly keep the Liquidated Damages for delay @ 0.5% per week of Non-Supplied / Delayed portion of the contract to a maximum amount of 5% of Non-Supplied / Delayed portion of the contract. Kindly confirm.
	<b>Clarified as</b>	As per Tender
8.	<b>Reference Clause</b>	Sec VI (LIST OF REQUIREMENTS), Page 38
	<b>Tender Description</b>	<b>Required Completion Schedule.</b> Successful bidder shall successfully complete the project within 9 months from the date of issue of LOI/ Order/ Contract whichever is earlier.

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Sr. No.	Attribute	Description
	<b>Bidders Query</b>	In view of the nature and size of this project, we humbly request you to kindly keep the project schedule as 12 months. Kindly confirm.
	<b>Clarified as</b>	As per Tender
9.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Earthing system, page 43
	<b>Tender Description</b>	Earthing System along with necessary Earth bus and further cabling for the motors shall be done by the bidder. (Only in MCC room Grid will be provided by Purchaser, further tap off shall be taken by bidder).
	<b>Bidders Query</b>	We understood that Above Ground Earthing is in Bidder's Scope & below Ground Earthing is in Purchaser's Scope. Please Confirm.
	<b>Clarified as</b>	Scope involves only above ground earthing (double earthing) and it is in bidder scope.
10.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Clause VII(d), page 44
	<b>Tender Description</b>	Control & Instrumentation Junction boxes, local pushbutton stations shall have weather protection conforming to Min IP 65 (Wherever the service is hazardous, suitable ex-proof enclosures shall be provided as per area hazardous classification).
	<b>Bidders Query</b>	We understood that UF Plant is in SAFE Area only. So, there is no requirement of Ex-proof Enclosures for the same. Please Confirm.
	<b>Clarified as</b>	As per Tender
11.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Power Cables & Instrumentation Cables, page 46
	<b>Tender Description</b>	Polycab / Thermocables / KEI / RPG / Universal / Uday Pyro / Nicco / Radiant Cables / Brooks Cables.
	<b>Bidders Query</b>	Please give approval on "Gemscab & Avocab" make Power Cables, Control Cables & Instrumentation Cables.
	<b>Clarified as</b>	As per tender

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Sr. No.	Attribute	Description
12.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Controller, IO cards, Communication modules, page 46
	<b>Tender Description</b>	GE (Existing controller: Rx3i).
	<b>Bidders Query</b>	Single make is given for PLC System. So please give approval on below make also: Honeywell / Siemens / Schneider / ABB / Allen-Bradley.
	<b>Clarified as</b>	As per Tender
13.	<b>Reference Clause</b>	Sec VI (LIST OF REQUIREMENTS), Required Completion Schedule, page 38
	<b>Tender Description</b>	Successful bidder shall successfully complete the project within 9 months from the date of issue of LOI/ Order/ Contract whichever is earlier.
	<b>Bidders Query</b>	We understand that 9 months including commissioning activities and PG test (72 Hrs) of the UF system. Please clarify/confirm the same.
	<b>Clarified as</b>	As per Tender
14.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 39
	<b>Tender Description</b>	Feed Flow- (a) 1400 m <sup>3</sup> /day (minimum), operating hours (time in filtration) minimum 20 hours per day.  (b) 70 m <sup>3</sup> /hr (minimum) to be guaranteed for a period of minimum 3 years from the date of successful commissioning & PGT.  Recovery - 90 % (minimum) to be guaranteed for a period of minimum 3 years from the date of successful commissioning & PGT.
	<b>Bidders Query</b>	In line with technical specification, The feed flow = 1400 m <sup>3</sup> /day (i.e. 70 m <sup>3</sup> /hr @ 20 Hrs operating Hrs) & minimum recovery: -90 %. Hence the permeate/product flow rate will be 70 m <sup>3</sup> /hr X 90 % (minimum)

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Sr. No.	Attribute	Description
		<p>= 63 m<sup>3</sup>/hr.</p> <p>As per our understanding, the existing RO capacity is 65 m<sup>3</sup>/hr. Hence UF recovery must be 93 % (minimum) i.e 70 m<sup>3</sup>/hr X 93 % = 65 m<sup>3</sup>/hr to meet RO feed capacity.</p> <p>Please give your concurrence and/or clarification on the same.</p>
15.	<b>Clarified as</b>	As per tender.
	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 39
	<b>Tender Description</b>	UF Feed Water parameters:
	<b>Bidders Query</b>	<p>The values of COD, BOD, TSS and Turbidity as given in the feed water quality are little bit high for UF system, which may increase frequency of cleaning in UF system and thereby it will increase the chemical consumption in proportionally. This is mainly due to higher organic fouling of the membranes.</p> <p>Moreover as per clause of general terms and condition (Sr.No-3, Page-40), A tolerance level of + 10 % shall be considered by the bidder on the above mentioned feed water parameters while designing the system</p> <p>In view of above, any bidder has to design UF system with higher organic load, higher TSS and turbidity, which will ultimately be affecting the CAPEX and OPEX of the plant.</p> <p>Hence it is requested to re confirm each parameters with respect to the source of inlet feed water and kindly also share the source of inlet feed water with us.</p>
16.	<b>Clarified as</b>	As per tender. However, bidder may visit the site for understanding scope of work.
	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Operational requirement of UF system, Sr 8, page 40



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Sr. No.	Attribute	Description
	<b>Tender Description</b>	Minimum warranty for the UF membrane module - 3 years absolute warranty (any UF module with more than 5% fibres that fail during integrity test should be replaced by supplier at no additional cost to BNPM) from the date of successful commissioning & PGT.
	<b>Bidders Query</b>	We understand that the UF membrane module 3 years warranty from the date of successful commissioning & PGT will be on prorota basis. Please clarify/confirm the same.
	<b>Clarified as</b>	Warranty is not prorota basis, its absolute warranty as per tender.
17.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK)
	<b>Tender Description</b>	UF Backwash water
	<b>Bidders Query</b>	<p>There is no clarity of battery limit for UF backwash water.</p> <p>We presume that UF backwash water will be discharged near to drain trench going to ETP plant And/ OR to any backwash sump pit (New sump pit to be constructed by client) near the UF plant (within 5-10 mtr distance from UF skid).</p> <p>From sump pit the backwash water will be delivered to existing ETP with the help of backwash transfer pump. The sump pit, backwash transfer pump along with associated piping, valves, instrument shall be in the client scope. Kindly clarify/confirm the battery limit of UF backwash water with proper clarity so as bidder will consider accordingly.</p>
	<b>Clarified as</b>	UF backwash shall be routed to the backwash water tank near UF/RO Shed. Bidder may visit site for understanding scope of work.
18.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, Sr 11, page 41
	<b>Tender Description</b>	First fill of all chemicals/consumables will be in the scope of the bidder.
	<b>Bidders Query</b>	As per general terms and conditions, bidder has to consider/supply the first fill of all chemicals/consumables during PG test (72 Hrs i.e. 3 days) only.

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Sr. No.	Attribute	Description
		Please give your concurrence on the same
	<b>Clarified as</b>	As per Tender
19.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, Sr 14 &15, page 41
	<b>Tender Description</b>	14. Bidder has to design the system so that it shall be accommodated in the existing UF-RO plant, Bidder has to visit the site prior to bidding in order to understand the complete scope of work and check the feasibility of the installing the new UF system in the existing UF-RO plant. 15. Bidder has to submit the system plan/ layout with clear area requirement of the new UF plant along with the technical bid.
	<b>Bidders Query</b>	Kindly provide the GAD drawing of existing UF-RO plant building so as we can try to accommodate the NEW UF skid in the existing building and will prepare layout accordingly and can submit the same along with technical bid.
	<b>Clarified as</b>	UF RO shed is under expansion to accommodate proposed UF system. However, bidder may visit site to understand the scope of work.
20.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, Sr 19, page 41
	<b>Tender Description</b>	The bidder is required to provide differential pressure transmitter with pressure tapings across the 100 micron bag filter.
	<b>Bidders Query</b>	UF vendor is strongly suggested the micron rating 150-200 micron of basket strainer/ filter, which is most suitable and also reduce the choking tendency in compare to 100-micron rating of basket strainer which is not advisable. Hence kindly give your approval for 150-micron OR 200 -micron rating of basket strainer.
	<b>Clarified as</b>	As per Tender
21.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, page 44 Sr VII. Bidder's scope of supply, erection, testing and commissioning of Control and Instrumentation equipment, materials, field construction & commissioning services shall include the following.

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Sr. No.	Attribute	Description
	<b>Tender Description</b>	c) Proposed Instrument sensing, transmission, measuring system shall be of latest Microprocessor based/solid state electronic type with signal transmission in Current mode with 4 - 20 mA level except for local instruments. All transmitters shall be SMART type with HART protocol. All instruments shall be suitable for use in hot, humid, tropical & dusty climate, IP rating required is Min IP65. d) Control& Instrumentation Junction boxes, local pushbutton stations shall have weather protection conforming to Min IP 65 (Wherever the service is hazardous, suitable ex-proof enclosures shall be provided as per area hazardous classification).
	<b>Bidders Query</b>	Proposed UF plant are located/ classified under the SAFE AREA. Hence All instruments and motors shall be provided as per SAFE area classification only and not for Hazardous area/ not flame proof type/ not intrinsically safe type. Kindly give your concurrence on the same.
	<b>Clarified as</b>	Yes, safe area
22.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 45
	<b>Tender Description</b>	IX. The UF system shall be suitable to run in AUTO mode from the new PLC system. Required programming, interfacing has to be carried out by the bidder. Necessary process interlocks, safety interlocks shall be incorporated in the system for safe operation of the equipment.  X. Performance Guarantee Test: The system shall be run in AUTO mode uninterruptedly for at least 72 hours with rated output (Guaranteed UF outlet parameters as mentioned in Technical Specification, Sec -VII) to mark the successful commissioning and PG Test of the system.
	<b>Bidders Query</b>	The UF system shall be suitable to run in AUTO mode from the new PLC system and the system shall be run in AUTO mode uninterruptedly for at least 72 hours with rated output. However kindly note that chemical preparation and dosing system for UF System will be manual at all times.

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		Kindly give your concurrence on the same.
	<b>Clarified as</b>	The dosing system to be automated. The chemical filling in dosing tank shall be manual.
23.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XII, page 45
	<b>Tender Description</b>	Approved Makes for Dosing Pumps - Milton Roy/ Grundfos/ Hiedelberg Prominent.
	<b>Bidders Query</b>	Please approve below mentioned additional makes for dosing pump which is also reputed & approved by most of client/consultant includes IOCL, HPCL, TCE, MND etc. <i>S.J. Industry/ Positive metering/ Shaptools</i>
	<b>Clarified as</b>	As per tender
24.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XII, page 45
	<b>Tender Description</b>	Approved makes for Valves (including NRV) - L&T/ Audco/ Advance/ Crane/ BDK/ KSB.
	<b>Bidders Query</b>	Please approve below mentioned additional makes for Valves (including NVR) which is also reputed & approved by most of client/ consultant includes IOCL, HPCL, TCE, MND, KPCL etc. <i>Intervalve/ GM engineering/ Hawa/ Norflow control</i>
	<b>Clarified as</b>	As per tender
25.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XII, page 46
	<b>Tender Description</b>	Approved makes for Pneumatic ON/OFF valves (with Manual Override – hand wheel option) - Rotex/ Festo/ AIRA/ Asco/ Metso/ Samson
	<b>Bidders Query</b>	The vendors which are listed under the pneumatic On/ Off valves are mostly manufactures & suppliers of SOV, Actuators and valves accessories & valves parts etc. (not complete valve). Hence it is requested to approve the below mentioned makes for Pneumatic

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Sr. No.	Attribute	Description
		On/Off valves (with manual override option) which is also reputed & approved by most of client/consultant includes IOCL, HPCL, TCE, MND, KPCL etc. <i>Intervalve/ GM engineering/ Hawa/ Norflow control</i>
	<b>Clarified as</b>	As per tender
26.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XIV, Civil Work, page 46
	<b>Tender Description</b>	<b>Scope of Work.</b> 1. All civil works for the UF system shall be in the scope of BNPM. 2. Bidder shall provide foundation and other civil related details and drawing for the equipment supplied.
	<b>Bidders Query</b>	As the entire civil is in the client scope. Hence Puddle pipes, puddle flanges, insert plate, Platform cum Handrail & Ladders for all civil tanks/building/Pit etc. will also be in the client scope. Kindly give your concurrence on the same.
	<b>Clarified as</b>	Civil work is in BNPM scope but the structural platform/ladder to access equipment will be in scope of bidder. The structural support for pipelines and cable trays will be in scope of the bidder.
27.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	Bidder will consider the following battery limit at inlet/outlet for UF plant. (1) Inlet - At suction of UF feed pump (maximum 5 m piping distance from UF feed tank), Kindly provide the tentative distance from UF feed tank to UF plant to be located for calculating piping cost. (2) Outlet - At inlet of UF permeate water storage tank/ RO feed tank. UF permeate water transfer pump along with its piping and valves will not be in the bidder scope. If this will in the client scope then Kindly provide the tentative distance from UF permeate water storage tank to RO plant to be

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Sr. No.	Attribute	Description
		located for calculating piping cost. Please clarify/ confirm the same.
	<b>Clarified as</b>	(1) Inlet - From the puddle flange installed on the gardening water tank (TET1 / TET3), The vendor has to supply the manually operated valve to isolate the puddle flange/ tank from the UF feed pumps (Please note that this valve is to be provided in addition to the valves provided in UF feed pump suction). (2) Outlet- At inlet of UF permeate water storage tank/ RO feed tank (i.e. till the puddle flange provided on UF permeate tank). The isolation valve on the puddle flange also will be in the scope of bidder. UF permeate transfer pump, its pipelines are not in the scope of bidder. Whereas the backwash pump, pipelines with fittings/ accessories and supports will be in scope of bidder.
28.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	Bidder will consider the following battery limit of service water and Instrument air for UF plant. <ul style="list-style-type: none"> <li>Service water - Shall be provided by the client at one point nearest to UF plant (maximum 10 m distance from UF plant/ UF skid)</li> <li>Instrument Air - Shall be provided by the client at one point nearest to UF plant (maximum 10 m distance from UF plant/ UF skid)</li> </ul>
	<b>Clarified as</b>	Tapping shall be taken from main header available near UF/ RO Shed the distances may be measured during site visit.
29.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, page 41
	<b>Tender Description</b>	Pressure gauges (glycerine filled) of appropriate range shall be provided in bag filter (inlet and outlet), UF feed, UF permeate, UF reject and reject side of

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Sr. No.	Attribute	Description
		all stages. Online pH meter and conductivity meter to be provided in UF feed and permeate. Electromagnetic Flowmeters to be provided in UF feed, UF reject and UF permeate line (By pass arrangement should be available for each of the flow meters for easy maintenance). Pressure transmitters are to be provided in UF feed reject and UF permeate lines. All the above equipment shall be connected to the PLC.
	<b>Bidders Query</b>	Bidder will follow and supply the instruments as listed out under the Sr.No 19 of general terms & conditions. Please confirm the additional requirement of COD/ BOD analyzer/ meter at either inlet Or at outlet shall be considered by the bidder or Not. This clarification is necessary to bring all bidders on the same platform.
	<b>Clarified as</b>	There is no Additional requirement of COD/BOD analyser/meter.
30.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	What is the source of water?
	<b>Clarified as</b>	Paper and Pulp treated effluent water
31.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK)
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	If, water is having any fiber content or not.
	<b>Clarified as</b>	Generally not present. As mentioned in clause no 2 of section VII of tender "Bidder is required to separately analyze the feed water samples to confirm various parameters."
32.	<b>Reference</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK)

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Sr. No.	Attribute	Description
	<b>Clause</b>	
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	Submerged UF can be used instead of that.
	<b>Clarified as</b>	As per tender only
33.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK)
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	Please Specify the Gross Design flux at not more than 60 LMH. Based on our 30 years experience in providing UF, RO plants, for Effluent water, it is not recommended to Design UF system with more than 60 LMH for your application. Also various Govt PSU Units like NTPC, BHEL for similar UF application, follow this max limit of flux. Few tender references with highlighted technical specification showing upper limit on flux is attached for your reference (Attachment 1). When maximum is not mentioned, there are following disadvantages 1. Vendors with a more risky, aggressive, purely commercial approach in eagerness to be L1 may design UF system with very aggressive flux of upto 100 LMH, which may work for PGTR, but will necessarily not be sustainable in the long term, which can have adverse effect on plant running. 2. By doing above, you have to deal with a plant with requires much higher maintenance and more frequent membrane replacement. 3. By allowing above, experienced Vendors, with a sustainable and customer first approach, operating at <60 LMH, allocating for the correct number of membranes, might be unfairly disadvantaged from L1 status. Considering above please add max limit for flux on the higher side.
	<b>Clarified as</b>	As Per Tender
34.	<b>Reference</b>	Sec IX (QUALIFICATION/ ELIGIBILITY CRITERIA) Experience & Past



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Sr. No.	Attribute	Description
	<b>Clause</b>	Performance, page 49
	<b>Tender Description</b>	iii) Satisfactory performance certificate as issued by client, atleast one year after the date of commissioning of the system against Corresponding work order/ agreement.
	<b>Bidders Query</b>	We would like to highlight that the satisfactory performance certificates are issued after the satisfactory trial runs, so this requirement of one year after commissioning may be removed, as satisfactory performance certificates has issued by client against corresponding.
	<b>Clarified as</b>	As per tender
35.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Clause 14, page 41
	<b>Tender Description</b>	Bidder has to design the system so that it shall be accommodated in the existing UF-RO plant.
	<b>Bidders Query</b>	We would like to request you for the layout plan and key plan drawings of existing plant, for better understanding and available space for the proposed work.
	<b>Clarified as</b>	Refer Point No 19.
36.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Clause 20, Page 41
	<b>Tender Description</b>	The system should contain HCl/ Citric Acid, NaOCl and NaOH dosing systems for CIP.
	<b>Bidders Query</b>	We would like to highlight that some of the membrane manufacturers not required dosing system for CIP they can provide only CIP tank with agitator and tank with recirculation arrangement and chemical will be put in CIP tank only. Please amend
	<b>Clarified as</b>	As per Tender. The backwash/ cleaning system to include the backwash pumps, dosing pumps and tanks, static mixer in line to UF.
37.	<b>Reference</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Diffuser aeration

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Sr. No.	Attribute	Description
	Clause	system, page 81
	Tender Description	Min No of diffusers - uninstalled shelf spares 10%
	Bidders Query	Uninstalled shelf spares: 10% is very high, will loose its utility till the time of usage. It may be removed.
	Clarified as	Not related to tender. BNPM tender consists of only 72 pages.

**C. AMENDMENT TO THE TENDER:**

Sr. No.	Attribute	Description
	Reference Clause	Sec V (SCC), Sr 8, Page 32 : Terms and Mode of Payment
	Tender Description	<b><u>Design, Supply, Installation, Commissioning, Performance Guarantee Test.</u></b> 100% of the order value shall be released within 30 days, against successful completion of the total project i.e design, supply, installation commissioning and performance guarantee test (PGT) at BNPM, Mysore. Documents to be submitted for payment release: Original Invoice, LR, Packing List Delivery Challan, Test Certificates, and Warranty Certificate for system and for UF Membrane.
1.	Bidders Query	<p>In view of the nature and size of the project, we humbly request you to kindly amend the payment terms as follows:</p> <ul style="list-style-type: none"> <li>- 15% advance along with the Letter of Award / Letter of Intent</li> <li>- 5% against submission of drawings</li> <li>- 10% against the submission of Proof of Placement of Purchase Orders for Major Equipment</li> <li>- 55% against the dispatch of equipment from their respective dispatch locations</li> <li>- 5% against receipt of material at site.</li> <li>- 5% against erection of plant</li> </ul>

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Sr. No.	Attribute	Description
		<p>- 5% against commissioning of Bidder's scope of supply for the plant Kindly confirm.</p> <p><b>To be read as</b></p> <p><b>Payment terms to be read as :</b></p> <p><b>a. Design and Supply Part:</b></p> <p>i. 80% of design and supply part will be released within 30 days after complete and successful supply &amp; acceptance of all the designs and material required for the project at BNPM, Mysore.</p> <p>ii. 20% of design and supply part will be released within 30 days after successful completion of installation, Commissioning, Performance Guarantee Test and Training against completion certificate issued by BNPM, Mysore.</p> <p><b>b. Installation, Commissioning, Performance Guarantee Test, Training:</b> 100% of order value against Installation, Commissioning, Performance Guarantee Test and Training will be released within 30 days after successful completion of Installation, Testing, Commissioning, Performance Guarantee Test, and Training against completion certificate issued by BNPM, Mysore.</p> <p><b>c. Spares (if ordered):</b> 100% of the order value shall be released within 30 days after receipt and acceptance of the items at BNPM, Mysore.</p> <p>All Payments shall be done in INR only. Payments to successful bidder shall be made by electronic transfer.</p>
2.	<b>Reference Clause</b>	Sec IX (QUALIFICATION/ ELIGIBILITY CRITERIA), Experience & Past Performance, Page 50
	<b>Tender Description</b>	As a part of technical evaluation, the bidder shall visit BNPM site to understand the complete scope of work as per the requirement.
	<b>Bidders</b>	In view of the spread of Covid – 19, we humbly request you to kindly waive –

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Sr. No.	Attribute	Description
	<b>Query</b>	off this condition for those bidders which are already executing any other project at the same site as on the date of issue of tender inquiry. Kindly confirm.
	<b>To be read as</b>	Clause may be deleted.
3.	<b>Reference Clause</b>	Sec VIII (QUALITY CONTROL REQUIREMENTS), Technical compliance statement, Clause 2(a), page 47
	<b>Tender Description</b>	a. <b>Documents to be submitted with technical bid:</b> P&ID, PFD, HFD, GA – of the system, Composite layout with area requirement, Projection of UF system duly certified by OEM, List of essential spares and recommended spares, L1 Schedule (Activity wise work completion schedule) in Gantt Chart Form meeting the required completion schedule of the project.
	<b>Bidders Query</b>	Kindly appreciate that for this nature of project, general practice is to submit the PFD only and balance documents shall be submitted along with BEP post contract award, hence request you to kindly consider the same accordingly. Kindly confirm.
	<b>To be read as</b>	As part of the technical bid the bidders need to provide the following details: (a) GA drawing (showing the area requirement and location of pumps and panels etc). (b) P&ID of the system. (c) Electrical Load details. (d) Datasheet of membrane, pumps, valves and instruments proposed to be supplied.
4.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Electrical & Instrumentation (E&I) Scope of Works, page 42
	<b>Tender Description</b>	MCC panel location shall be finalized after finalization of the detailed drawings (SLD/GA) of the panel. However, it is planned to be located in the existing MCC control room in front of one of the boundary walls.
	<b>Bidders</b>	Please provide exact Distance between Existing MCC Room & New UF Plant.

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Sr. No.	Attribute	Description
	<b>Query</b>	So, we can calculate require Power & Control Cables quantity between New MCC Panel & UF Skid.
	<b>To be read as</b>	Approx. Length shall be considered as 120 m. Ref *Note.
5.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Cabling System, page 43
	<b>Tender Description</b>	Single point 415V, 50Hz, 3 Phase, 4 Wire supply will be made available by Purchaser at the MCC incomer. Distribution of power from purchaser MCC/PDB onwards is in the scope of bidder.
	<b>Bidders Query</b>	Please provide exact Distance between Purchaser MCC Panel & New UF Plant MCC Panel. So, we can calculate require Incomer Power Cable quantity between both the MCC Panels.
	<b>To be read as</b>	Approx. Length shall be considered as 20 m. Ref *Note.
6.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), PLC integration, page 44
	<b>Tender Description</b>	The bidder is required to do the necessary interconnection between the new UF system and existing PLC system (GE Make-Rx3i).
	<b>Bidders Query</b>	Please give exact Distance between Existing PLC System & New UF Plant PLC Room. So, we can calculate require Fiber Optic (FO) Cable between both the PLC Systems.
	<b>To be read as</b>	Approx. Length shall be considered as 10 m. Ref *Note.
7.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), PLC integration, page 44
	<b>Tender Description</b>	Separate panel with Controller, IO modules, communication modules, power supply modules, relay boards, relays, TBs, SMPS, Software, cabling for integration and any other necessary accessories with 20% spare in both PLC panel and field JB's shall be in bidder's scope.
	<b>Bidders</b>	We can't understand the meaning of both PLC Panel. Please Clarify.

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Sr. No.	Attribute	Description
	<b>Query</b>	We understood that bidder need to give 1 No. PLC Panel for new UF Plant.
	<b>To be read as</b>	To be read it as, 20% spare in PLC panel, and 20% spare in field JB's.
8.	<b>Reference Clause</b>	Sec I (NOTICE INVITING TENDER), Terms of Payment, page 5
	<b>Tender Description</b>	Design, Supply, Installation, Commissioning, Performance Guarantee Test: 100% of the order value shall be released within 30 days after against successful completion of the total project i.e design, supply, installation commissioning and performance guarantee test (PGT) at BNPM, Mysore.
	<b>Bidders Query</b>	<p>The terms of payment are very uncommon.</p> <p>It is requested to change the terms of payment which will mostly followed by all reputed client/consultant with considering all practical aspects in EPCC business.</p> <p>We are proposed below mentioned terms of payment.</p> <p>"90% of order value against supply part will be released within 30 days after successful supply &amp; acceptance of material at BNPM, Mysore along with submission of invoice &amp; all required docs as per tender.</p> <p>10% of order value against supply shall be released within 30 days after successful completion of Erection, Testing, Commissioning and Performance Test and based on user (BNPM) Certification for successful completion of the work along with submission of invoice &amp; all required docs as per tender</p> <p>Erection , Testing , Commissioning , Performance Test &amp; Civil Design : 100% of order value against Erection , Testing , Commissioning , Performance Test</p>

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		& Civil Design shall be released within 30 days after successful completion of Erection , Testing , Commissioning , Performance Test along with submission of invoice & all required docs as per tender. Payment shall be done in INR only. Payments to supplier shall be made by electronic transfer.
	<b>To be read as</b>	Refer to Sr 1
9.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, Sr 7, page 40
	<b>Tender Description</b>	All the valves directly before or after the UF membrane should be motorised to ensure controlled operation. The above provision is given to ensure gradual pressurisation and depressurisation of the UF membrane modules. Automated Air release valves should be provided in the UF system.
	<b>Bidders Query</b>	We understand that motorized butterfly/ ball valve/ globe control valve shall be provided before Or after the UF membrane skid to ensure controlled operation and to ensure pressurisation and depressurisation of the UF membrane modules but all other auto valves to be located within the UF Skid (i.e UF feed, UF permeate, UF backwash, UF Drain etc. will be pneumatic operated butterfly valves and it is also recommended by membrane manufactures and also followed by reputed client/consultant. Kindly give your concurrence on the same.
	<b>To be read as</b>	Bidder may consider any motorised/ Pneumatic control valve , Mascot control/ Dembla/ Neles/ Flowserve shall be included as approved makes for valves whereas positioner shall be of Siemens/ Mesto/ ABB
10.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, Sr 7, page 40
	<b>Tender Description</b>	Automated Air release valves should be provided in the UF system.

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Sr. No.	Attribute	Description
	<b>Bidders Query</b>	Solenoid valve (pneumatic/electric) operated to be used as automated air release valves in the UF system for this purpose in line with best engineering practice. Please give your concurrence on the same.
	<b>To be read as</b>	Electric solenoid valves shall be used for air release.
11.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), General Terms & Conditions, Sr 19, page 41 & 44
	<b>Tender Description</b>	The bidder is required to provide differential pressure transmitter with pressure tapings across the 100 micron bag filter.
	<b>Bidders Query</b>	As the tender (PLC integration), the UF system shall be suitable to run in AUTO mode from the new PLC system. Hence please reconfirm the requirement of strainer Either it shall be manual i.e. bag filter/basket strainer, Qty 1 Nos OR auto i.e automatic self-cleaning filter, Qty 1 Nos.
	<b>To be read as</b>	Type of Filter system is 100 micron Bag Filter
12.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Electrical & Instrumentation (E&I) Scope of Works, page 42
	<b>Tender Description</b>	a) Motors shall be energy efficient (IE-4) squirrel cage induction motors having TEFC, IP-55 enclosure (including terminal boxes and bearing housing) with Class-F insulation (and temperature rise limited to Class B) confirming to IS 325 b) Values of motor efficiency shall be as per category 'EFF1' (or better) as given in IEEMA Std. 19-2000 for all continuous duty motors such as fans, pumps etc..
	<b>Bidders Query</b>	Motor efficiency is defined as both IE4 & EFF1 in the tender. For EFF class, the testing method used as per IEC 60034-2-1:1996 but for IE



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Sr. No.	Attribute	Description
		<p>motors the testing will be conducted as per IEC 60034-2-1:2014.</p> <p>The stray loss for EFF class motor will be assumed as 0.5% of the input but for IEC, the stray loss will be measured.</p> <p>EFF1 motor is equal to IE2 and EFF2 could be considered as equivalent to that of IE1.</p> <p>The main difference between the EFF1, EFF2, EFF3, IE1, IE2, IE3, IE4, IE5 class are having different losses. By reducing the motor loss, the motor will be promoted to next level efficiency.</p> <p>Please be note that IE4 motor does not fall in the std product mfg range and hence most of bought out item's vendors cannot supply it with considering readiness, delivery and all other practical aspect.</p> <p>In view of above clarification, shall we consider IE3 motor which is better than EFF1 class? and also followed by most of client/ consultant/ end users.</p>
	<b>To be read as</b>	Bidder may consider IE3 or above rated motors for supply.
13.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XI, PAGE 45
	<b>Tender Description</b>	<p>As part of the technical proposal, the BIDDER shall furnish the following data for scrutiny.</p> <ul style="list-style-type: none"> <li>• Single line drawings, MCC, LCS drawings</li> <li>• Cabling layouts, Earthing Layouts</li> <li>• Power, Control and instrumentation Cable schedule, instrument loop drawings, hook up drawings and interconnection schedule.</li> <li>• Control Logics, operating philosophy of the system</li> <li>• GA drawings, datasheets, test reports as applicable for the system.</li> <li>• Civil Foundation drawings of the equipment</li> </ul>
	<b>Bidders Query</b>	<p>The below listed documents are part of the detail engineering activities. Hence, Bidder will/ can submit the same documents/ drawings after award of the project. Please confirm.</p> <ul style="list-style-type: none"> <li>• MCC, LCS drawings</li> </ul>

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Sr. No.	Attribute	Description
		<ul style="list-style-type: none"> <li>• Cabling layouts, Earthing Layouts</li> <li>• Power, Control and instrumentation Cable schedule, instrument loop drawings, hook up</li> <li>• drawings and interconnection schedule.</li> <li>• Control Logics, operating philosophy of the system</li> <li>• GA drawings, datasheets, test reports as applicable for the system.</li> <li>• Civil Foundation drawings of the equipment</li> </ul>
	<b>To be read as</b>	Refer Sr No. 3.
14.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XII, page 45
	<b>Tender Description</b>	Approved Makes for UF Membranes - Asahi Kasei/ DuPont/ Hydranautics/ TORAY/SUEZ/ hydramem
	<b>Bidders Query</b>	It is requested to approve below mentioned additional make for UF membrane. <i>MEMSTAR/ QUA Membrane</i>
	<b>To be read as</b>	Accepted, keeping other performance conditions unaltered.
15.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Sr XII, page 46
	<b>Tender Description</b>	Approved makes for Motorised Slow closing Valves Belimo/ AUMA Controller, IO cards, Communication modules - GE (Existing controller: Rx3i)
	<b>Bidders Query</b>	<p>The vendors which are listed under the Motorized valves are mostly manufactures &amp; suppliers of actuator, controller, cards, Valves parts/accessories etc. (not complete valve).</p> <p>Hence it is requested to approve the below mentioned makes for Motorized valves and Control valves which is also reputed &amp; approved by most of client/consultant includes IOCL, HPCL, TCE, MND, KPCL etc.</p> <p><i>Mascot control/ Dembla/ Delvel/ Hawa (Aira)</i></p> <p>While the electric actuator make will be AUMA/ Limitorque/ Rotork/ Aira.</p>

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Sr. No.	Attribute	Description
	<b>To be read as</b>	Approved makes for valves - Mascot control/ Dembla/ Neles/ Flowserve Approved makes for electric actuator - AUMA/ Limitorque/ Rotork
16.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 40
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	<p>There is no specification provided in the tender documents for the selection of type of valves for the UF system. Hence, we are proceeding with below mentioned valve criteria as per good engineering practice for the intended application and is also followed/approved by most of client/consultant/end users.</p> <ul style="list-style-type: none"> <li>• Manual valves - Wafer type Butterfly valve/Ball valve</li> <li>• On/ Off (Pneumatic operated valve) - Wafer type Butterfly valve</li> <li>• Motorized valve/ Control valve - Ball valve/ Globe control valve/Butterfly valve</li> <li>• Non-Return valve - Wafer type check valve (single disc)</li> <li>• Sampling valve - Ball/ Needle valve</li> </ul>
	<b>To be read as</b>	<ul style="list-style-type: none"> <li>• Manual valves - Wafer type Butterfly valve/Ball valve</li> <li>• On/Off (Pneumatic operated valve) - Wafer type Butterfly valve</li> <li>• Motorized / Pneumatic valve (slow closing valve) and Control valve - Ball valve/ Globe control valve/Butterfly valve</li> <li>• Non-Return valve - Wafer type dual plate check valve (make to be same as mentioned for valves in tender)</li> <li>• Sampling valve - Ball valve (SS304 - 3 piece)</li> </ul>
17.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 40
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	There is no specification provided in the tender documents for the selection of MOC of valves for the UF system.

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Sr. No.	Attribute	Description
		<p>Hence, we are proceeding with below mentioned valve criteria as per good engineering practice for the intended application and is also followed/ approved by most of client/ consultant/ end users.</p> <ul style="list-style-type: none"> <li>• Butterfly valve (Manual/Auto) - Body: CI, Disc: SS304, Seat: EPDM</li> <li>• Ball Valve (Manual/Auto) - Body: CS/SS304, Ball: SS304, Seat: PTFE</li> <li>• Globe Valve (Control) - Body: SS304, Trim: SS304, Seat: PTFE</li> <li>• Non return valve - Body: SS304, Disc/ Seal: EPDM</li> <li>• For Chemical application - UPVC valves and UPVC piping</li> </ul>
	<b>To be read as</b>	<ul style="list-style-type: none"> <li>• Butterfly valve (Manual/Auto) - Body: CI, Disc: SS304, Seat: EPDM;</li> <li>• Ball Valve (Manual/Auto) - Body: SS304, Ball: SS304, Seat: PTFE;</li> <li>• Globe Valve (Control) - Body: SS304, Trim: SS304, Seat: PTFE;</li> <li>• Non return valve - Body &amp; Disc: SS304, Seal: EPDM;</li> <li>• For Chemical application - uPVC valves and uPVC piping and fittings of Sch 80.</li> </ul> <p>All valves having provision for manual operation and having size more than 150NB should be gear operated.</p>
18.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 41
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	<p>There is no specification provided in the tender documents for the selection of MOC of Piping for the UF system.</p> <p>Hence, we are proceeding with below mentioned piping criteria as per good engineering practice for the intended application and is also followed/approved by most of client/consultant/end users.</p> <ul style="list-style-type: none"> <li>• For Process piping - UPVC/SS304 ERW Sch 10S</li> <li>• For Service water piping - MS</li> <li>• For Chemical application - UPVC Sch 40</li> <li>• For Blower Air - SS 304 Sch 10S</li> <li>• For Drain application - UPVC/HDPE</li> </ul>

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Sr. No.	Attribute	Description
	<b>To be read as</b>	Following shall be the MOC of pipelines <ul style="list-style-type: none"> <li>• Process piping - uPVC sch 80</li> <li>• Service water piping - uPVC sch 80</li> <li>• Chemical application - uPVC Sch 80</li> <li>• Drain application - uPVC Sch 80</li> <li>• Blower Air - SS 304 Sch 10S</li> </ul>
19.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 40
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	There is no specification provided in the tender documents for the selection of MOC of Pumps for the UF system. Hence, we are proceeding with below mentioned pumps criteria as per good engineering practice for the intended application and is also followed/approved by most of client/consultant/end users. <ul style="list-style-type: none"> <li>• UF feed pump - Body: CI, Impeller: SS304, Gland packing</li> <li>• UF RC pump - Body: SS316, Impeller: SS316, Mechanical seal</li> </ul>
	<b>To be read as</b>	UF feed pump and recirculation pump - Body: SS304, Impeller: SS304, Gland packing
20.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK)
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	There is no specification provided in the tender documents for the selection of MOC of Basket strainer for the UF system. Hence, we are proceeding with below mentioned MOC for Manual basket strainer as per good engineering practice for the intended application and is also followed/approved by most of client/consultant/end users. <ul style="list-style-type: none"> <li>• Body - MSEP, Screen - SS304</li> </ul>
	<b>To be read</b>	Body & Screen - SS304

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Sr. No.	Attribute	Description
	as	
21.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), page 41
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	There is no specification provided in the tender documents for the selection of MOC of dosing tanks for the UF system. Hence, we are proceeding with HDPE MOC for dosing tank. Please confirm the same.
	<b>To be read as</b>	MOC of dosing tank shall be HDPE, to be provided 1 working and 1 stand by. Dosing pumps shall also be provided in 1 working and 1 stand by. Agitators (MOC: SS 304) to be provided in dosing tanks of NaOH and Citric Acid.
22.	<b>Reference Clause</b>	Sec V (SCC), Sr 8, Page 32
	<b>Tender Description</b>	100% of the order value shall be released within 30 days after against successful completion of the total project i.e design, supply, installation commissioning and performance guarantee test (PGT) at BNPM, Mysore.
	<b>Bidders Query</b>	We request you to accept the following Payment terms - 1. 80% Payment against dispatch of Material at site as per BOM & Submission of Invoice copy / LR Copy/Guarantee Certificates/ 3% Bank guarantee/ Acceptance from BNPM Stores 2. 10 % Payment after Installation & Commissioning 3. Balance 10% Payment Against Completion of PGTR Reasons for you to consider above terms 1. These terms are more favorable for working, cash flow, project management, while still being able to retain hold on vendor. 2. COVID Related Cash crunch from Vendor's side 3. Project time period is >6 months, so upfront investment by vendor from Day 1, followed by payment after 6-12 months is very tough for MSE vendors. 4. Above terms are applied for a wide range of PSU tenders for UF+RO systems like NTPC, BHEL and the like. 5. These may be considered especially because site civil works has to progress parallelly to work done by vendor. Any delay

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Sr. No.	Attribute	Description
		in site readiness will further push payment receipt for Vendor.
	<b>To be read as</b>	Ref Sr 1
23.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK)
	<b>Tender Description</b>	NIL
	<b>Bidders Query</b>	We request you to add 'Theway' Make of UF Membranes in the Approved Make List Reason for Adding 'Theway' make - 1. Theway Membranes have been widely used and approved by Reputed PSUs including BARC, IGCAR, BHEL, RVUNL, NTPC, PWD-Pondy, IIT-Madras etc. 2. Theway Membranes are Manufacture in Chennai India, with advantage of Quick Service support & Etc. 3. Please find supporting references and technical information (Attachment 2 - Kindly, Only for circulation within BNPMPL ) 4. Also, please recollect visit by our technical engineer to BNPMPT on 10/12/21, to meet with technical, plant and purchase teams where a wide range of advantages, pre-qualifications for Theway Membranes have been shared and explained
	<b>To be read as</b>	Accepted, keeping other performance conditions unaltered.
24.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Operational requirement of UF system, page 40
	<b>Tender Description</b>	
	<b>Bidders Query</b>	Different membrane manufacturers have different treatment philosophy, so please open this criteria. It should be as per membrane manufacturer.
	<b>To be read as</b>	Accepted, keeping other performance conditions unaltered.
25.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Clause XII, page 45
	<b>Tender</b>	Approved makes for UF Membranes

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Sr. No.	Attribute	Description
	<b>Description</b>	
	<b>Bidders Query</b>	Please add KOCH make also in the approved makes for UF membrane as KOCH is a well known manufacturer of membranes
	<b>To be read as</b>	Accepted, keeping other performance conditions unaltered.
26.	<b>Reference Clause</b>	Sec VII (TECHNICAL SPECIFICATIONS/ SCOPE OF WORK), Clause XI, page 45
	<b>Tender Description</b>	As part of the technical proposal, the BIDDER shall furnish the following data for scrutiny
	<b>Bidders Query</b>	The detailed technical proposal at the bidding stage is difficult, kindly allow us to submit the general technical data, the detailed technical data can be submitted after the award of the work or after detailed engineering at a later stage.
	<b>To be read as</b>	Refer Sr, No 3
27.	<b>Reference Clause</b>	Sec I (NOTICE INVITING TENDER), Clause 7, page 5
	<b>Tender Description</b>	100% of the order value shall be released within 30 days after against successful completion of the total project i.e design, supply, installation commissioning and performance guarantee test (PGT) at BNPM, Mysore.
	<b>Bidders Query</b>	We would like to highlight that this is a turnkey job, and payment term is very stringent. Generally payment terms are as payment against the supply is 70%, 20% on installation and 10% after the performance guarantee test. Kindly amend the payment terms.
	<b>To be read as</b>	Refer Sr No. 1



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**\*Note:**

**Against Sr No 4,5,6:** The mentioned qty shall not be considered as reference. As per clause 1 under general terms & conditions of section VII Technical Specification /Scope of work the bidder has to visit the site to understand the complete scope of works as per the requirement of the system. Bidder may take the actual measurements during the site visit.

All other terms & conditions, technical specification, scope of work will remain as per the tender and subsequent corrigenda.