| | BANK NOTE PAPER MILL PRIVATE LIMITED | |
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| BNPM/NCB/RO SYSTEM/275/2019-20 | CORRIGENDUM NO. 2 | |
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CORRIGENDUM No. 2, DATED 21.08.2019

FOR

BNPM/NCB/RO SYSTEM/275/2019-20 Dated 06.07.2019
TENDER FOR SUPPLY, ERECTION, TESTING, COMMISSIONING, PERFORMANCE TESTING OF 65m3/HR SYSTEM AT BNPM PLANT, MYSURU

Client: BANK NOTE PAPER MILL INDIA PRIVATE LIMITED, MYSURU, KARNATAKA



Administrative Office Building,
Entry Gate-1, Paper Mill Compound,
Note Mudran Nagar,
Mysuru-570003



SCOPE OF THIS CORRIGENDUM:

1. Revision:

| Sr. No. | Reference Clause of the Tender | | Current Provision to be considered |
|------------|---|---|--|
| MECH | IANICAL | L | |
| 1. | Section VII- Technical Specification & Scope of Work: Clause :A: RO Feed Water Parameter: Sl No 7 | effluent is 44 °C. | Temperature of effluent shall be read as maximum 40°C. |
| 2. | Section VII- Technical Specification & Scope of Work | housing is not defined in the tender. | The MOC of cartridge filter housing shall be SS304 (material test certificates to be submitted at the time of delivery). |
| 3. | Section VII- Technical Specification & Scope of Work | Source of effluent is not defined in the tender | Source of effluent is treated Effluent after UF system. |

2. Clarification:

| Sr. No. | Reference | Description | Clarification sought by | Response from Client |
|---------|---|---------------------------|---|--|
| | Clause of | • | prospective Bidders | • |
| | the Tender | | P 13P | |
| | | | | |
| 1. | Section VII- Technical Specificatio ns/ Scope of Work: SI No 2 under Clause C - General terms and Conditions & Part A | RO Feed Water parameters. | Sulphate, chloride, phosphate value of feed | pH shall be considered as 8 (maximum). As mentioned in the tender (Sl No 2 under Clause C – General terms and Conditions under Section VII-Technical Specifications/Scope of work) the bidder shall check the feed water parameters. Based on previous analysis following are the values obtained for the parameters requested: Bicarbonate alkalinity as CaCO ₃ : 419 mg/l; Sulphate as SO ₄ :318 mg/l Chlorides: 279 mg/l. |

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| Sr. No. | Reference Clause of the Tender | Description | Clarification sought by prospective Bidders | Response from Client |
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| 2. | Section VII-C. General Terms & Conditions: Sl No 7 under Clause C - General terms and Conditions | The Feed pumps is required to be VFD driven | feed pump. For the process point of view VFD require only HPP (High pressure pump) | The provision has been given considering the variation in the TDS (1500 to 500ppm) of feed water and to avoid reduction in suction pressure of the high pressure pump. Bidder is required to comply to the tender terms and to provide VFD provision and ensure that the system/pumps won't fail even if the TDS reduces to as low as 350ppm. Confirmation to be submitted from the pump manufacturer stating that the high pressure pump will work between the above mentioned points with the designed suction pressure provided by feed pump. |
| 3. | Section VII- C. General Terms & Conditions: Sl No 17 under Clause C - General terms and Conditions | the system plan / | • • | Attached plant layout may be referred to. |
| 4. | Section VII- C. General Terms & Conditions: | Conductivity (in RO feed, reject and permeate) | conductivity is all right | Reject conductivity meter is required as mentioned in tender (Sl No 24 under Clause C – General terms |



| Sr. No. | Reference | Description | Clarification sought by | Response from Client |
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| | Clause of the Tender | | prospective Bidders | |
| | Sl No 24 under Clause C – General terms and Conditions | | transmitter is not required. | and Conditions under Section VII- Technical Specifications/ Scope of work.) Range of conductivity meters to be selected appropriately considering the variation in TDS. |
| 5. | Section V- SCC – Sr No 4, Point ii | Performance Warranty: 3 years of warranty to be provided for minimum 92% recovery from the date of commissioning. | analysis COD -110, BOD5- 25 PPM, at this | requirement mentioned in the tender should be |
| 6. | Section VII- Technical Specificatio n & Scope of Work: | Battery limit. (Not specified in tender) | defined in tender | The party should visit the site and check for routing of pipes and cables and quote accordingly. |
| 7. | Section VII- Technical Specificatio n & Scope of Work: SI No 26 under Clause C – General terms and Conditions | The system should be provided with a provision to bypass the last stage (this would then go to reject tank directly) if the TDS at the feed to last stage reaches below 2,000ppm. This system for bypassing the last stage (when the TDS falls below | • | It has been mentioned in the tender that the feed TDS would vary between 1500 to 500ppm. For calculation purpose both upper and lower limits shall be considered. RO Projections at both limits should be submitted. The query pertains to a condition arising mainly when operating with a low TDS feed water. Vendor |

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| Sr. No. | Reference Clause of the Tender | Description | Clarification sought by prospective Bidders | Response from Client |
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| | | 2,000ppm) should work automatically by incorporating auto valve, TDS sensor etc. | | shall provide the provision as required in the tender. |
| 8. | Essential Spares Sec – XI Price Schedule (Refer Form B1, B2, B3) | List of Essential Spares, Recommended Spares | not available in the Tender, kindly provide | The list of essential spares & recommended spares are to be provided by the bidder only & rates are to be mentioned in the price bid , however rates for Recommended Spares(Refer Form B3: Sec -: XI , Price Schedule) will not be considered for evaluating the lowest bidder. |
| | | | | Ordering of any kind of spares will be under discretion of BNPM. |
| 9. | Section VII- Technical Specificatio n: Sl No 15 under Clause C – General terms and Conditions | The bidder is required to do the necessary interconnection between the new RO system and exiting PLC. Necessary programming, SCADA development shall be carried out in the existing PLC to accommodate the | Processor with Memory capacity i s required. | PLC CPU: GE - RX3i CPU 1 GHz With 5MB memory (Catalog No- IC695CPE305); Ge IP Software: GE Proficy Machine Edition 8.60 (Engineering |
| | | new RO system | _ | CIMPLICITY 9.0 (SCADA software) |



| Clause of the Tender prospective Bidders communication card 2. Controll | |
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| | |
| communication card 2. Controll | |
| 6. No of SCADA tags are utilized and No of SCADA tags are available I sto be defined. 7. If SCADA tags are not available for development of new RO system pages / programme, it has to be upgraded. Upgradation of SCADA scope is not clear. 8. Any possibility of existing SCADA system to be absolute and discontinued. 9. Details of existing ethernet switch, spare port availability whether to integrate with new RO RIO Panel is required. 10. If RIO is not to be considered, then details of sufficient space is availability to install new IO Banks in existing PLC Panel. Is required 10. Banks in existing PLC Panel. Is required 11. If RIO is required 12. System and the be used for system of system and the be used for system of a system and the be used for system of a system and the be used for system of a sys | Analog cards y available in ystem. Spare vailable in the the same shall the new RO Input Output el is not & the I/O's nected directly m HMI/SCADA – 9.0 gh SCADA tags ble for the try is required for eshall be taken oftware – GE 9.0 & the |
| no -04 | |



| Sr. No. | Reference | Description | Clarification sought by | Response from Client |
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| | Clause of | | prospective Bidders | |
| | the Tender | | | |
| | | | | 10. RIO Panel is not |
| | | | | considered & the I/O's |
| | | | | shall be connected directly |
| | | | | to PLC system. Available |
| | | | | I/O Spares in PLC |
| | | | | a.Digital Inputs – 100 Nos |
| | | | | b.Digital Output– 100 Nos |
| | | | | c.Analog Input- 20 Nos |
| | | | | d.Analog Output - 10 Nos |
| | | | | |
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3.Extension of Tender submission due date:

| <u>Sl</u> | Previous Provisions | Action/Clarification | Reason for Amendment |
|-----------|--------------------------------|----------------------|---------------------------------------|
| No. | | incorporated in this | |
| | | <u>Corrigendum</u> | |
| 1. | Offer Submission Closing Date: | Offer Submission | Within the tender submission due date |
| | 21.08.2019 at 14:00 Hours | Closing | no bids have been received. Only one |
| | | Date:15.09.2019 at | party has shown interest but not |
| | | 14:00 Hours | submitted the bid. |
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EXCEPT FOR DETAILS MENTIONED HEREIN, ALL OTHER DETAILS CONTAINED IN **BNPM/NCB/RO SYSTEM/275/2019-20 Dated 06.07.2019, CORRIGENDUM 1** SHALL REMAIN APPLICABLE AND UNCHANGED.

ENCLOSED DRAWINGS FOR REFERENCE:

1. PLANT LAYOUT OF UF+RO, 2. GA DRAWING OF TREATED EFFLUENT TANK, UF PERMEATE TANK, RO PERMEATE WATER STIORAGE TANK



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