

**NATIONAL COMPETITIVE BIDDING (NCB)-OPEN TENDER**  
**Standard Bidding Document (SBD)**

Procurement of Goods & Services

**BHARATIYA RESERVE BANK NOTE MUDRAN PRIVATE LIMITED**

(Wholly owned Subsidiary of Reserve Bank of India)

Note Mudran Nagar, Mysuru 570003

Phone: 0821-2582905, 2582915, 2582925, FAX: 0821- 2582099

Website: [www.brbnmpl.co.in](http://www.brbnmpl.co.in), Email: [mysorepress@brbnmpl.co.in](mailto:mysorepress@brbnmpl.co.in)

MYS/FF/PUR/F/01/03

**Not Transferable**

**Security Classification: Non-Security**

**TENDER DOCUMENT FOR COMPLETION OF BALANCE WORKS FOR  
CONSTRUCTION OF INK VESSEL WASHING, PACKING AND TOILET BLOCK  
FOR INK MANUFACTURING UNIT AT BRBNMPL, MYSURU.**

Tender No. 088/MYS/IMU-23/2020-21 dated 19/12/2020

This tender document contains: 157 pages

The tender document is sold to:

M/s. \_\_\_\_\_

Address \_\_\_\_\_

Details of Contact persons in BRBNMPL regarding this tender:

**Name: T.R. Gururaj, Deputy General Manager-PP**

**Phone: 0821 – 2469066,**

**Email: [trgururaj@brbnmpl.co.in](mailto:trgururaj@brbnmpl.co.in)**

Note: All Official correspondences related to above tender are to be address to the head of Unit along with tender reference No as follows;

**Address:**

**The General Manager(PP) & OSD,**

**Bharatiya Reserve Bank Note Mudran Private Limited**

**Note Mudran Nagar, Mysuru**

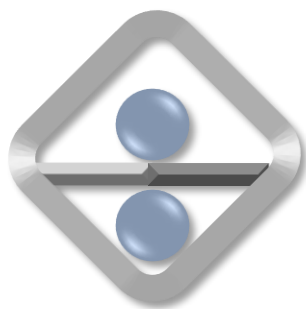
**Pin- 570003, Karnataka**

**Phone No. 0821-2582915/2582925, 2582935, 2582945; Extension: 2003/2024, Fax: 0821-2582099**

## CONTENTS OF THIS TENDER ENQUIRY

Tender Clause / Section Reference	Tender Clause Description	Remarks
<b>Section I</b>	Notice Inviting Tender (NIT)	Enclosed
<b>Section II</b>	General Instructions for Tenderer (GIT)	Enclosed
	<b>Part I:</b> General Instructions Applicable to all Types of Tenders	
	<b>Part II:</b> Additional General Instructions Applicable to Specific Types of Tenders	
<b>Section III</b>	Special Instructions to Tenderers (SIT)	Enclosed
<b>Section IV</b>	General Conditions of Contract (GCC)	Enclosed
<b>Section V</b>	Special Conditions of Contract (SCC)	Enclosed
<b>Section VI</b>	List of Requirements	Enclosed
<b>Section VII</b>	Technical Specification	Enclosed
<b>Section VIII</b>	Quality Control Requirements	Enclosed
<b>Section IX</b>	Qualification/Eligibility Criteria	Enclosed
<b>Section X</b>	Tender form	Enclosed
<b>Section XI</b>	Price Schedule (Price Bid)	Enclosed
<b>Section XII</b>	Questionnaire /Checklist	Enclosed
<b>Section XIII</b>	Bank Guarantee Form for EMD	<i>Not Applicable to this tender.</i> EMD shall be submitted in form of DD as mentioned in section-I (Notice Inviting Tender-NIT)
<b>Section XIV</b>	Manufacturer's Authorization Form	<i>Not applicable to this tender</i>
<b>Section XV</b>	Bank Guarantee Form for Performance Security / SD	Enclosed
<b>Section XVI</b>	Contract Form	Enclosed
<b>Section XVII</b>	Letter of Authority for attending a Bid Opening	Enclosed
<b>Section XVIII</b>	Shipping arrangement for liner cargoes	<i>Not applicable to this tender</i>
	A. In respect of CFR/CIF/Turnkey/FOR Contracts for Import	
	B. In respect of FOB/FAS Contracts for	
<b>Section XIX</b>	Proforma of Bills for Payments	Enclosed
<b>Section XX</b>	Proforma of Pre-contract Integrity Pact	<i>Not applicable to this tender</i>
<b>Annexure-A</b>	Self –certified statement of Turnover, Net Worth and Profit & Loss	Enclosed
<b>Annexure-B</b>	NEFT Mandate Form	Enclosed
<b>Annexure-C</b>	Confidentiality Statement and Declaration for Not Black Listing	Enclosed
<b>Annexure-D</b>	Authority for signing Tender Document	Enclosed
<b>Annexure-E</b>	Declaration & undertaking by Micro & Small scale Enterprises Companies as per Annexure-	Enclosed

**(To be signed & stamped and submitted along with Techno-commercial Bid Part –I)**



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**Website: [www.brbnmpl.co.in](http://www.brbnmpl.co.in) ; Email: [mysorepress@brbnmpl.co.in](mailto:mysorepress@brbnmpl.co.in)**

**Not Transferable**

**Security Classification: Non-Security**

**SECTION- I: NOTICE FOR INVITING TENDER (NIT)**

Tender No. 088/MYS/IMU-23/2020-21

DATE: 19/12/2020

1. Sealed tenders are invited from eligible and qualified tenderers for supply of following goods & services:

Schedule No.	Brief Description of Goods / Services	Quantity (with unit)	Earnest Money (in Rs.)	Remarks
1	Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru as per Bill of Quantities and Scope of Work mentioned at section-vi, vii, & xi.	As per B.O.Q	<b>Rs. 1,12,000/- (MSME/DGS &amp;D/NSIC registered firms are exempted from payment of EMD)</b>	<b>Estimated Value of work is Rs. 56.00 Lakhs.</b>

Type of Tender (Two Bid / PQB / EOI / RC / Development / Indigenization / Disposal of Scrap / Security item etc.

Date of Sale of tender documents

Price of the tender document

Closing date & time for receipt of tenders

Place of receipt of tenders

Time and date of opening of tenders

Place of opening of tender

Nominated person/Designation to Receive Bulky Tender(Clause 21.21.1 of GIT)

Two Bid System

Part I – Techno-commercial Bid

Part II – Financial/Price Bid

From 21/12/2020 to 19/01/2021 during office hours

Rs 1500/-

**20/01/2021 at 14:30 hrs.**

BRBNMPL, Mysore

**20/01/2021 at 15:00 hrs.**

BRBNMPL, Mysore

Shri T R Gururaj, DGM-PP (Ink Manufacturing Unit)

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

**SALIENT FEATURES OF TENDER FORM**

<b>Sl.No.</b>	<b>Description</b>	<b>Details</b>
1.i	Tender No.	<b>TENDER NO: 088/ MYS/ IMU-23/2020 - 21</b>
ii	Tender Date	<b>19/12/2020</b>
iii	Type of Tender (Two Bid / PQB / EOI / RC / Development / Indigenization / Disposal of	<b>Two Bid Open Tender</b>
iv	Name of the Work	<b>Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.</b>
v	Estimated Value	<b>Rs. 56,00, 000 /- (Rupees Fifty Six Lakhs only.)</b>
vi	Earnest Money deposit	<b>Rs. 1,12,000 /- (Rupees One Lakh Twelve Thousand only)</b> in the form of DD favoring Bharatiya Reserve Bank Note Mudran Pvt. Ltd, Mysuru. Payable at Mysuru. In case E.M.D is not submitted along with the tender (Technical Bid), the offer will be liable for rejection. <b>However, MSME/DGS&amp;D/NSIC registered firms are exempted from submission of requisite EMD.</b> Such Tenderer shall submit copy of supporting documents.
vii	Cost of Tender Form	<b>Rs. 1,500 /- (Rupees One Thousand Five Hundred Only)</b> (Non Refundable) in the form of DD favoring Bharatiya Reserve Bank Note Mudran Pvt. Ltd, Mysuru. Payable at Mysuru. <b>However, please note Tender Document downloaded from our website and MSME/DGS&amp;D/NSIC registered firms are exempted from submission of requisite cost of tender Fees.</b> Such Tenderer shall submit copy of supporting documents.
viii	Last date of sale of tender forms	One day before the last date of submission and closing of tenders up to 14. 00 Hrs. (In case holiday falls on that day, it shall be last working day).
ix	Last date of submission/ closing of the tenders	<b>14. 30 hrs. on 20/01/2021</b>
x	Nominated Person / Designation to Receive Bulky Tender (Clause 21.1 of GIT)	Shri T. R. Gururaj, Dy. General Manager-PP (IMU)
xi	Date of opening of Technical bid	<b>15. 00 hrs. on 20/01/2021</b>
xii	Date of opening of price bid	Shall be communicated to the eligible bidders.

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xiii	Validity of tender	120 days from the date of opening of the tender, which can be further extended for another 30 days at the discretion of BRBNMPL.
xiv	Date of Commencement	Within Two weeks from the date of issue of LOI/ Work Order, whichever is earlier.
xv	Contract Period	<b>Five Months from the date of issue of L.O.I./Work Order, whichever is earlier.</b>
xvi	Billing	Bill shall be paid on raising bill after completion of the work or any condition laid down in SCC/work order.
xvii	Performance Security deposit/ Bond to be deposited within 21 days after the issue of notification of award of contract by BRBNMPL.	Successful Bidders has to submit DD/B.G. valid up to 60 days after date of completion of all contractual obligations including warranty obligations, as performance security for 10 % (Ten percent) of the tendered amount less Earnest Money Deposit (EMD) in the prescribed format mentioned at Section: XV. <b><u>Tenderers who are registered with DGS&amp;D /NSIC/ MSME should submit an undertaking for payment of SD in case they become L1 firm in bid process and this undertaking letter should be attached to the Technical Bid-Part-I.</u></b>
xviii	Release of Security Deposit	After expiry of Defects Liability Period/ Completion of all contractual obligations including warranty obligations, whichever is later.
xix	Terms of contract and specifications	As per tender document.

2. Interested tenderers may obtain further information about this requirement from the above office selling the documents. They may also visit our website mentioned above for further details.
3. Tender documents may be purchased on payment of non-refundable fee of **Rs.1500/- (Fifteen Hundred Rupees)** per set through: -
  - a) Account Payee Demand Draft / Banker's cheque from any scheduled commercial bank in India in favour of **“Bharatiya Reserve Bank Note Mudran Private Limited”**, payable at **Mysore**.
  - b) Online Bank Transfer (Proof of online transfer should be submitted along with the tender papers) through NEFT/RTGS can be made at the following BRBNMPL account maintained with Mysore Main Branch of State Bank of India: -  

SBI A/c No.: **00000010562408040**  
 IFSC: **SBIN0003130**
  - c) Other Electronic Modes of Payment as per UPI id and QR code given below.
    - (i) Unified Payments Interface (UPI) (BHIM-UPI)
    - (ii) Unified Payments Interface Quick Response Code (UPI QR Code) (BHIM-UPI QR Code)



**Note: In case of (b) and (c) mode of payments, bidders are requested to send proof of the same, after completion of transaction, to the contact email given in the tender by giving reference of Tender number, Name of company/firm and mobile number.**

4. If requested, the tender documents will be mailed by registered post / speed post to the domestic tenderers and by international courier to the foreign tenderers, for which extra expenditure per set will be **Rs.500** for domestic post and **Rs.5000** for international courier. The tenderer is to add the applicable postage cost in the non-refundable fee mentioned in Para 3 above.
5. Tenderer may also download the tender documents from the website and submit its bid by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above.
6. Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Document, are dropped in the tender box located at the address given on or before the closing date and time indicated in the Para 1 above, failing which the tenders will be treated as late and rejected.
7. In the event of any of the above mentioned dates being declared as a holiday / closed day for the purchase organization, the tenders will be sold / received / opened on the next working day at the appointed time.
8. The tender documents are not transferable.
9. The eligible bidder shall be selected as per the eligibility criteria mentioned in Section IX of the tender and Tender shall be finalized on overall **Lowest (L1) bidder** from eligible bidders as per section XI.
10. BRBNMPL reserves the right to Cancel the tendering Process / Reject all Bids / Re-tender without assigning any reason thereof. BRBNMPL also reserves the right to accept the Bid in whole or in part. Incomplete Bid documents submitted not in accordance with the directions issued shall be liable for rejection.
11. Tenderer shall note that the tender document is kept same for all schedules, if more than one schedule is specified, for administrative convenience. BRBNMPL reserves the right to conclude contract for each schedule independently as per the response and qualification.

**12. Exemption, relaxation for MSEs and Startups:**

**a) Exemptions:**

- (i) The tenderers who are currently registered and shall continue to **remain registered during the tender validity period** with Central Purchase Organization (CPO) or as a Micro and Small Enterprise (MSE) as defined in MSEs Order 2012 issued by Ministry of Micro, Small and Medium Enterprises (MSME) or as a Startup as recognised by Department for Promotion of Industry and Internal Trade (DPIIT), are exempted from payment of **tender fee** and **earnest money**. In case the tenderer falls in these categories, it should furnish certified copy of its valid registration details (registration as a MSE or Startup, as the case may be).
- (ii) **Micro & Small Enterprises** must attach Registration Certificate issued by DIC / KVIC / KVIB / Coir Board / NSIC / Directorate of Handicrafts and Handlooms, or any other body specified by MSME for authentication such as Udyog Aadhaar Memorandum / Acknowledgment.
- (iii) The bidder who intends to participate as "Startup" company should enclose the Certificate of Recognition issued by Department of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India during submission of Technical bid.
- (iv) **No exemption will be given for depositing of security deposit (SD) to any DIC/SSI/MSME/NSIC/Startup registered firm.**

**13. Guidelines for filling two-part tender:**

- (a) **Part I:** First sealed cover should contain the required EMD amount, cost of tender form, technical offer (catalogue/brochure/specifications, etc.), tender document including corrigendum pages, supportive documents related to eligibility criteria, tax related documents, etc. along with all annexures of this tender **except Section XI (Price Schedule)**. All the pages included as Tender Document should be legible, neatly numbered and signed by authorized person with official seal of the Firm as acceptance of the terms and conditions. Offers with Counter Conditions is liable for Rejections. This first sealed cover should be clearly super-scribed with **"Part I - Technical Bid – Tender Enquiry No. 088/MYS/IMU-23/2020-21 for Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru."**  
**Any price indication in the Technical Bid will be summarily rejected.**
- (b) **Part II:** Second sealed cover should contain only section XI (**Price Schedule**) (duly sealed and signed). Format provided in the tender document for price schedule should be followed and any other format will be liable for rejection. This second sealed cover should be clearly super-scribed with **"Part II - Price Bid - Tender Enquiry No. 088/MYS/IMU-23/2020-21 for Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru as per Section VI: List of requirements"**.
- (c) The above mentioned sealed covers (Part I & II) should be put in another big cover, sealed and super-scribed as **"Offer for Tender Enquiry No. 088/MYS/IMU-23/2020-21 for Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru"** with due date of opening as **20/01/2020** and should be addressed to 'The General Manager, BRBNMPL, Note Mudran Nagar, Mysuru-570003.
- (d) **Price:** Prices shall be quoted in Indian Rupees only. The quoted rate should be on the basis of delivery at our site (F.O.R. BRBNMPL. General Store, Mysuru) and the basic rate, GST, packing & forwarding charges, freight, discounts, insurance (if any), etc. should be clearly indicated in your offer. The price quoted should remain firm and valid till completion of delivery of full quantity as per the schedule



## Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

specified in our Purchase order. The break- up of various components of total cost should be given as per the enclosed format at Section-XI - Price Schedule. The unloading charges shall be taken care of by BRBNMPL.

- (e) **Payment Terms:** Payment shall be released only after completion of work and acceptance of the same by BRBNMPL. Statutory Deductions as applicable shall be made from the gross bill amount. DD/RTGS/NEFT charges shall be borne by you. For RTGS/NEFT payment, you may forward your Bank Mandate and other details along-with your invoice for immediate e-payment.
- (f) **EMD:** Your sealed tender/ quotation should be accompanied with an Earnest Money Deposit (EMD). EMD is payable in the same way as mentioned for Tender fee (please refer point No. 03 above). However, for exemption of EMD, refer clause 18.2 of GIT under Section II of this tender document.
- (g) **Security Deposit (SD) / Performance Security:** Performance security is to be submitted for an amount equal to ten per cent (10%) of the total value of the contract. For further details, refer GCC Clause 6 under Section IV of the Tender document.
- (h) **Bank charges:** Bank charges on DD, Online Bank Transfer through RTGS/NEFT or Other Electronic Modes of Payment towards Tender form, EMD and performance security to be borne by the bidder/supplier only.
- (i) **Quantity:**
  - a) **Option Clause:** The quantity mentioned in the tender is indicative. BRBNMPL reserves the right to procure additional quantity of material as per the Option Clause 19.3 of GCC [Section IV] of tender document.
  - b) **Repeat Order Quantity:** In addition to Option Clause, BRBNMPL also reserves the right to procure additional 50% of the order quantity within 6 months from the date of last supply by placing repeat order against the previous order with same rate and terms and conditions. However, both the option clause and the repeat order clause together shall not exceed 50% of the ordered quantity.
- (j) **Split Clause:** This tender is not splittable.
- (k) The tenderer shall satisfy BRBNMPL that they are competent and authorized to submit tender and/or to enter into a legally binding contract with the BRBNMPL.
- (l) Bidders who have been black listed / debarred by BRBNMPL or any PSU or any Government Department and **stands blacklisted / debarred as on tender opening date** are not eligible to participate in this tender.
- (m) Performance of the bidder in executing the previous contracts/orders of BRBNMPL may be taken into account during technical evaluation. The bids of the tenderers who were unsuccessful in completing the previous orders of BRBNMPL without any valid reason are liable to be ignored / rejected.
- (n) Self-certified copies (with seal of firm) of this **Tender Document, corrigendum if any** along with **other documents mentioned in the tender** are to be submitted along with the Bid.
- (o) No counter conditions shall be accepted.
- (p) **Bidders to write Page Nos. on each page of the tender document submitted.**



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- (q) Offers submitted not in line with the above guidelines shall be liable for rejection.
- (r) If any clarification is required, bidders are advised to send their request in writing to the contact details mentioned at Page 1 of this tender so as to reach **at least 07 days prior** to date of opening of the tender.

Yours faithfully,

For & on behalf of BRBNMPL,

-Sd-

T R Gururaj  
Deputy General Manager-PP (Ink Manufacturing Unit),  
BRBNMPL, Note Mudran Nagar,  
Mysuru – 570 003,  
Telephone: 0821-2469066  
FAX: 0821 – 2582955 / 2582099  
[trgururaj@brbnmpl.co.in](mailto:trgururaj@brbnmpl.co.in),

## **SECTION II: GENERAL INSTRUCTIONS TO TENDERERS (GIT)**

### **(GIT) Part I: General Instructions**

#### **Applicable to all Types of Tenders**

##### **A PREAMBLE**

##### **1. Introduction**

- 1.1** Definitions and abbreviations, which have been used in these documents, shall have the meanings as indicated in GCC.
- 1.2** For sake of convenience, whole of this Standard Bidding Document (including all sections) is written in reference to Procurement of Goods Tenders. However, this SBD would be utilized for all types of Tenders e.g. EOI, PQB, Rate Contract, Tenders involving Samples, Sale / Disposal of Scrap Material and Development / indigenization etc., Procurement of Services etc. Therefore the construction of all clauses are to be interpreted in the context of particular type of tender beyond the letter of the clause, read with the additional clauses for the specific type of tenders in Part II GIT/ GCC.
- 1.3** These tender documents have been issued for the requirements mentioned in Section - VI - "List of Requirements", which also indicates, inter-alia, the required delivery schedule and terms & place (i.e. destination) of delivery.
- 1.4** This section (Section II - "General Instruction to Tenderers" - GIT) provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract. With this limited objective, GIT is not intended to be complete by itself and the rest of this document - SIT, GCC and SCC in particular may also be thoroughly studied before filling up the Tender Document. There would be certain topics covered in GIT/SIT as well as in GCC/SCC from different perspectives. In case of any conflict between these, provisions of GCC/ SCC would prevail.
- 1.5** The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.

##### **2. Language of Tender**

The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and BRBNMPL, shall be written in English or Hindi language, unless otherwise specified in the Tender. However, the language of any printed literature furnished by the tenderer in connection with its tender may be written in any other language provided the same is accompanied by Hindi or English translation. For purposes of interpretation of the tender, the English translation shall prevail.

##### **3. Eligible Tenderers**

## Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents. Please refer to Section IX: Qualification / Eligibility Criteria.

### 4. Eligible Goods and Services

All goods and related services to be supplied under the contract shall have their origin in India or other countries, subject to any restriction imposed in this regard in Section III (SIT). The term "origin" used in this clause means the place where the goods are mined, grown, produced or manufactured or from where the related services are arranged and supplied.

### 5. Tendering Expense

The tenderer shall bear all costs and expenditure incurred and / or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. BRBNMPL will, in no case be responsible or liable for any such cost, expenditure etc. regardless of the conduct or outcome of the tendering process.

## B TENDER DOCUMENTS

### 6. Content of Tender Documents

#### 6.1 The tender document includes: -

1. Section I: Notice Inviting Tender (NIT)
2. Section II: General Instructions to Tenderers (GIT)  
Part I: General Instructions applicable to all types of tenders  
Part II: Additional General Instructions applicable to specific types of tenders
3. Section III: Special Instructions to Tenderers (SIT)
4. Section IV: General Conditions of Contract (GCC)
5. Section V: Special Conditions of Contract (SCC)
6. Section VI: List of Requirements
7. Section VII: Technical Specifications
8. Section VIII : Quality Control Requirements
9. Section IX: Qualification / Eligibility Criteria
10. Section X: Tender Form
11. Section XI: Price Schedule
12. Section XII: Questionnaire
13. Section XIII : Bank Guarantee Form for EMD
14. Section XIV : Manufacturer's Authorization Form
15. Section XV: Bank Guarantee Form for Performance Security
16. Section XVI : Contract Form
17. Section XVII : Letter of Authority for attending a Bid Opening
18. Section XVIII : Shipping Arrangements for Liner Cargoes  
A: In respect of CFR, CIF, Turnkey/F.O.R. contracts for import B: In respect of FOB/FAS contracts for import
19. Section XIX : Proforma of Bills for Payments

20. Section XX: Proforma for Pre Contract Integrity Pact

- 6.2** The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested tenderers before formulating the tender and submitting the same to BRBNMPL, should read and examine all the terms, conditions, instructions etc. contained in the tender documents. Failure to provide and / or comply with the required information, instructions etc. incorporated in these tender documents may result in rejection of its tender.

**7. Amendments to Tender Documents**

- 7.1 At any time prior to the deadline for submission of tenders, BRBNMPL may, for any reason deemed fit by it, modify the tender documents by issuing suitable amendments to it.
- 7.2 Such an amendment will be uploaded in the website and notified in writing by registered / speed post or by fax / telex / e-mail, followed by copy of the same by suitable recorded post to all prospective tenderers, which have received the tender documents and will be binding on them.
- 7.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, BRBNMPL may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

**8. Pre-Bid conference**

If found necessary, a pre-bid conference may be stipulated in the SIT, for clarification/ amendment to Technical specifications / techno-commercial conditions in two-bid tenders.

**9. Clarification of Tender Documents**

A Tenderer requiring any clarification or elucidation on any issue of the tender documents may take up the same with BRBNMPL in writing or by fax / e-mail / telex. BRBNMPL will respond in writing to such request provided the same is received by BRBNMPL not later than twenty one days (unless otherwise specified in the SIT) prior to the prescribed date of submission of tender. Copies of the query and clarification shall be sent to all prospective bidders who have received the bidding documents.

**C PREPARATION OF TENDERS**

**10. Documents Comprising the Tender**

- 10.1 The tender to be submitted by Tenderer shall contain the following documents, duly filled in, as required:
- a Tender Form and Price Schedule along with list of deviations (ref Clause 19.4) from the clauses of this SBD, if any.
  - b Documentary evidence, as necessary in terms of GIT clauses 3 and 16 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.

## Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

- c Documents and relevant details to establish in accordance with GIT clause 17 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the tender documents along with list of deviations if any (ref clause 17.3 of GIT).
- d Earnest money furnished in accordance with GIT clause 18.18.1 alternatively, documentary evidence as per GIT clause 18.2 for claiming exemption from payment of earnest money. and
- e Questionnaire as per Section XII.
- f Manufacturer's Authorization Form (ref Section XIV, if applicable)

NB: The tenderers may also enclose in their tenders, technical literature and other documents as and if considered necessary by them.

10.2 A tender, that does not fulfil any of the above requirements and / or gives evasive information / reply against any such requirement, shall be liable to be ignored and rejected.

10.3 Tender sent by fax/email/telex/cable shall be ignored.

### 11. Tender currencies

11.1 Unless otherwise specified, the tenderer shall quote only in Indian rupees.

11.2 Where the tender condition specifies acceptance of quotations in different currencies, then, for domestic goods, prices shall be quoted in Indian rupees only and for imported goods, prices shall be quoted either in Indian rupees or in the currency stipulated in the SIT, mentioning, inter-alia, the exchange rate adopted for converting foreign currency into Indian Rupees. As regards price(s) for allied services, if any, required with the goods, the same shall be quoted in Indian Rupees if such services are to be performed/ undertaken in India.

11.3 Tenders, where prices are quoted in any other way shall be treated as unresponsive and rejected.

### 12. Tender Prices

12.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified accordingly by the tenderer.

12.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.

12.3 The quoted prices for goods offered from within India (goods manufactured in India or goods of foreign origin already located in India) and that for goods of foreign origin offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.

12.4 While filling up the columns of the price schedule, the following aspects should be noted for compliance:

12.5 For goods offered from within India (goods manufactured in India or goods of foreign origin already located in India), the prices in the corresponding price schedule shall be entered separately in the following manner:]

- a) The price of the goods, quoted ex-factory, ex-showroom, ex-warehouse or off-the-shelf, as

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applicable, including Goods and services Tax, Customs duty or any other similar duties and taxes already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex- showroom etc.

- b) Goods and Services Tax, which will be payable on the goods in India if the contract is awarded.
- c) Charges towards inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and
- d) The price of incidental services, as and if mentioned in List of Requirements.

12.6 For goods of foreign origin offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:

- a) The price of goods quoted FAS / FOB port of shipment, CIF port of entry in India or CIF specified place of destination in India as indicated in the List of Requirements,
- b) Wherever applicable, the amount of custom duty and import duty on the goods to be imported.
- c) The charges for inland transportation, insurance and other local costs incidental to delivery of the goods from the port of entry in India to their final destination, as specified in the List of Requirements. and
- d) The charges for incidental services, as and if mentioned in the List of Requirements.

#### 12.7 Additional information and instruction on Duties and Taxes:

For goods offered from within India (goods manufactured in India or goods of foreign origin already located in India), if the Tenderer desires to ask for Goods and services Tax, Customs duty or any other similar duties and taxes to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

#### 12.8 Goods and Services Tax

- a) If reimbursement of Goods and Services Tax is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the tax applicable. In the absence of any such stipulation, it will be presumed that the prices quoted are firm and final and no claim on account of Goods and Services Tax will be entertained after the opening of tenders.
- b) If a Tenderer chooses to quote a price inclusive of Goods and Services Tax and also desires to be reimbursed for variation, if any, in the Goods and Services Tax during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of Goods and Services Tax included in its price. Failure to indicate all such details in clear terms may result in statutory variations being denied to the tenderer.
- c) Subject to sub clauses 12.8 (a) & (b) above, any change in Goods and Services Tax upward / downward as a result of any statutory variation in Goods and Services Tax taking place within original Delivery Period shall be allowed to the extent of actual quantum of Goods and Services Tax paid by the supplier. In case of downward revision in Goods and Services Tax, the actual quantum of reduction of Goods and Services Tax shall be reimbursed to BRBNMPL by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained

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by the supplier.

#### **12.9 Goods and Services Tax...contd...**

If a tenderer asks for GST to be paid extra, the rate and nature of such taxes applicable should be shown separately. Such taxes will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to such taxes and is payable as per the terms of the contract.

#### **12.10 Goods and Services Tax...contd...**

- (i) The tenderer should quote the exact percentage of GST that they will be charging extra.
- (ii) While quoting the rates, tenderers should pass on (by way of reduction in prices) the input tax credit that would become available to them by switching over to the new system of GST from the existing system of tax, duly stating the quantum of such credit per unit of the item quoted for.
- (iii) The tenderer while quoting for tenders should give the following declaration:  
"We agree to pass on such additional input tax credit as may become available in future in respect of all the inputs used in the manufacture of the final product on the date of supply under the GST scheme by way of reduction in price and advise the purchaser accordingly."
- (iv) The supplier while claiming the payment shall furnish the following certificate to the paying authorities:  
"We hereby declare that additional input tax credit to the tune of Rs... has accrued and accordingly the same is being passed on to the purchaser and to that effect the payable amount may be adjusted."

#### **12.11 Duties, taxes and other levies of Local bodies**

Unless otherwise stated in the SIT, the goods supplied against contracts placed by BRBNMPL are not exempted from levy of duties, taxes and other Levies of local bodies. In such cases, the supplier should make the payment to avoid delay in supplies and forward the receipt of the same to the purchasing department for reimbursement and, also, for further necessary action.

In cases where exemption is available, suppliers should obtain the exemption certificate from the purchasing department to avoid payment of such levies and taxes.

#### **12.12 Duties / Taxes on Raw Materials**

BRBNMPL is not liable for any claim from the supplier on account of fresh imposition and / or increase (including statutory increase) of Customs duty, Goods and Services Tax or any other similar duties and taxes on raw materials and/or components used directly in the manufacture of the contracted goods taking place during the pendency of the contract, unless such liability is specifically agreed to in terms of the contract.

#### **12.13 Imported Stores not liable to Above-mentioned Taxes and Duties:**

Above mentioned Taxes and Duties are not leviable on imported goods (goods of foreign origin offered from abroad) and hence would not be reimbursed.



**12.14 Customs Duty:**

In respect of imported goods of foreign origin offered from abroad, the tenderer shall specify the rate as well as the total amount of customs duty payable. The tenderer shall also indicate the corresponding Indian Customs Tariff Number applicable for the goods in question.

- 12141** For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 11 shall be followed.
- 12142** For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 12 shall be followed.
- 12143** Unless otherwise specifically indicated in this tender document, the terms FOB, FAS, CIF etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
- 12144** The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 12) is for the purpose of comparison of the tenders by BRBNMPL and will no way restrict BRBNMPL's right to award the contract on the selected tenderer on any of the terms offered.

**13. Authorized Dealer/Distributor/Representative**

Principal manufacturers/OEMs, manufacturers under license or their authorized Dealers/Distributors/Representatives who are exclusively appointed by the principal manufacturers/OEMs to represent them in the country shall be eligible to apply or to take part in the bid. One Principal manufacturer/OEM can authorize only one Dealer/ Distributor/Representative for a particular tender. Similarly, one authorized Dealer/ Distributor/Representative can represent only one Principal manufacturer/OEM in a particular tender. There can be only one bid from either: -

1. The Principal manufacturer/OEM directly; or
2. Any of its branch/division/subsidiary; or
3. Authorized Dealer/Distributor/Representative on behalf of the Principal manufacturer/OEM

**Note**

- (i) In a tender, either the Principal manufacturer/OEM or its authorized dealer/distributor/representative can bid but both cannot bid simultaneously in the same tender.
- (ii) In case the bidder is an authorized Dealer/Distributor /Representative, except in case of Commercially-Off-the-Shelf (COTS) items, then
  - (a) the bidder should have been associated as authorised dealer/ distributor/representative of the same or other Principal Manufacturer/OEM for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar 'Product' for past three years ending on 31<sup>st</sup> March (or any other year ending followed in relevant country) of the previous financial year; and
  - (b) the principal manufacturer/OEM should furnish a legally enforceable tender-specific authorisation in the prescribed form (Section XIV of SBD) assuring full guarantee and warranty obligations as per the general and special conditions of contract and to abide by other tender terms and conditions. The letter of authorisation should be signed by a person competent and

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- having the power of attorney to legally bind the manufacturer; and
- (ii) the principal manufacturer/OEM should meet all the pre-qualification criteria without exemption.
- (iii) For commercially off the shelf (COTS) items with clear and standard specifications, a valid dealership certificate will have to be submitted.

### **14. Firm Price / Variable Price**

- 14.1** Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- 14.2** In case the tender documents require offers on variable price basis, the price quoted by the tenderers will be subject to adjustment during original Delivery Period to take care of the changes in the cost of labour and material components in accordance with the price variation formula to be specified in the SIT. If a tenderer submits firm price quotation against the requirement of variable price quotation, that tender will be prima-facie acceptable and considered further, taking price variation asked for by the tenderer as zero.
- 14.3** However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 12 will apply for both firm price tender and variable price tender.
- 14.4** Subject to provisions of Clause 11 above, where prices are quoted in foreign currencies, involving imports - Foreign Exchange Rate Variation (ERV) would be borne by the Purchaser within the original Delivery Period. The offer of the Tenderer should indicate import content and the currency used for calculating import content.
- 14.5** Base Exchange rate of each major currency used for calculating FE content of the contract should be indicated. The base date of ERV would be contract date and variation on the base date can be given up to the midpoint manufacture, unless firm has already indicated the time schedule within which material will be imported by the firm.
- 14.6** In case delivery period is refixed /extended, ERV will not be admissible, if this is due to default of the supplier.
- 14.7** Documents for claiming ERV:
  - i. A bill of ERV claim enclosing working sheet
  - ii. Banker's Certificate/debit advice detailing FE paid and exchange rate
  - iii. Copies of import order placed on supplier
  - iv. Invoice of supplier for the relevant import order

### **15. Alternative Tenders**

Unless otherwise specified in the Schedule of Requirements, alternative tenders shall not be considered.

### **16. Documents Establishing Tenderer's Eligibility and Qualifications**

- 16.1** Pursuant to GIT clause 10, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.
- 16.2** The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:
  - a) In case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorized by the goods manufacturer to quote for and supply the goods to BRBNMPL. The tenderer shall submit the Manufacturer's Authorization Letter to this effect as per the standard form provided under Section XIV in this document.

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- b) The tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
- d) In case the tenderer is not doing business in India, it is / will be duly represented by an authorized Dealer/Distributor/Representative stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

**17. Documents establishing Good's Conformity to Tender document**

- 17.1** The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by BRBNMPL in the tender documents. For this purpose, the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by BRBNMPL in the tender documents to establish technical responsiveness of the goods and services offered in its tender.
- 17.2** In case there is any variation and/or deviation between the goods & services prescribed by BRBNMPL and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity along with justification, and provide the same along with its tender.
- 17.3** If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to BRBNMPL in this regard.

**18. Earnest Money Deposit (EMD)**

- 18.1** Pursuant to GIT clause 10.1(d) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect BRBNMPL against the risk of the Tenderer's unwarranted conduct as amplified under sub-clause 23.23.2 below.
- 18.2** The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Central Purchase Organisation or as a Micro and Small Enterprise (MSE) as defined in MSEs Order 2012 issued by Ministry of Micro, Small and Medium Enterprises (MSME) or as a Startup as recognised by Department for Promotion of Industry and Internal Trade (DPIIT), are exempted from payment of earnest money. In case the tenderer falls in these categories, it should furnish certified copy of its valid registration details (registration with CPO or as a MSE or as a Startup, as the case may be).  
Micro & Small Enterprises must attach Registration Certificate issued by DIC / KVIC / KVIB / Coir Board / NSIC / Directorate of Handicrafts and Handlooms, or any other body specified by MSME for authentication such as Udyog Aadhaar Memorandum / Acknowledgment.
- 18.3** The earnest money shall be denominated in Indian Rupees or in equivalent foreign exchange in case of GTE/ICB tenders.
- 18.4** The earnest money shall be furnished in one of the following forms:
  - a) Account Payee Demand Draft from any scheduled commercial bank in India  
or
  - b) Banker's cheque from any scheduled commercial bank in India or

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- c) Online Bank Transfer (Proof of online transfer to be submitted)
- d) Other Electronic Modes of Payment
  - Debit Card powered by RuPay
  - Unified Payments Interface (UPI) (BHIM-UPI)
  - Unified Payments Interface Quick Response Code (UPI QR Code) (BHIM-UPI QR Code)
- e) Bank Guarantee issued/confirmed by any scheduled commercial bank in India in the proforma given in Section XIII of SBD in case the amount is more than Rs.5 lakh and in case of foreign bidders in GTE/ICB tenders (in equivalent foreign exchange amount)

**18.5** The earnest money shall be valid for a period of forty-five days beyond the validity period of the tender.

**18.6** Unsuccessful tenderers' EMD will be returned to them without any interest whatsoever within 15 days of determination of the tenderers as unsuccessful after opening of Price Bid.

The successful bidder's EMD can be adjusted against the SD or returned as per the terms of the tender document. The balance can be deducted from the supplier's bill/invoice before release of payment. Unlike Procurement of Works, in Procurement of Goods, the concept of taking part of Performance Guarantee as money retained from first or progressive bills of the supplier is not acceptable.

**18.7** EMD of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. The successful tenderer's earnest money will be forfeited if it fails to furnish the required performance security within the specified period.

## **19. Tender Validity**

**19.1** If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 90 days (Ninety days) in case of single bid tender system and 120 days in case of two-bid system after the date of tender opening prescribed in the tender document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

**19.2** In exceptional cases, the tenderers may be requested by BRBNMPL to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/email/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly.

**19.3** In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for BRBNMPL, the tender validity shall automatically be extended up to the next working day.

**19.4** Compliance with the Clauses of this Tender Document: Tenderer must comply with all the clauses of this Tender Document. In case there are any deviations, these should be listed in a chart form without any ambiguity along with justification.

## **20. Signing and Sealing of Tender**

**20.1** An authenticated copy of the document which authorizes the signatory to commit on behalf of the firm shall accompany the offer. The individual signing the tender or any other documents connected therewith should clearly indicate his full name and designation and also specify whether he is signing,

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- (a) As Sole Proprietor of the concern or as attorney of the Sole Proprietor;
- (b) As Partner (s) of the firm;
- (c) As Director, Manager or Secretary in case the of Limited Company duly authorized by a resolution passed by the Board of Directors or in pursuance of the Authority conferred by Memorandum of Association.

**20.2** The authorized signatory of the tenderer must sign the tender at appropriate places and initial the remaining pages of the tender.

**20.3** The tenderers shall submit their tenders as per the instructions contained in GIT Clause

**20.4** Unless otherwise mentioned in the SIT, a tenderer shall submit two copies of its tender marking them as "Original" and "Duplicate".

**20.5** The original and other copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.

**20.6** All the copies of the tender shall be duly signed at the appropriate places as indicated in the tender documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

**20.7** The tenderer is to seal the original and each copy of the tender in separate envelopes, duly marking the same as "Original", "Duplicate" and so on and writing the address of BRBNMPL and the tender reference number on the envelopes. The sentence 'NOT TO BE OPENED' before (The tenderer is to put the date & time of tender opening) are to be written on these

envelopes. The inner envelopes are then to be put in a bigger outer envelope, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, BRBNMPL will not assume any responsibility for its misplacement, premature opening, late opening etc.

**20.8** For purchasing capital equipment, high value plant, machinery etc. of complex and technical nature, tender document will seek quotation in two parts (Two Bid System) - first part containing the relevant technical details of the equipment / machinery etc., and in the second part, price quotation along with other allied issues. First part will be known as 'Technical Bid', and the second part 'Financial bid'. Tenderer shall seal separately 'Technical Bid' and 'Financial bid' and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed and evaluation would be done as described in clause 25.24.4 below. Further details would be given in SIT, if considered necessary.

**20.9** If permitted in the SIT, the tenderer may submit its tender through e- tendering procedure.

## **D SUBMISSION OF TENDERS**

### **21. Submission of Tenders**

**21.1** Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at a place as indicated in para 1 of NIT. In case of bulky tender, which cannot be put into tender box, the same shall be submitted by the tenderer by hand to the designated officers of BRBNMPL, as indicated in clause 1 of NIT. The officer receiving the tender will give

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the tenderer an official receipt duly signed with date and time.

- 21.2** The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. In the event of the specified date for submission of tender falls on / is subsequently declared a holiday or closed day for BRBNMPL, the tenders will be received up to the appointed time on the next working day.

**22. Late Tender**

A tender, which is received after the specified date and time for receipt of tenders will be treated as "late" tender and will be ignored.

**23. Alteration and Withdrawal of Tender**

- 23.1** The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.
- 23.2** No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender besides other sanctions by BRBNMPL.

**E TENDER OPENING**

**24. Opening of Tenders**

- 24.1** BRBNMPL will open the tenders at the specified date and time and at the specified place as indicated in clause 1 of NIT. In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for BRBNMPL, the tenders will be opened at the appointed time and place on the next working day.
- 24.2** Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening, provided they bring with them letters of authority as per the format in SBD XVII from the corresponding tenderers. The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names & signatures and corresponding tenderers' names and addresses.
- 24.3** During the tender opening, the tender opening official(s) will read the salient features of the tenders like description of the goods offered, price, special discount if any, delivery period, whether earnest money furnished or not and any other special features of the tenders, as deemed fit by the tender opening official(s).
- 24.4** In the case of two bid system mentioned in clause 20.8 above, the technical bids are to be opened in the first instance, at the prescribed time and date. These bids shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the tender document. Thereafter, in the second stage, the financial bids of only the technically acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation. Other financial bids would be returned unopened to the respective bidders under Registered AD / Reliable Courier or any other mode with proof of delivery.

**F SCRUTINY AND EVALUATION OF TENDERS**

**25. Basic Principle**

Tenders will be evaluated on the basis of the terms & conditions already incorporated in the tender document, based on which tenders have been received and the terms, conditions etc. mentioned by the tenderers in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

**26. Preliminary Scrutiny of Tenders**

**26.1** The tenders will first be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the tender document, the tenders, that do not meet the basic requirements, are liable to be treated as unresponsive and ignored.

**26.2** The following are some of the important aspects, for which a tender may be declared unresponsive and ignored;

- a) Tender is not in the prescribed format or is unsigned or not signed as per the stipulations in the bid document.
- b) Tenderer is not eligible.
- c) Tender validity is shorter than the required period.
- d) Required EMD has not been provided or exemption from EMD is claimed without acceptable proof of exemption.
- e) Tenderer has quoted for goods manufactured by a different firm without the required authority letter from that manufacturer.
- f) Tenderer has not agreed to give the required performance security.
- g) Goods offered are sub-standard, not meeting the required specification etc.
- h) Tenderer has not agreed to essential condition(s) specially incorporated in the tender enquiry.
- i) Against a schedule in the List of Requirement (incorporated in the tender enquiry), the Tenderer has not quoted for the entire requirement as specified in that schedule. (Example: In a schedule, it has been stipulated that the Tenderer will supply the equipment, install and commission it and also train BRBNMPL 's operators for operating the equipment. The Tenderer has however, quoted only for supply of the equipment).

**27. Minor Infirmary / Irregularity / Non-Conformity**

If during the preliminary examination, BRBNMPL find any minor infirmity and / or irregularity and / or non-conformity in a tender, BRBNMPL may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the tenderers. Wherever necessary, BRBNMPL will convey its observation on such 'minor' issues to the tenderer by registered / speed post etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

**28. Discrepancy in Prices**

**28.1** If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price



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shall prevail and the total price corrected accordingly, unless BRBNMPL feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.

- 28.2** If there is an error in a total price, which has been worked out through addition and / or subtraction of subtotals, the subtotals shall prevail and the total corrected; and
- 28.3** If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 28.1 and 28.2 above.
- 28.4** If, as per the judgment of BRBNMPL, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of BRBNMPL, the tender is liable to be ignored.

### **29. Discrepancy between original and copies of Tender**

In case any discrepancy is observed between the text etc. of the original and that of other copies of the same tender set, the text etc. of the original shall prevail. Here also, BRBNMPL will convey its observation suitably to the tenderer by registered / Speed post and, if the tenderer does not accept BRBNMPL's observation, that tender will be liable to be ignored.

### **30. Clarification of Bids**

During evaluation and comparison of bids, purchaser may, at its discretion ask the bidder or clarification of its bid. The clarification should be received within 7 days from the bidder from date of receipt of such request. The request for clarification shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. No post bid clarification at the initiative of the bidder shall be entertained.

### **31. Qualification / Eligibility Criteria**

Tenders of the tenderers, who do not meet the required qualification / eligibility criteria prescribed in Section IX, will be treated as unresponsive and will not be considered further.

### **32. Conversion of tender currencies to Indian Rupees**

In case the tender document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the Bill Currency Selling exchange rates established by the State Bank of India for similar transactions, as on the date of tender opening.

### **33. Schedule-wise Evaluation**

In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender.

However, as already mentioned in GIT sub clause 12.2, tenderers have the option to quote for any one or more schedules and offer discounts for combined schedules. Such discounts, wherever applicable, will be taken into account to determine the tender or combination of tenders offering the lowest evaluated cost for BRBNMPL in deciding the successful tenderer for each schedule, subject to that tenderer(s) being responsive.

**34. Comparison on CIF/FOR Destination Basis**

Unless mentioned otherwise in Section - III - Special Instructions to Tenderers and Section - VI - List of Requirements, the comparison of the responsive tenders shall be on CIF/FOR destination basis, duly delivered, commissioned, etc. as the case may be.

**35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders**

**35.1** Further to GIT Clause 33 above, BRBNMPL's evaluation of a tender will include and take into account the following:

- a) In the case of goods offered from within India (goods manufactured in India or goods of foreign origin already located in India), Goods and Services Tax or any other similar duties and taxes, which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
- b) In the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.

**35.2** BRBNMPL's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.

**35.3** As per policies of the Government from time to time, the purchaser reserves its option to give price preference to Micro & Small Scale Industries in comparison to the large scale Industries. This price preference cannot however be taken for granted and every endeavour need to be made by such firms to bring down cost and achieve competitiveness.

**35.4** If the tenders have been invited on variable price basis, the tenders will be evaluated, compared and ranked on the basis of the position as prevailing on the day of tender opening and not on the basis of any future date.

**36. Tenderer's capability to perform the contract**

**36.1** BRBNMPL, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.

**36.2** The above mentioned determination will, inter-alia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of BRBNMPL as incorporated in the tender document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by BRBNMPL.

**37. Cartel Formation / Pool Rates**

Cartel formation or quotation of Pool / Co-ordinated rates, leading to 'Appreciable Adverse Effect on Competition' (AAEC) as identified in Competition Act, 2002, as amended by Competition (Amendment) Act, 2007, would be considered as a serious misdemeanor and would be dealt accordingly as per Clause 44 below.

**38. Negotiations**

Normally there would be no price negotiations. But BRBNMPL reserves its right to negotiate with the lowest acceptable bidder (L1), who is techno-commercially cleared/ approved for supply of bulk quantity and on whom the contract would have been placed but for the decision to negotiate, under special circumstances in accordance with CVC guidelines. Selection of contractors by negotiations should be a rare exception rather than the rule and may be resorted to only in the exceptional circumstances under the following circumstances:

- (i) Where the procurement is done on nomination basis (PAC and STE without PAC);
- (ii) Procurement is from a single or limited sources of supply;
- (iii) Procurements where there is suspicion of cartel formation.

**39. Contacting BRBNMPL**

- 39.1.** From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact BRBNMPL for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.
- 39.2.** It will be treated as a serious misdemeanor in case a tenderer attempts to influence BRBNMPL's decision on scrutiny, comparison, evaluation and award of the contracts. In such a case the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by BRBNMPL, in terms of clause 44 of GIT.

**G AWARD OF CONTRACT**

**40. BRBNMPL's Right to Accept any Tender and to Reject any or all Tenders**

BRBNMPL reserves the right to accept in part or in full any tender or reject any tender without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

**41. Award Criteria**

Subject to GIT clause 36 above, the contract will be awarded to the lowest evaluated responsive tenderer decided by BRBNMPL in terms of GIT Clause 34.

#### **42. Variation of Quantities at the Time of Award**

Normally, there will be no variation of quantities at the time of awarding the contract. However, at the time of awarding the contract, the quantity to be procured shall be re-judged based on the current data, since the ground situation may have very well changed. In that case, BRBNMPL reserves the right to increase or decrease the tendered quantity by 25 (Twenty-Five) per cent for ordering, if so warranted. A clause would be included in SIT giving further details.

#### **43. Parallel Contracts**

BRBNMPL reserves its right to conclude Parallel contracts, with more than one bidder (for the same tender). If this is foreseen at the time of Tendering, a clause would be included in SIT giving further details.

#### **44. Serious Misdemeanours**

##### **44.1. Following would be considered serious misdemeanours:**

- i. Submission of misleading / false / fraudulent information/ documents by the bidder in their bid
- ii. Submission of fraudulent / un-encashable Financial Instruments stipulated under Tender or Contract Condition.
- iii. Violation of Code of Ethics laid down in Clause 32 of the GCC.
- iv. Cartel formation or quotation of Pool / coordinated rates leading to "Appreciable Adverse Effect on Competition" (AAEC) as identified under the Competition Act, 2002.
- v. Deliberate attempts to pass off inferior goods or short quantities.
- vi. Violation of Fall Clause by Rate Contract holding Firms.
- vii. Attempts to influence BRBNMPL's Decisions on scrutiny, comparison, evaluation and award of Tender.

**44.2.** Besides, suitable administrative actions, like rejecting the offers or delisting of registered firms, BRBNMPL would ban / blacklist Tenderers committing such misdemeanor, including declaring them ineligible to be awarded BRBNMPL contracts for indefinite or for a stated period.

#### **45. Notification of Award**

**45.1** Before expiry of the tender validity period, BRBNMPL will notify the successful tenderer(s) in writing, by registered / speed post or by fax / email / telex / cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by BRBNMPL, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to BRBNMPL the required performance security within twenty-one days from the date of this notification. Relevant details about the performance security have been provided under GCC Clause 6 under Section IV.

**45.2** The notification of award shall constitute the conclusion of the contract.

#### **46. Issue of Contract**

**46.1** Within seven working days of receipt of performance security, BRBNMPL will send the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.

**46.2** Within seven days from the date of issue of the contract, the successful tenderer will return the original copy of the contract, duly signed and dated, to BRBNMPL by registered / speed post.

**47. Non-receipt of Performance Security and Contract by BRBNMPL**

Failure of the successful tenderer in providing performance security within 21 days of receipt of notification of award and / or returning contract copy duly signed in terms of GIT clauses 45 and 46 above shall make the tenderer liable for forfeiture of its EMD and, also, for further sanctions by BRBNMPL against it.

**48. Return of EMD**

The earnest money of the successful tenderer and the unsuccessful tenderers will be returned to them without any interest, whatsoever, in terms of GIT Clause 18.6.

**49. Publication of Tender Result**

The name and address of the successful tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/ web site of BRBNMPL.

**Part II: Additional General Instructions Applicable to Specific Types of Tenders:**

**50. Rate Contract Tenders**

**50.1** In addition to GIT in Part I above, following GIT will be applicable to rate contract Tenders:

- i. Earnest Money Deposit (EMD) is to be furnished by unregistered bidders only.
- ii. In the Schedule of Requirement, no commitment of quantity is mentioned; only the anticipated requirement is mentioned without any commitment.
- iii. BRBNMPL reserves the right to conclude more than one rate contract for the same item.
- iv. Unless otherwise specified in SIT, the currency of a Rate Contract would normally be for one year.
- v. During the currency of the Rate Contract, BRBNMPL may withdraw the rate contract by serving suitable notice. The prescribed notice period is generally thirty days.
- vi. During the currency of the Rate Contract, BRBNMPL would have the option to renegotiate the price with the rate contract holders.
- vii. During the currency of the Rate Contract, in case of emergency, BRBNMPL may purchase the same item through ad hoc contract with a new supplier.
- viii. Usually, the terms of delivery in rate contracts are FOR dispatching station.
- ix. Supply orders, incorporating definite quantity of goods to be supplied along with all other required conditions following the rate contract terms, will be issued by nominated Direct Demanding Officers (DDO) for obtaining supplies through the rate contract.
- x. BRBNMPL is entitled to place supply orders up to the last day of the validity of the rate contract and, though supplies against such supply orders will be affected beyond the validity period of the rate contract, all such supply will be guided by the terms & conditions of the rate contract.
- xi. The rate contract will be guided by "Fall Clause" as described below.

**50.2 Fall Clause**

If the rate contract holder reduces its price or sells or even offers to sell the rate contracted goods, following conditions of sale similar to those of the rate contract, at a price lower than the rate contract price, to any person or organization during the currency of the rate contract, the rate contract price will be automatically reduced with effect from that date for all the subsequent supplies under the rate contract and the rate contract amended accordingly. Any violation of the

fall clause would be considered a serious misdemeanor under clause 44 of the GIT and action, as appropriate, would be taken as per provision of that clause.

### **50.3 Performance Security**

Depending on the anticipated overall drawal against a rate contract and, also, anticipated number of parallel rate contracts to be issued for an item, the procuring entity shall consider obtaining Performance Security @ 5% (Five percent) of the value of supply order in the supply orders issued against rate contracts on the rate contract holder.

### **50.4 Renewal of Rate Contracts**

In case it is not possible to conclude new rate contracts before the expiry of existing ones, due to some special reasons, the existing rate contracts would be extended with same terms, conditions etc. for a suitable period, with the consent of the rate contract holders. Rate contracts of the firms, who do not agree to such extension, will be left out, Period of such extension would generally not be more than three months.

## **51. Prequalification Bidding**

- 51.1** Prequalification Bidding is for short listing of qualified Bidders who fulfil the Prequalification criteria as laid down in SIT or in Section IX of SBD - "Qualification Criteria" for procurement of Goods or Services as listed in Section VI of SBD - "List of Requirements". Short listed Bidders would be informed of their qualification and short listing in accordance with the stipulations laid down in the SIT. Unless otherwise stipulated in the SIT the PQB short listing would be valid only till the next procurement tender. Further conditions will be elaborated in the SIT.
- 51.2** If stipulated in the SIT, only these short listed qualified bidders would be invited to participate in the Procurement of the requirements. Otherwise SIT may also indicate that instead of floating a separate PQB tender, it maybe combined with the Procurement Tender, as a three bid tender. Initially the first Packet containing PQB would be opened and evaluation would be done. Thereafter the rest of tender would be handled as a two bid system for only those bidders who succeed in PQB.

## **52. Tenders involving Samples**

- 52.1** Normally no sample would be called along with the offer for evaluation.
- 52.2 Purchaser's Samples:** If indicated in the SIT, a Purchaser's sample may be displayed to indicate required characteristics over and above the Specifications for perusal of the bidders. Name and Designation of the Custodian, Place, Dates and Time of inspection of Purchaser's sample will be indicated in the SIT. The supplies in the contract will have to meet the indicated required characteristics for which the Purchaser's sample was displayed, besides meeting the specification listed in Section VII - "Technical Specifications" of the SBD. He would be issued a sealed Purchaser's sample for the purpose at the time of award of the contract.

- 52.3 Pre-Production Samples:** If stipulated in SIT, successful contractor would be required to submit a Pre-Production sample(s) to the Inspecting Officer/ or the nominated authority mentioned in the contract within the time specified therein. If the Contractor is unable to do so, he must apply immediately to the Office issuing the acceptance of tender for extension of time stating the reasons for the delay. If the Purchaser is satisfied that a reasonable ground for an extension of time exists, he may allow such additional time as he considers to be justified (and his decision shall be final) with or without alteration in the delivery period stipulated in the contract and on such conditions as he deems fit. In the event of the failure of the Contractor to deliver the pre-production sample by the date specified in the acceptance of tender or any other date to which the time may be extended as aforesaid by the Purchaser or of the rejection of the sample, the Purchaser shall be entitled to cancel the contract and, if so desired, purchase or authorize the purchase of the stores at the risk and cost of the Contractor (unless specified otherwise in the SIT). In such an event, in case of Security Items where urgency develops due to such delays, BRBNMPL reserves its right to procure not more than one year's requirement against this "Risk & Cost" tender from existing pre-qualified and security cleared firms. Bulk production and supply will only be allowed if this sample(s) pass the Tests laid down in the Section VIII "Quality Control Requirements" in the SBD.
- 52.4 Testing of Samples:** Tests, procedures and testing laboratories for testing samples would be detailed in the Section VIII - "Quality Control Requirements" in the SBD.
- 52.5 Validation / Prolonged Trials:** If specified in SIT or in the Section VIII - "Quality Control Requirements" in the SBD, pre-production samples may have to undergo validation or extended trial before their performance can be declared satisfactory.
- 52.6** Parameters Settings and duration of Validation Tests would be indicated in the Section VIII - "Quality Control Requirements" in the SBD. It would also stipulate the period or event marking end of validation trials. It would also be indicated therein whether the Permission to start bulk production will have to wait full validation or it can go on in parallel.
- 53. Expression of Interest (EOI) Tenders:**
- 53.1** EOI tenders are floated for short listing firms who are willing and qualified for: -
- Registration of Vendors for Supply of particular Stores or certain categories of Stores.
  - Development of new items or Indigenization of Imported stores
- 53.2** The qualification / eligibility criteria required and the format of submission of such Data would be indicated in the Section IX - "Qualification Criteria" in the SBD.
- 53.3** Objectives and scope of requirement would be indicated in the Section VI - "List of Requirements" in the SBD. Indicative quantity required yearly and its future requirements would also be indicated.
- 53.4** In case of EOI for Development of new Items or for Indigenization, prospective firms would be given opportunity to inspect the Machine / Item at the place of installation at the place, dates and Time mentioned in SIT.
- 53.5** In case EOI is for registration of vendors, Registration Fees and validity period of registration would be detailed in the SIT.
- 53.6 Short List of Suppliers:** The suppliers shall be evaluated for short listing, inter-alia, based on their past experience of supplying goods in similar context, financial strength, technical capabilities etc. Each supplier will be assigned scores based on weightages assigned to each of the criteria mentioned in the Section IX - "Qualification Criteria" in the SBD.
- 53.7** If stipulated in the SIT, the Firm's capacity and Capability may be assessed by a nominated Committee or by a third party nominated by BRBNMPL.



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- 53.8** All suppliers who secure the minimum required marks (normally 50% unless otherwise specified in the Section IX) would be short listed. Section IX may alternatively specify minimum qualifying requirement for each of the criteria i.e. minimum years of experience, minimum number of assignments executed, minimum turnover etc. Under such circumstances, all suppliers who meet the minimum requirement, as specified, will be short listed\_
- 53.9** In case of EOI for registration of vendors, registration letters would be issued to the short listed tenderers.
- 53.10** In case of EOI for development / indigenization, these shortlisted tenderers would only be allowed to participate in the subsequent development/ indigenization tenders.
- 54. Tenders for Disposal of Scrap**

**54.1** Introduction: The tender is for Sale of Scrap material lying at various locations. Details of scrap for sale including Description, Present Condition, Lot Size and its Location would be given in the Section VI - "List of Requirements".

**54.2** "As Is; Where Is; Whatever Is" Basis of This Sale:

- 54.2.1** This sale of Scrap is strictly on "As is; Where is; Whatever is" basis. Tenderer must satisfy himself on all matters with regard to quality, quantity, nature of stores etc., before tendering as no complaint or representation of any kind shall be entertained after the sale contract is concluded.
- 54.2.2** The description of lot in the particulars of sale has been given for the purpose of identification thereof only and the use of such description shall not constitute the sale thereof to be sale by description and no sale shall be invalid by reason of any defect or deviation or variation in any lot or on account of any lot not being exactly described and the purchaser shall not be entitled to claim any damage or compensation whatsoever on account of such fault, error in description, weight or the like.
- 54.2.3** All quantities of scrap whether by weight or measurement mentioned in the Tender notice are only approximate and should the quantity, on actual weight or measurement basis as the case may be and whenever delivered on such basis, works out less than the advertised and for projected quantity, the BRBNMPL shall not under any circumstances be liable to make good any such deficiency
- 54.2.4** BRBNMPL reserves right to increase or decrease the quantity of any item or items or terminate the contract at any stage by giving one week's notice. No claim whatsoever shall lie against the BRBNMPL on account of such termination of the contract or variation in the quantity.
- 54.2.5** BRBNMPL shall have the right to remove certain items which it feels were not intended for sale but were inadvertently made a part of the scrap material or of the lot offered for sale lying at the premises or were joined or attached to the material offered for sale.
- 54.2.6** Tenderers desirous of purchasing and participating in the tender must visit the site before submitting the offer, after taking due permission from the concerned Stock Holders. The Tenderers submitting the offers shall be deemed to have visited the site and acquainted themselves thoroughly with materials intended for sale in all respect.
- 54.2.7** Any person giving offer shall be deemed to have made himself fully conversant with the Terms and Conditions of the Tender Sale, as well as the location and condition of the materials being sold and shall be deemed to have agreed to all the stated terms and conditions herein under.

### **54.3 Submission of Offer**

- 54.3.1** Unless specified otherwise in the SIT, tenders shall hold good for acceptance for a minimum

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period of 90 days (ninety days) from the date of opening of the tenders. The offers of the tenderers shall be irrevocable.

54.3.2 The BRBNMPL reserves right to reject any offer without assigning any reason there for.

54.3.3 Unless otherwise stated in the SIT, the amount of EMD in such tenders would be 5% of the value of the tender. The Earnest Money shall be forfeited if the tenderer unilaterally withdraws amends, impairs or derogates from his offer in any respect within the period of validity of his offer.

54.3.4 If the offer of the tenderer is not accepted by the BRBNMPL, the Earnest Money deposit made by the tenderer shall be refunded to him. No interest shall be payable on such refunds. The EMD deposited by the successful tenderer shall remain with the BRBNMPL till payment of the security deposit (SD) money, as stipulated in relevant Clause, has been made. It may be adjusted as part of the total SD money at the discretion of the BRBNMPL.

54.3.5 Duties, taxes and other levies of local bodies, whatever in force, shall be payable extra by the purchaser as per rules applicable to BRBNMPL. Current and valid PAN and Goods and Services Tax Identification Number (GSTIN), wherever applicable, must be provided in the Bid of the Tenderer.

54.3.6 All arrangement for lifting and transportation of scrap material, including manpower, crane, transport vehicle and trolley etc., if required shall be made by the purchaser concerned only and the BRBNMPL shall not provide or help in providing any such arrangements and the rate quoted by the purchaser must include such and all incidental charges.

54.3.7 Registered dealers who are exempted from payment of Goods and Services Tax must give reference to Goods and Services Tax laws which provides such exemption or submit any certificate as issued by the Goods and Services tax authorities and shall be required to submit necessary form duly completed in all respect to BRBNMPL or its representatives before obtaining delivery order, duly signed by the partner of the firm or the person authorized to do so.

54.3.8 Evaluation of tenders for Disposal of scrap will be done on similar basis as Tenders for Procurement of Goods, except that the selection of the bidders shall be on the basis of the highest responsive Bidder (H1). In case full quantity is not offered to be taken by the Highest Bidder, parallel contracts would be placed.

### 54.4 Notification of Acceptance and Award of Contract:

54.4.1 The successful tenderer, herein after referred to as purchasers, shall have to submit security deposit (SD) @ 10% of the total sale value of the contract within 5 working days of issue of the sale contract (excluding the date of issue of sale contract). The SD shall be deposited in the form of account payee demand draft drawn on any scheduled commercial bank in India in favour of Bharatiya Reserve Bank Note Mudran Private Limited or through online transfer or through other electronic mode of payment as mentioned in clause 3 of NIT in connection with EMD.

54.4.2 The purchaser has to pay balance payment within 20 days from the date of notification of acceptance, which is to be issued by BRBNMPL or his authorized representative, in the form of account payee demand draft drawn on any scheduled commercial bank in India in favour of Bharatiya Reserve Bank Note Mudran Private Limited or through online transfer or through other electronic mode of payment. In case of any, default to deposit balance payment, BRBNMPL reserves right to terminate the contract and forfeit the security deposit.

### 54.5 Disposal Tenders for Security and Sensitive Machinery and Items:

54.5.1 **Non-Misuse Declaration:** The bidder is required to give an undertaking that he or his employees or legal heirs will ensure that such items purchased from BRBNMPL, will be utilized only for scrap

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recovery and will not be misused for any other purpose. He will also ensure that this undertaking is honoured and it got underwritten from further down the line scrap processors / re-purchasers, if any. In case his firm changes hands, it will be his responsibility to ensure that the new owners honour and underwrite this undertaking.

54.5.2 If stipulated in SIT delivery would be given only in dismantled / cut- up condition.

### **55. Development and Indigenization Tenders:**

**55.1** Already developed firms or firms who have already received development orders for the item (with whatever results) would not be considered in such tenders.

**55.2** If specified in SIT the contract documents may be issued free of cost, and submission of earnest money deposit and security deposit may be relaxed.

**55.3** If specified in SIT, The Tenderers may quote separately for

- i. Price / rate for bulk supply of item in development / indigenization supplies and
- ii. Separately, cost of development including cost of pre-production samples. Firms would be paid only for the number of samples specified in the Tender. If he has to manufacture more samples due to failure of earlier one, he would not be paid for it.

**55.4** L1 would be determined on the basis of rate of item quoted including reference to total cost of the development cost (including the cost of prototype) plus the notional total cost of quantities that will be required over next three years, wherever applicable.

**55.5** Development contracts may, as far as feasible, be concluded with two or more contractors in parallel.

**55.6** The ratio of splitting of the supply order between various development agencies / firms in cases of parallel development, including criteria thereof, would be specified in the SIT.

**55.7** However, in case the requirement is meagre and complex technology is involved, or quantity of the equipment / spares is limited/small/uneconomic if distributed between two vendors, the entire order could be placed upon the L1 vendor only.

**55.8** If specified in SIT, Advance and Intermediate Payment to Suppliers may be allowed.

**55.9** Quantity for Development Commitment

In Next three years, after the newly developed firm is able to successfully complete Development orders with  $\pm 5\%$  tolerances, 20% of annual quantity requirement may be reserved for Newly Developed firms.

**55.10** Period of Development Commitment

A newly developed firm would be granted this facility till only three years after completing the initial Development order. However, this facility is not a bar to the firm from competing with already established firms for quantities larger than 20% provided their prices and performance so warrant. Thereafter they would have to compete on equal terms with other already developed firms.

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION III: SPECIAL INSTRUCTIONS TO TENDERERS SIT**

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/ substitute/ supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

(Clauses of GIT listed below include a possibility for variation in their provisions through SIT. There could be other clauses in SIT as deemed fit.)

Sl. No.	GIT Clause No	Topic	SIT Provision
1	1 to 7	PREAMBLE-Introduction, Language of Tender, Eligible Tenderers, Eligible Goods and Services (Origin of Goods), Tendering Expense, Tender Documents, Amendments to Tender Documents.	No Change
2	8	Pre-bid conference	Not applicable to this tender
3	9 to 10	Time Limit for receiving request for clarification of Tender Documents, Documents comprising the tender.	No Change
4	11	Tender currencies	Bidders to quote the price in Indian Rupees (INR) only.
5	12 to 15	Tender prices, Indian Agent, Firm price, Alternative tenders	No Change
6	16	Documents Establishing tenderers eligibility and qualifications	No Change
7	17	Documents establishing goods conformity to tender document	No Change
8	18	Earnest Money Deposit (EMD)	No Change
9	19	Tender Validity (120 days in case of two-bid system after the date of tender opening prescribed in the tender document)	120 days from the date of opening of the tender, which can be further extended for another 30 days at the discretion of BRBNMPL.
10	20	Signing and Sealing of Tender Note: The following SIT provision is made with respect the following clause 20.4. Number of Copies of Tenders to be submitted: One copy only (duplicate copy not required) 20.9: E procurement:	No Change  No of copies – 01 no.  Not Permitted
11	21 to 23	Submission of Tenders, Late Tender, Alteration and Withdrawal of Tender	No Change
12	24	Opening of tenders	No Change
13	25	Basic principle	No Change
14	26 to 34	Preliminary Scrutiny of Tenders, Minor Infirmary / Irregularity / Non-Conformity,	No Change

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<b>Sl. No.</b>	<b>GIT Clause No</b>	<b>Topic</b>	<b>SIT Provision</b>
		Discrepancy in Prices, Discrepancy between original and copies of Tender, Clarification of Bids, Qualification / Eligibility Criteria, Conversion of tender currencies to Indian Rupees, Schedule-wise Evaluation, Comparison on CIF Destination Basis.	
15	35 to 42	Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders, Tenderer's capability to perform the contract, Tenderer's capability to perform the contract, Cartel Formation / Pool Rates, Negotiations, Contacting BRBNMPL, AWARD OF CONTRACT, Award Criteria, Variation of Quantities at the Time of Award,	No Change
16	43	Parallel Contracts	No Change
17	44 to 49	Serious Misdemeanours, Notification of Award, Issue of Contract, Non-receipt of Performance Security and Contract by BRBNMPL, Return of EMD, Publication of Tender Result	No Change
18	50	Rate Contract Tenders	No Change
19	51 to 55	PQB Tenders, Tenders involving Purchaser's and Pre-Production Samples, EOI Tenders, Tenders for Disposal of Scrap, Development / Indigenization Tenders	NA

**(To be signed & stamped and submitted along with Techno-commercial Bid Part –I)**

**SECTION IV: GENERAL CONDITIONS OF CONTRACT (GCC)**

**Part I: General Conditions of Contract applicable to all types of Tenders**

- 1. Definitions; Interpretation and Abbreviations:** In the contract, unless the context otherwise requires:

**1.1 Definitions and Interpretation:**

- (i) "Contract" means the letter or memorandum communicating to the Contractor the acceptance of this tender and includes "Intimation of Award" of his tender; "Contract" includes Bid Invitation, Instructions to Tenderers, Tender, Acceptance of Tender, General Conditions of Contract, Schedule of Requirements, particulars and the other conditions specified in the acceptance of tender and includes a repeat order which has been accepted or acted upon by the Contractor and a formal agreement, if executed;
- (ii) "Contractor" or "Supplier" means the individual or the firm supplying the goods and services. The term includes his employees, successors, authorized dealers/representatives, stockists and distributors. Other homologous terms are: Vendor, Firm, Manufacturer, OEM etc.;
- (iii) "Drawing" means the drawing or drawings specified in or annexed to the Specifications;
- (iv) "Government" means the Central Government or a State Government as the case may be;
- (v) The "Inspecting Officer" means the person, or organisation specified in the contract for the purpose of inspection of stores of work under the contract and includes his / their authorised representative;
- (vi) "Purchase Officer" means the officer signing the acceptance of tender and includes any officer who has authority to execute the relevant contract on behalf of the Purchaser;
- (vii) The "Purchaser" means BRBNMPL - the organization purchasing goods and services as incorporated in the documents;
- (viii) "Signed" includes stamped, except in the case of an acceptance of tender or any amendment thereof;
- (ix) "Test" means such test as is prescribed by the particulars or considered necessary by the Inspecting Officer whether performed or made by the Inspecting Officer or any agency acting under the direction of the Inspecting Officer;
- (x) The delivery of the stores shall be deemed to take place on delivery of the stores in accordance with the terms of the contract, after approval by the Inspecting Officer if so provided in the contract:
  - a. The consignee at his premises; or
  - b. Where so provided, the interim consignee at his premises; or
  - c. A carrier or other person named in the contract for the purpose of transmission to the consignee: or
  - d. The consignee at the destination station in case of contract stipulating for delivery of stores at destination station.
- (xi) "Writing" or "Written" includes matter either in whole or in part, in manuscript, typewritten, lithographed, cyclostyled, photographed or printed under or over signature or seal, as the case may be.
- (xii) Words in the singular include the plural and vice-versa.
- (xiii) Words importing the masculine gender shall be taken to include the feminine gender and words importing persons shall include any company or association or body of individuals, whether incorporated or not.
- (xiv) The heading of these conditions shall not affect the interpretation or construction thereof.
- (xv) Terms and expression not herein defined shall have the meanings assigned to them in the Indian Sale of Goods Act, 1930 (as amended) or the Indian Contract Act, 1872 (as amended) or the General Clauses Act, 1897 (as amended) as the case may be.
- (xvi) PARTIES: The parties to the contract are the "Contractor" and the "Purchaser", as defined above;
- (xvii) "Tender" means quotation / bid received from a firm / supplier.

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- (xviii) "Goods" means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, industrial plant etc. which the supplier is required to supply to BRBNMPL under the contract. Other homologous terms are: Stores, Materials etc.
- (xix) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- (xx) "Earnest Money Deposit" (EMD) means monetary guarantee to be furnished by a Tenderer along with its tender.
- (xxi) "Performance Security" means monetary guarantee to be furnished by the successful Tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit or Performance Bank Guarantee.
- (xxii) "Consignee" means the person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of dispatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.
- (xxiii) "Specification" or "Technical Specification" means the drawing/ document/standard that prescribes the requirement to which product or service has to conform.
- (xxiv) "Inspection" means activities such as measuring, examining, testing, analysing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- (xxv) "Day" means calendar day.



**1.2 Abbreviations:**

"AAEC"	means "Appreciable Adverse Effect on Competition" as per Competition Act
"BG"	means Bank Guarantee
"BL or B/L"	means Bill of Lading
"CD"	means Custom Duty
"CIF"	means Cost, Insurance and Freight Included
"CMD"	means Chairman and Managing Director
"CPSU"	means Central Public Sector Undertaking
"DDO"	means Direct Demanding Officer in Rate Contracts
"DGS&D"	means Directorate General of Supplies and Disposals
"DP"	means Delivery Period
"ECS"	means Electronic clearing system
"EMD"	means Earnest money deposit
"EOI"	means Expression of Interest (Tendering System)
"ERV"	means Exchange rate variations
"FAS"	means Free alongside shipment
"FOB"	means Freight on Board
"FOR"	means Free on Rail
"GCC"	means General Conditions of Contract
"GIT"	means General Instructions to Tenderers
"GST"	means Goods and Services Tax
"H1, H2 etc."	means First Highest, Second Highest Offers etc. in Disposal Tenders
Incoterms	means International Commercial Terms, 2000 (of ICC)
"L1, L2 etc."	means First or second Lowest Offer etc.
"LC"	means Letter of Credit
"LD or L/D"	means Liquidated Damages
"LSI"	means Large Scale Industry
"NIT"	means Notice Inviting Tenders.
"NSIC"	means National small industries corporation
"PQB"	means Pre-qualification bidding
"PSU"	means Public Sector Undertaking
"PVC"	means Price variation clause
"RC"	means Rate contract
"RR or R/R"	means Railway Receipt
"SBD" or "TD"	means Standard Bid Document / Tender Document
"SCC"	means Special Conditions of Contract
"SIT"	means Special Instructions to Tenderers
"BRBNMPL"	means Bharatiya Reserve Bank Note Mudran Private Limited
"SSI"	means Small Scale Industry

**2. Application**

**2.1** The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract (SCC) prescribed under Section V of this document.

**2.2** General Conditions of the contract shall not be changed from one tender to other.

**2.3 Other Laws and Conditions that will govern the Contract:**

Besides GCC and SCC following conditions and Laws will also be applicable and would be considered as part of the contract:

- i. Indian Contracts Act, 1872
- ii. Sale of Goods Act, 1930
- iii. Arbitration and Conciliation Act, 1996 read with the Arbitration and Conciliation (Amendment) Act, 2015
- iv. Competition Act, 2002 as amended by Competition (Amendment Act), 2007
- v. Contractor's Tender Submissions including Revised Offer during Negotiations if any
- vi. Conditions in other parts of the Tender Documents.
- vii. Correspondence including counter-offers if any; between the Contactor and BRBNMPL during the Tender Finalization
- viii. Notification of award and Contract Documents
- ix. Subsequent Amendments to the Contract

**3. Use of contract documents and information**

**3.1** The supplier shall not, without BRBNMPL's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of BRBNMPL in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this tender document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.

**3.2** During the process of procurement of Security or Sensitive Machinery and Items, Tender Documents and the specifications / drawings of such items would be issued only to Vendors having security clearance within the validity of such clearance and he shall maintain absolute secrecy and strictly control the number of copies and access to the documents and copies thereof, in addition to safeguards mentioned in sub-para above.

**3.3** Further, the supplier shall not, without BRBNMPL's prior written consent, make use of any document or information mentioned in GCC sub-clause 3.1 above except for the sole purpose of performing this contract.

**3.4** Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 3.1 above shall remain the property of BRBNMPL and, if advised by BRBNMPL, all copies of all such documents shall be returned to BRBNMPL on completion of the supplier's performance and obligations under this contract.

**4. Patent Rights**

**4.1** The supplier shall, at all times, indemnify BRBNMPL, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against BRBNMPL, BRBNMPL shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to BRBNMPL.

**5. Country of Origin**

**5.1** All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.

**5.2** The word "origin" incorporated in this clause means the place from where the goods are mined,

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cultivated, grown, manufactured, produced or processed or from where the services are arranged.

**6. Performance Bond / Security**

- 6.1** Within twenty-one days after the issue of notification of award by BRBNMPL, the supplier shall furnish performance security to BRBNMPL for an amount equal to ten per cent of the total value of the contract, valid up to sixty days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.
- 6.2** The Performance security shall be denominated in Indian Rupees or in the currency of the contract and shall be in one of the following forms:
- a Account Payee Demand Draft drawn on any scheduled commercial bank in India, in favour of Bharatiya Reserve Bank Note Mudran Private Limited as indicated in the clause 3 of NIT in reference to EMD.
  - b Bank Guarantee issued/confirmed by any scheduled commercial bank in India, in the prescribed form as provided in section XV of this document.
- 6.3** In the event of any loss due to supplier's failure to fulfil its obligations in terms of the contract, the amount of the performance security shall be payable to BRBNMPL to compensate BRBNMPL for the same.
- 6.4** In the event of any amendment issued to the contract, the supplier shall, within twenty-one days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 6.5** Subject to GCC sub-clause 6.3 above, BRBNMPL will release the performance security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations.

**7. Technical Specifications and Standards**

- 7.1** The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

**8. Packing and Marking**

- 8.1** The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 8.2** The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. in case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

**8.3 Packing instructions:**

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a) contract number and date
- b) brief description of goods including quantity
- c) packing list reference number
- d) country of origin of goods
- e) consignee's name and full address and
- f) supplier's name and address

**9. Inspection and Quality Control**

- 9.1** BRBNMPL and / or its nominated representative(s) will, without any extra cost to BRBNMPL, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. BRBNMPL shall inform the supplier in advance, in writing, BRBNMPL's programme for such inspection and, also the identity of the officials to be deputed for this purpose.
- 9.2** The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to BRBNMPL's inspector at no charge to BRBNMPL.
- 9.3** If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, BRBNMPL's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to BRBNMPL and resubmit the same to BRBNMPL's inspector for conducting the inspections and tests again.
- 9.4** In case the contract stipulates pre-despatch inspection of the ordered goods at suppliers' premises, the supplier shall put up the goods for such inspection to BRBNMPL's inspector well ahead of the contractual delivery period, so that BRBNMPL's inspector is able to complete the inspection within the contractual delivery period.
- 9.5** If the supplier tenders the goods to BRBNMPL's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to BRBNMPL under the terms & conditions of the contract.
- 9.6** BRBNMPL's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by BRBNMPL's inspector during pre-despatch inspection mentioned above.
- 9.7** Goods accepted by BRBNMPL and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute BRBNMPL's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause.

**10. Terms of Delivery**

- 10.1** Goods shall be delivered by the supplier in accordance with the terms of delivery specified in the contract.

**11. Transportation of Goods**

- 11.1** The supplier shall not arrange part-shipments and / or transshipments without the express / prior written consent of BRBNMPL.
- 11.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:** In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure.
- 11.3 Shipping Arrangement for Foreign Contracts:** In the case of FOB/FAS contracts, shipping arrangements shall be made by the Ministry of Shipping & Transport (Chartering Wing), New Delhi, INDIA, in accordance with details given in SBD Section XVIII. The Contractor shall give adequate, notice to the Forwarding Agents/Nominees about the readiness of the cargo from time to time and at least six weeks' notice in advance of the required position for finalising the shipping arrangements. In the case of CFR contracts, the Contractor shall arrange shipment in accordance

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with the requirements of the Ministry of Shipping & Transport, New Delhi, INDIA, indicated in the same SBD section (as applicable).

**12. Insurance:**

- 12.1** Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner.
- 12.2** In case of supply of domestic goods on CIF/FOR destination basis, the supplier shall be responsible till the entire stores contracted for arrive in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured. The insurance cover shall be obtained by the Supplier in its own name and not in the name of BRBNMPL or its Consignee.
- 12.3** In the case of FOB and CFR offers for import of Goods, insurance shall be arranged by the Purchaser. However, the supplier must give sufficient notice to the Purchaser prior to the date of shipment, so that the Insurance Cover for the shipment can be activated. The Supplier must co-ordinate so as to ensure that the Shipment sails only with Insurance cover in place.
- 12.4** In case of Import of Goods, even in case where the insurance is paid by the Purchaser, and loss or damage shall be made good by the Contractor free of cost, without waiting for the settlement of insurance claim. The payment after settlement of insurance claim shall be reimbursed by the Purchaser to the Contractor. It will be entirely the responsibility of the Contractor to make good loss/damage without waiting for settlement of insurance claim so that machine is commissioned within the time specified in the contract.

**13. Spare parts**

- 13.1** If specified in the List of Requirements and in the resultant contract, the supplier shall supply / provide any or all of the following materials, information etc. pertaining to spare parts manufactured and / or supplied by the supplier:
- a) The spare parts as selected by BRBNMPL to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
  - b) In case the production of the spare parts is discontinued:
    - i sufficient advance notice to BRBNMPL before such discontinuation to provide adequate time to BRBNMPL to purchase the required spare parts etc., and
    - ii immediately following such discontinuation, providing BRBNMPL, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by BRBNMPL.
- 13.2** Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to BRBNMPL promptly on receipt of order from BRBNMPL.

**14. Incidental services**

- 14.1** Subject to the stipulation, if any, in the SCC (Section V) and the Technical Specification (Section VII), the supplier shall be required to perform any or all of the following services:
- a) Providing required jigs and tools for assembly, start-up and maintenance of the goods
  - b) Supplying required number of operation & maintenance manual for the goods
  - c) Installation and commissioning of the goods
  - d) Training of BRBNMPL's operators for operating and maintaining the goods
  - e) Providing after sales service during the tenure of the contract
  - f) Providing maintenance service after expiry of the warranty period of the goods if so incorporated in the contract
- 14.2** Prices to be paid to the supplier by BRBNMPL for any of the required incidental services, if not already included in the contract price during the placement of the contract, shall be settled and decided in advance by BRBNMPL and the supplier. However, such prices shall not exceed the contemporary rates charged by the supplier to other customers for similar services.

**15. Distribution of Despatch Documents for Clearance / Receipt of Goods**

**15.1** The supplier shall send all the relevant despatch documents well in time to BRBNMPL to enable BRBNMPL to clear or receive (as the case may be) the goods in terms of the contract. Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows:

**15.2** For Domestic Goods, including goods already imported by the supplier under its own arrangement, within 24 hours of despatch, the supplier shall notify BRBNMPL, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract):

- (a) Supplier's Invoice indicating, inter alia description and specification of the goods, quantity, unit price, total value;
- (b) Packing list;
- (c) Insurance certificate;
- (d) Railway receipt / Consignment note;
- (e) Manufacturer's guarantee certificate and in-house inspection certificate;
- (f) Inspection certificate issued by BRBNMPL's inspector
- (g) Expected date of arrival of goods at destination and
- (h) Any other document(s), as and if specifically mentioned in the contract.

**15.3** For Imported Goods, within 3 days of dispatch, the supplier will Notify BRBNMPL, consignee and other concerned if mentioned in the contract, the complete details of dispatch and also supply the following documents to them by Courier (or as instructed in the Contract), besides advance intimation by Fax / email:

- (a) Clean on Board Airway Bill/Bill of Lading (B/L)
- (b) Original Invoice
- (c) Packing List
- (d) Certificate of Origin from Seller's Chamber of Commerce
- (e) Certificate of Quality and current manufacture from OEM
- (f) Dangerous Cargo Certificate, if any.
- (g) Insurance Policy of 110% if CIP/CIF contract.
- (h) Performance Bond / Warranty Certificate

**16. Warranty**

**16.1** The supplier warrants that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by BRBNMPL in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/ or the material used are as per BRBNMPL's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

**16.2** This warranty shall remain valid for twelve months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by BRBNMPL in terms of the contract or for fifteen months from the date of despatch from the supplier's premises for domestic goods (including goods already imported by the supplier under its own arrangement) or for eighteen months after the date of shipment from the port of loading in the source country for imported goods offered from abroad, whichever is earlier, unless specified otherwise in the SCC.

**16.3** In case of any claim arising out of this warranty, BRBNMPL shall promptly notify the same in writing to the supplier.

**16.4** Upon receipt of such notice, the supplier shall, with all reasonable speed (or within the period, if



Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore specified in the SCC), repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts / goods after providing their replacements and no claim, whatsoever shall lie on BRBNMPL for such replaced parts/ goods thereafter.

**16.5** In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified / replaced goods shall be extended to a further period of twelve months from the date such rectified / replaced goods starts functioning to the satisfaction of BRBNMPL.

**16.6** If the supplier, having been notified, fails to rectify / replace the defect(s) within a reasonable period (or within the period, if specified in the SCC), BRBNMPL may proceed to take such remedial action(s) as deemed fit by BRBNMPL, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which BRBNMPL may have against the supplier.

**17. Assignment**

**17.1** The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with BRBNMPL's prior written permission.

**18. Sub Contracts**

**18.1** The Supplier shall notify BRBNMPL in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.

**18.2** Sub contract shall be only for bought out items and sub-assemblies.

**18.3** Sub contracts shall also comply with the provisions of GCC Clause 5 ("Country of Origin").

**19. Modification of contract**

**19.1** Once a contract has been concluded, the terms and conditions thereof will generally not be varied. However, if necessary, BRBNMPL may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:

- (a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for BRBNMPL,
- (b) mode of packing,
- (c) incidental services to be provided by the supplier
- (d) mode of despatch,
- (e) place of delivery, and
- (f) any other area(s) of the contract, as felt necessary by BRBNMPL depending on the merits of the case.

**19.2** In the event of any such modification / alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/ or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by BRBNMPL, the supplier shall convey its views to BRBNMPL within twenty-one days from the date of the supplier's receipt of BRBNMPL's amendment / modification of the contract.

**19.3 Option Clause:** By a suitable provision in the SCC, the Purchaser may reserve the right to increase the ordered quantity by 25% at any time, till final delivery date of the contract, by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of Delivery Period.

**20. Prices**

**20.1** Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender or during negotiations, if any, and incorporated in the contract except for any price adjustment authorized



**21. Taxes and Duties**

- 21.1** Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to BRBNMPL.
- 21.2** Further instruction, if any, shall be as provided in the SCC.

**22. Terms and Mode of Payment:** Unless specified otherwise in SCC, the terms of payments would be as follows:

- 22.1** Unless otherwise specified in SCC, usual payment term is 100% on receipt and acceptance of goods by the consignee (Stores) and on production of all required documents by the supplier.

- 22.2 For Domestic Goods:** Unless otherwise specified in the SCC, payments to suppliers are usually made by account payee cheque or through ECS only.

- 22.2.1** Where the terms of delivery is FOR dispatching Station, the payment terms, depending on the value and nature of the goods, mode of transportation etc. maybe 60% to 90% (as specified in SIT) on proof of dispatch and other related documents and balance on receipt at site and acceptance by the consignee (Stores section).

- 22.2.2** Where the terms of delivery is delivery at site / FOR destination, usual payment term is 100% on receipt and acceptance of goods by the consignee (Stores section) and on production of all required documents by the supplier.

- 22.2.3** Where goods to be supplied also need installation and commissioning by the supplier, the payment terms are generally as under:

- (a) For a contract with terms of delivery as FOR dispatching station
  - i. 60% on proof of dispatch along with other specified documents
  - ii. 30% on receipt of the goods at site by the consignee (Stores section) and balance
  - iii. 10% on successful installation and commissioning and final acceptance by the consignee (User department)
- (b) For a contract with terms of delivery as Delivery at site/FOR destination
  - i. 90% on receipt and acceptance of goods by the consignee (Stores section) at destination and on production of all required documents by the supplier
  - ii. 10% on successful installation and commissioning and final acceptance by the consignee (User department)

- 22.3 For Imported Goods:** Unless otherwise specified in SCC, payments are made through an irrevocable Letter of Credit (LC).

- (a) Cases where Installation, Erection and Commissioning (if applicable) **are not the responsibility of the Supplier** - 90% net FOB/FAS/ CFR/CIF/CIP price is to be paid against invoice, shipping documents, inspection certificate (wherever applicable), manufacturers' test certificate, etc. and balance 10% on receipt of goods and after its suitability is ascertained by the consignee (User department).
- (b) Cases where Installation, Erection and Commissioning are the responsibility of the Supplier - 80% to 90% net FOB/FAS/CFR/CIF/ CIP price (as specified in the SCC) will be paid against invoice, inspection certificate (where applicable), shipping documents etc. and balance within 21-30 days of successful installation and commissioning at the consignee's premises and final acceptance by the consignee (User department).

- 22.4** Unless specified otherwise in the SCC, the following general conditions will apply for payment to the supplier.

- 22.5** The payment shall be made in the currency / currencies authorized in the contract.

- 22.6** The supplier shall send its claim for payment in writing as per Section XIX - "Proforma for Bill for Payments", when contractually due, along with relevant documents etc., duly signed with date, as specified in SCC and in a manner as also specified therein.
- 22.7** While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 22.8** The important documents which the supplier is to furnish while claiming payment are:
- Original Invoice
  - Packing List
  - Certificate of country of origin of the goods from seller's Chamber of Commerce.
  - Certificate of pre-dispatch inspection by BRBNMPL's representative / nominee
  - Manufacturer's test certificate
  - Performance / Warrantee Bond
  - Certificate of insurance
  - Clean on Bill of lading / Airway bill / Rail receipt or any other dispatch document, issued by a government agency (like postal department) or an agency duly authorized by the concerned ministry / department
  - Consignee's Certificate confirming receipt and acceptance of goods
  - Dangerous Cargo Certificate, if any, in case of imported goods.
  - Any other document specified.
- 22.9** While claiming reimbursement of duties, taxes Goods and Services Tax, Customs duty and any other similar duties and taxes from BRBNMPL, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to BRBNMPL. The supplier shall also refund the applicable amount to BRBNMPL immediately on receiving the same from the concerned authorities.
- 22.10** In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
  - Delay in supplies, if any, has been regularized.
  - The contract price where it is subject to variation has been finalized.
  - The supplier furnishes the following undertakings:  
"I/We, \_\_\_ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from BRBNMPL or the consignee about non-receipt, shortage or defects in the goods supplied. I / We agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment or six months from the date of dispatch whichever is later.
- 23. Delay in the supplier's performance**
- 23.1** The time for and the date specified in the contract or as extended for the delivery of the stores shall be deemed to be the essence of the contract and the supplier shall deliver the goods and perform the services under the contract within the time schedule specified by BRBNMPL in the List of Requirements and as incorporated in the contract.
- 23.2** Subject to the provision under GCC clause 28, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions besides any administrative action:
- Imposition of liquidated damages,
  - Forfeiture of its performance security and

c) Termination of the contract for default.

**23.3** If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform BRBNMPL in writing about the same and its likely duration and make a request to BRBNMPL for extension of the delivery schedule accordingly. On receiving the supplier's communication, BRBNMPL shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

**23.4** When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:

- a) BRBNMPL shall recover from the supplier, under the provisions of the clause 24 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract
- b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, Goods and Services Tax or on account of any other duties and taxes which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
- c) But nevertheless, BRBNMPL shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, Goods and Services Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.

**23.5** The supplier shall not despatch the goods after expiry of the delivery period. The supplier is required to apply to BRBNMPL for extension of delivery period and obtain the same before despatch. In case the supplier despatches the goods without obtaining an extension, it would be doingso at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against BRBNMPL.

**24. Liquidated damages**

**24.1** 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, BRBNMPL shall, without prejudice to other rights and remedies available to BRBNMPL under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the 0.5% 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.

**25. Custody and Return of BRBNMPL's Materials / Equipment / Documents loaned to Contractor**

**25.1** Whenever stores are required to be issued to the firm/contractor for fabrication or prototypes or sub-assemblies are issued for guidance in fabrication, these would be issued against appropriate Bank Guarantee as specified in SCC. In addition to the Bank Guarantee, appropriate insurance may be asked if specified in the SCC.

**25.2** All drawings and samples issued to the contractor in connection with the contract must be returned by him. Final payment will be withheld if this is not done, besides any other sanction deemed fit by BRBNMPL.

**26. Termination for default**

- 26.1** BRBNMPL, without prejudice to any other contractual rights and remedies available to it (BRBNMPL), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods and/or services or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by BRBNMPL pursuant to GCC sub- clauses 23.3 and 23.4.
- 26.2** In the event of BRBNMPL terminates the contract in whole or in part, pursuant to GCC sub-clause 26.1 above, BRBNMPL may procure goods and / or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit at the "Risk and Cost" of the supplier and the supplier shall be liable to BRBNMPL for the extra expenditure, if any, incurred by BRBNMPL for arranging such procurement.
- 26.3** Unless otherwise instructed by BRBNMPL, the supplier shall continue to perform the contract to the extent not terminated.

**27. Termination for insolvency**

- 27.1** In the event the supplier becomes bankrupt or otherwise insolvent or loses substantially the technical or financial capability (based on which he was selected for award of contract) or liquidation proceedings are commenced against it by a third party or by own volition, BRBNMPL reserves the right to terminate the contract, at any time, by serving written notice to the supplier, without any adverse consequence to BRBNMPL and without being liable to pay any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect any rights of action or remedies which have accrued or will accrue prior to termination or thereafter to BRBNMPL.
- 27.2** Upon such termination, BRBNMPL shall be deemed to be the owner of the stores/materials manufactured by the supplier and retain first right and lien over the stores/materials including the raw material purchased by the supplier for performance of the contract and require the stores/materials to be delivered under the contract, which is terminated on account of bankruptcy or insolvency or likely bankruptcy or insolvency of the supplier and such stores in possession of the supplier shall be earmarked and be delivered to BRBNMPL before the start of the bankruptcy or insolvency process.
- 27.3** In the event the supplier is aware or apprehends that it is likely to go into liquidation whether on account of liquidation proceedings commenced by a third party or by way of voluntary liquidation, then the supplier shall forthwith inform BRBNMPL as soon as it is aware that a third party has issued notice that it intends to commence liquidation proceedings or well before it files for liquidation.

**27.4 Escrow Arrangement**

The Supplier shall deposit with a third party escrow agent mutually agreed to by the parties, a copy of Software and its source code and object code for safe keeping with instructions for it to be released forthwith to BRBNMPL, in the event the Supplier fails to make the source code/object code accessible to BRBNMPL whenever required and/or in the event the Supplier is likely to go into liquidation or goes into liquidation.

In the event, the Supplier apprehends that it is likely to go into liquidation whether on account of liquidation proceedings commenced by a third party or in the event it anticipates filing for bankruptcy, then the Supplier shall inform BRBNMPL in advance and engage with it to determine the sale and possession of BRBNMPL's software and its source code. In the event Supplier fails to do so, the third party escrow agent shall be instructed under the Escrow Agreement to release the Software and its source code to BRBNMPL as noted above.

For the purpose of this Clause, the term '*Software*' shall collectively mean, the full and final version of the Software to be delivered to BRBNMPL in source code and object code forms, together with any and all improvements, corrections, modifications, updates, enhancements or

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other changes, whether or not included in the full and final version including all System Documentation and User Documentation.

The term '*System Documentation*' shall mean any and all documentation used in the development and updating of the Software, including but not limited to, customer requirements and specifications design or development specifications, test and error reports, and related correspondence and memoranda. And the term '*User Documentation*' shall mean the end-user instruction manual that usually accompanies the Software instructing end users in the use of the Software in both printed and electronic form.

## **28. Force Majeure**

- 28.1** In the event of any unforeseen event directly interfering with the supply of stores arising during the currency of the contract, such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the Contractor shall, within a week from the commencement thereof, notify the same in writing to the Purchaser with reasonable evidence thereof. Unless otherwise directed by BRBNMPL in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. If the force majeure condition(s) mentioned above be in force for a period of 90 days or more at any time, either party shall have the option to terminate the contract on expiry of 90 days of commencement of such force majeure by giving 14 days' notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other, save and except those which had occurred under any other clause of this contract prior to such termination.
- 28.2** Notwithstanding the provisions contained in GCC clauses 23, 24 and 26, the supplier shall not be liable for imposition of any such sanction so long the delay and / or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.
- 28.3** In case due to a Force Majeure event BRBNMPL is unable to fulfil its contractual commitment and responsibility, BRBNMPL will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

## **29. Termination for convenience**

- 29.1** BRBNMPL reserves the right to terminate the contract, in whole or in part for its (BRBNMPL's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of BRBNMPL. The notice shall also indicate inter-alia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.
- 29.2** The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by BRBNMPL following the contract terms, conditions and prices. For the remaining goods and services, BRBNMPL may decide:
- a to get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
  - b to cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

## **30. Governing language**

- 30.1** The contract shall be written in Hindi or English language following the provision as contained in GIT clause 2. All correspondence and other documents pertaining to the contract, which the

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parties exchange, shall also be written accordingly in that language.

**31. Notices**

**31.1** Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing, the procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.

**31.2** The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

**32. Code of Ethics**

BRBNMPL as well as Bidders, Suppliers, Contractors, and Consultants under BRBNMPL contracts shall observe the highest standard of ethics during the procurement or execution of such contracts. In pursuit of this policy, for the purposes of this provision, the terms set forth below are defined as follows:

- (a) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
- (b) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
- (c) "Collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Purchaser, designed to establish bid prices at artificial, non-competitive levels; and
- (d) "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.
- (e) A particular violation of ethics may span more than one of above mentioned unethical practices.

**32.1** The following policies will be adopted in order to maintain the standards of ethics during procurement:

- (a) A proposal for award will be rejected if it is determined that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.
- (b) A contract will be cancelled if it is determined at any time that BRBNMPL representatives / officials have directly or indirectly, engaged in corrupt, fraudulent, collusive or coercive practices during the procurement or the execution of that contract
- (c) In case any individual staff is found responsible, suitable disciplinary proceedings should be initiated against such staff under the applicable government conduct rules. The existing provisions under the Indian law including the instructions of Central Vigilance Commission should be followed in this regard.
- (d) Firms or individuals shall be banned / blacklisted after following due process, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded a BRBNMPL contract, if it at any time determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a BRBNMPL contract.
- (e) Bidders have to sign an Integrity Pact in tenders meeting the criteria of threshold value / nature of procurement. Integrity Pact format shall be included in the Bid Document as Section XX. Each page of such Integrity pact proforma would be duly signed by Purchaser's competent signatory. All pages of the Integrity Pact will have to be duly signed by the same signatory who is duly authorized to sign the bid and to make binding commitments on behalf of his company and to be



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submitted along with the technical bid. Any bid not accompanied by Integrity Pact duly signed by the bidder shall be considered to be a non-responsive bid and shall be rejected straightway.

**33. Resolution of disputes**

**33.1** If dispute or difference of any kind shall arise between BRBNMPL and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations. If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either BRBNMPL or the supplier may seek recourse to settlement of disputes through arbitration as per The Arbitration and conciliation Act 1996 as per following clause.

**33.2 Arbitration Clause:** If both parties fail to reach such amicable settlement, then either party (the Purchaser or Seller) may within 21 days of such failure give a written notice to the other party requiring that all matters in dispute or difference be arbitrated upon. Such written notice shall specify the matters which are in difference or of difference of which such written notice has been given and no other matter shall be referred to the arbitration in accordance with the conciliation and arbitration rules of International Chamber of Commerce {ICC}/United National Commission on International Trade Law (UNCITRL) by three arbitrators appointed in accordance with the procedure set out in clause below. The arbitration proceeding shall be held in Bangalore/Mysore/Kolkata and shall be conducted in English language. All documentation to be reviewed by the arbitrators and / or submitted by the parties shall be written or translated into English. Venue of arbitration shall be Bangalore/Mysore/Kolkata. The arbitrator or arbitrators appointed under this article shall have the power to extend time to make the award with the consent of the parties. Pending reference to arbitration the parties shall make all endeavours to complete the contract/work in all respects and all disputes, if any, will finally be settled in the arbitration.

**34. Applicable Law**

**34.1** The contract shall be interpreted in accordance with the laws of India.

**34.2** Irrespective of the place of delivery, or the place of performance or the place of Payments under the contract, the contract shall be deemed to have been made at the place from which the notification of acceptance of the tender has been issued.

**35. Secrecy**

**35.1** The Contractor shall take all reasonable steps necessary to ensure that all persons employed in any work in connection with the contract, have full knowledge of the Official Secrets Act and any regulations framed thereunder.

**35.2.** Any information obtained in the course of the execution of the contract by the Contractor, his servants or agents or any person so employed, as to any matter whatsoever, which would or might be directly or indirectly, of use to any enemy of India, must be treated secret and shall not at any time be communicated to any person.

**35.3.** Any breach of the aforesaid conditions shall entitle the Purchaser to cancel the contract and to purchase or authorise the purchase of the stores at the risk and cost of the Contractor, In the event of such cancellation, the stores or parts manufactured in the execution of the contract shall be taken by the Purchaser at such price as he considers fair and reasonable and the decision of the Purchaser as to such price shall be final and binding on the Contractor.

**Part II: Additional General Conditions of Contract for specific Types of Tenders in addition / modification to clauses mentioned above:**

**36. Disposal / Sale of Scrap by Tender**

**36.1** During the currency of contract, no variation in price or rate shall be admissible.

**36.2 Payment and Default**

**36.2.1** Payment may be made in the form of cash or Account Payee Demand Draft drawn on any scheduled commercial bank in India in favour of Bharatiya Reserve Bank Note Mudran Private Limited or through Online Transfer or through other Electronic Mode of Payment as mentioned in the NIT.



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- 3622 No interest will be paid to the purchaser for the amounts paid or deposited with the BRBNMPL and subsequently found refundable to the purchaser under any of the conditions of the contract.
- 3623 If the purchaser fails to deposit sale value for a sold lot within the allowed period as per relevant clause BRBNMPL may forfeit the security deposit. Requests for an extension of this period, made by the purchaser may be considered by the BRBNMPL and may at its discretion, on the merits of the case, allow further time not excluding 50 days from the date of the contract. Interest shall be leviable on such amount at a rate 2% per annum higher than the PLR of State Bank of India, from the date of expiry of the payment date to actual date of payment (actual date of payment inclusive).
- 3624 The lot or lots in respect of which forfeiture has been made, shall be deemed to have been abandoned by the purchaser to all intents and purposes and may be re-sold or otherwise disposed of at the discretion of the BRBNMPL without reference to the purchaser concerned and without incurring any liability on part of BRBNMPL whatsoever in respect there under.
- 3625 In case extension is granted by BRBNMPL and due to late payment of sale amount the delivery cannot be completed by the purchaser, in accordance with the relevant clause of Special Conditions of Tender sale, then ground rent shall also be leviable as per relevant clause of Special Conditions of Tender sale.
- 3626 On production of proof of having made payment, nominated authority shall issue a delivery order authorizing the purchaser to take delivery of the Scrap Materials.

**36.3 Deliveries, Delays and Breach of Contact**

- 3631 The Title of goods or material sold shall not be deemed to have been passed to the Purchaser / Bidder until and unless the full and final payment has been made by the purchaser, in accordance with the contract to the BRBNMPL and the authorized Officer has issued the Delivery Order in favour of the purchaser. The materials sold may be removed from the premises only on production of the cash receipt for the payment and a delivery order from the Officer authorized by the BRBNMPL.
- 3632 Unless specified otherwise in SIT, delivery period for lifting of material shall be within 60 days from the date of finalization of contract agreement.
- 3633 The work of delivery will be supervised by Stock Holder or his authorized representative, representative of accounts Department and Security Staff duly authorized by BRBNMPL for the propose of delivery. Delivery will be allowed during working hours.
- 3634 No delivery of or materials sold shall be given on Sundays, Gazetted holidays and other shall holidays observed by BRBNMPL. The delivery of the goods or material shall be effected from the premises concerned only during its normal working hours. In order to complete the delivery within the working hours all loading must cease half an hour before the normal closing time of the concerned premises. The decision of the BRBNMPL with regard to the working hour shall be final and binding on the purchaser. Purchaser will not be allowed to lift the Scrap Material from more than one location at a time.
- 3635 The purchased stores will be carried away by the purchaser at his risk and no claims against the BRBNMPL will be entertained for shortage in weight which may be discovered after the materials have left the premises wherefrom delivery is taken. If required the purchaser shall provide his own bags, cases or other receptacles for the removal of the scrap.
- 3636 The BRBNMPL shall not be responsible for any accident that may occur to purchaser's labours/servants for any reasons whatsoever. The purchaser will himself have to ensure the safety of his workers and shall be liable to pay claims, whatsoever if any. BRBNMPL will not carry any responsibility of such payments. The purchaser will be responsible to supply personal protection equipment to his labour/servant and staff and no additional charges are admissible for the same.
- 3637 The materials sold, shall be removed by the purchaser within the period specified in relevant clause of Special Condition of Sale.
- 3638 If due to any default on the part of the BRBNMPL, the purchaser is unable to remove the materials sold within the specified period, the BRBNMPL may extend the period therefore and in such an event purchaser will be entitled to take delivery of the goods or the materials sold within such

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extended Delivery period.

- 36.3.9 If contractor fails to lift sold scrap within the specified period, penalty shall be levied at the rate of 0.5% per day of the value of un-removed Scrap. Moreover, the material shall remain at the purchaser's risk until removal thereof. Further BRBNMPL will be entitled to charge the ground rent as stated in relevant Para of SCC, for the area in which the materials sold are kept or stored - which would be recovered by the BRBNMPL from the Purchaser before removal of the material and in the event of default in payment thereof, the BRBNMPL at may its discretion shall be entitled to order the re-sale of such materials and forfeit the Security deposit or sale amount or both, paid by the purchaser.
- 36.3.10 If the purchaser makes slow progress with his contract and the BRBNMPL is of opinion that he may fail to fulfil the contract within the time specified in the conditions of sale, it will be lawful for the BRBNMPL to cancel the whole contract or such portion thereof as may not have been completed and the BRBNMPL shall be at liberty to dispose of the goods in any manner at the risk and expense of the purchaser.
- 36.3.11 The purchaser will have to comply with the provisions of the Contract Labour (Regulations and Abolition Act 1970 and Central Rules 1971 and obtain license from the Assistant Labour Commissioner or the competent authorities empowered to issue such license. Any failure on the part of the purchaser in this regard will be at his risk and consequences. He shall comply with Workman's Compensation Act 1923, Payment of Wages Act 1936, and Minimum Wages Act 1948 and all the other related statutory and legal provisions and obligations, the purchaser shall also indemnify the BRBNMPL against any claim / liabilities that may occur to the contractor's labours and servants due to any reasons whatsoever.

If the purchaser makes default in complying with any of the condition of the contract, the sale of lot or lots in respect of which such default is made may be cancelled and such lot or lots may be put up again for sale and in such an event if a lower price is offered and accepted for such lot or lots then the purchaser shall be liable to pay the difference in price thereof together with all expenses occasioned by such resale in default to the BRBNMPL provided further that the purchaser in default shall not be entitled to claim any profit which may arise from such resale.

**(To be signed & stamped and submitted along with Techno-commercial Bid Part –I)**

**SECTION V: SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below. These Special Conditions will modify / substitute / supplement the corresponding (GCC) clauses.

Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

(Clauses of GCC listed below include a possibility for variation in their provisions through SCC. There could be other clauses in SCC as deemed fit)

Sl. No.	GCC Clause No	Topic	SCC Provision
1	1 to 5	Definitions; Interpretation and Abbreviations, Application, Use of contract documents and information, Patent Rights, Country of Origin	No Change
2	6	Performance Security	No Change
3	7 to 15	Technical Specifications and Standards, Packing and Marking, Inspection and Quality Control, Terms of Delivery, Transportation of Goods, Insurance, Spare parts, Distribution of Dispatch Documents for Clearance/ Receipt of Goods	No change
4	16	Warranty	No Change
5	17 & 18	Assignment, sub contracts	No change
6	19	Modification of contract	No change
7	20 & 21	Prices, Taxes and duties	No change
8	22	Terms and mode of payment	No change
9	22.1	Terms and mode of payment	<b>Running Account Bill of Min. executed work Value of Rs 20.00 Lakhs may be claimed.</b>
10	23 to 32	Delay in the supplier's performance, Liquidated damages, Custody and Return of BRBNMPL's Materials/ Equipment/ Documents loaned to Contractor, Termination for default, Termination for insolvency, Force Majeure, Termination for convenience, Governing language, Notices, Code of Ethics,	No change

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<b>Sl. No.</b>	<b>GCC Clause No</b>	<b>Topic</b>	<b>SCC Provision</b>
11	33	Resolution of disputes	<p>The court of Mysuru (Karnataka State) only shall have jurisdiction to deal with and decide any legal matter of dispute whatsoever arising out of any LOI/ Work order placed by BRBNMPL.</p> <p>Arbitration proceedings will be held at Mysuru and venue of arbitration will be Mysuru.</p>
12	34-35	Applicable Law, Secrecy,	No change
13	36	Disposal / Sale of Scrap by Tender	Not applicable to this tender
14	Special Condition	Site Visit	The bidder should visit the site to make them conversant with the site condition and actual scope of work before submitting tender. For any clarification bidder may contact this office on any working day during working hours before submission of tender paper. Authorization paper must be displayed for any person visiting on behalf of contractor. Once tender is submitted, it will be implied that the contractor has fully understood the detail specifications, site condition and scopes of work. After quoting ignorance regarding these will not be entertained.
15	Special Condition	Initial Security Deposit	EMD submitted, if any along with the Tender Paper, shall be converted into Initial Security Deposit. This amount will be adjusted with the performance Security Deposit and shall be released along with the Security Deposit. In such case, no interest will be paid on Initial Security Deposit.
16	Special Condition	Security Deposit	The successful bidder, to whom Work Order is issued, shall furnish Security Deposit @ <b>10%</b> of Contract Value less EMD amount, if any in the form BG/ Account payee Demand Draft favouring of Bharatiya Reserve Bank Note Mudran Private Limited payable at Mysuru or Bank Guarantee as per attached format of BG Section -XIII within 21 days of after notification for Award of work/L.O.I. This guarantee will remain in force for a period of sixty days beyond the period of contract validity.
17	Special Condition	Release of Security Deposit	After expiry of Defects Liability Period and Completion of all contractual obligations of the civil contractor against works undertaken.

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<b>Sl. No.</b>	<b>GCC Clause No</b>	<b>Topic</b>	<b>SCC Provision</b>
18	Special Condition	Refusal of Work	If the bidder fails or refuses to provide the services on becoming successful bidder, due to any reason whatsoever or left the work in incomplete condition after starting the work, Security Deposit / E.M.D. will be forfeited and the party is liable for not being allowed for any tendering for a period as decided by the company/ any other action as deemed fit.
19	Special Condition	Contract Agreement	A formal agreement has to be executed between the contractor and BRBNMPL on Rs. 100/-Non-judicial stamp paper purchased by the contractor within two weeks of submission of Security Deposit/Performance Bond as per the format given in SECTION-XVI. In case Contractor fails to complete the formalities for execution of agreement, Work Order shall be cancelled. In such case, EMD / SD of the contractor shall be forfeited and BRBNMPL may initiate appropriate action as deemed fit. All terms & conditions of this NIT shall be treated as part & parcel of the contract.
20	Special Condition	Completion Period	Time is the essence of this contract. Work shall be completed within Five Months from the date of issue of L.O.I./Work Order, whichever is earlier. The completion time as mentioned above shall strictly be adhered to by the contractor. Delay without any valid reason shall attract liquidated damages @ 0.5% of consultancy fee for delay per week up to a maximum of 10% of delayed works.
21	Special Condition	Liquidated Damages	If the contractor fails to complete the work within the time frame as incorporated in the contract, BRBNMPL shall, under the contract, may deduct from the contract price, as liquidated damages, a sum equivalent to the 0.5% of the delayed contract value for each week of delay or part thereof until actual completion, subject to a maximum deduction of 10% of the delayed contract value.

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<b>Sl. No.</b>	<b>GCC Clause No</b>	<b>Topic</b>	<b>SCC Provision</b>
22	Special Condition	Defects Liability Period	Defects Liability Period shall be 12 (twelve) months from the date of completion of works. Any defect noticed during the DLP shall be rectified by the contractor at his own cost. In case of default by the contractor, BRBNMPL may get the defects rectified by engaging other person and make payment for the same and all expenses thus incurred shall be at the risks and costs of the contractor.
23	Special Condition	Optional Clause/Repeat Order	Quantities mentioned in the Schedule of Items are approximate and may vary as per actual work done/ site requirement; Contractor shall not claim any extra rate on this account. BRBNMPL reserves the right to increase the ordered quantity by 25% at any time, till final delivery date of the contract, by giving reasonable notice even though the quantity ordered initially has been supplied/executed in full before the last date of Delivery/completion Period. BRBNMPL may place repeat order upto 50% of order value including Option Clause (exercised if any), at a later date on mutual consent, at the quoted rates within six months from date of successful completion of the work.
24	Special Condition	Extra Items in the works	Any extra items that are found to be necessary during the course of execution of work, the same shall have to be executed by the contractor with written instruction from BRBNMPL. The rates for the same shall be derived from KPWD/CPWD Schedule of rates or Market rates (for items which are not available in the schedule of rates).
25	Special Condition	Running Account Bill	Contractor may submit Running Account Bill as per the tender conditions.
26	Special Condition	Final Bill	The final bill shall be submitted by the Contractor within 1 (one) month from the date of completion of the works. The final bill submitted by the Contractor shall be processed for payment only after receipt of "No Claim No Due Certificate" and the clearance of site of all rubbish, debris, vats, tanks, materials, temporary structures and handing over the site in a tidy and clean condition to the BRBNMPL.

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Sl. No.	GCC Clause No	Topic	SCC Provision
27	Special Condition	Indemnity	The Contractor shall indemnify the Purchaser from and against all actions, suits claims and demands brought or made against the Purchaser in respect of any matter or thing done or omitted to be done by the Contractor or any of his Sub-Contractor(s) or nominated Sub-Contractor(s) or their employees or workmen in the execution of or in connection with the Works of this Contract and against any loss or damage to the Purchaser in consequence of any action or suit being brought against the Contractor or any of his Sub-Contractor(s) or nominated Sub-Contractor(s) or their employees or workmen for anything done or omitted to be done in the execution of the Works under this Contract.
28	Special Condition	Correction of Work Before Virtual Completion of Works	The Purchaser, its representatives shall jointly conduct an extensive inspection just prior to the Virtual Completion of the Works and shall prepare a list of materials, equipment, and workmanship which are defective or damaged or of substandard quality or improperly executed or generally unacceptable due to not being in conformity with the requirements stipulated in the Contract Documents. The Contractor shall promptly remove, replace, re-execute, rectify and make good, to conform to the requirements stipulated in the Contract Documents and to the satisfaction of all concerned, all such materials, equipment, and / or workmanship included or itemised in the said list and the Contractor shall bear and pay for all expenses in connection therewith and consequent thereon and incidental thereto, including the cost for all remedial work on the work of other Contractors destroyed or damaged by such removal, replacement, re- execution, rectification and making good. If the Contractor fails to remove, replace, re-execute, rectify and make good the rejected materials equipment, and/ or workmanship within a reasonable time, fixed by written notice, Purchaser may employ and pay other persons or agencies



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<b>Sl. No.</b>	<b>GCC Clause No</b>	<b>Topic</b>	<b>SCC Provision</b>
			to carry out such removal, replacement, re-execution, rectification and making good and all expenses incurred in connection therewith, including all damages, losses and expenses consequent thereon and incidental thereto shall be recovered from the Contractor and shall be deducted by Purchaser from any money that may be payable or that may become payable to the Contractor.
29	Special Condition	Statutory obligations and effective regulations	<p>a. i) ESI to all of his workmen engaged for the said job to be obtained compulsorily.</p> <p>ii. Third Party Insurance (Public Liability Insurance) to cover for any damages to the third party. This shall be upto the end of the DLP and shall include any damage to the properties and/or injury including death to persons of the general public or anyone else deemed to be third party.</p> <p>b) Contractor to indemnify the Employer against all claims, damages &amp; compensation under the provisions of the Workmen's Compensation Act 1923, payment of wages Act 1938, Fatal Accident Act, apprentices Act 1961, Industrial disputes Act 1947, Contract Labour &amp; Regulation Act 1970 and other relevant Acts listed elsewhere. This shall be for the period upto Final Completion of work including DLP.</p>
30	Special Condition	Termination	If the Contractor shall be adjudged bankrupt or if he should make a general assignment for the benefit of his creditors, or if a receiver shall be appointed on account of his insolvency, or if he should persistently or repeatedly refuse to carry out the work diligently, or if he should fail to provide enough properly skilled workmen or proper materials or equipment or plant and machinery or tools or anything else necessary for the progress of the works in accordance with the approved Construction Program, or if he should fail to make prompt payments to Sub-Contractors or to suppliers for materials or equipment or to his workers, or if he should

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Sl. No.	GCC Clause No	Topic	SCC Provision
			persistently disregard laws or ordinances or instructions of the Purchaser, or if he should be guilty of a Violation of breach of any provision of the Contract, or if he has abandoned the Contract, or if he has failed to commence the works, or if he has suspended the Works, then the Purchaser/Purchaser on the basis that sufficient cause exists to justify such action, may without prejudice to any other right or remedy and after giving the Contractor seven days' notice in writing, terminate the employment of the Contractor and take possession of the premises and of all materials, equipment, tools, and plant and machinery thereon and use these as Purchaser's property for the completion of the Works. In such case the Contractor shall not be entitled to receive any further payment until the work is completed. If the amount due to the Contractor for the work carried out by him as per the Contract terms exceeds the expenses, including for additional management and administrative services, for completing the Works and in respect of the damages and / or losses suffered by the PURCHASER due to the Contractor's default, then such excess shall be paid to the Contractor within three months of the Final Completion of the Works. If such expenses for completing of the Works and in respect of the Damages and / or losses suffered exceed such amount due then the contractor shall pay the difference to the PURCHASER within one month of receiving the notification to that effect from the Purchaser. The expenses incurred by Purchaser for completing the Works and in respect of the damages and / or losses suffered by him due to the Contractor's default, shall be certified by the Purchaser and his decision on this matter shall be final and binding on the Contractor.
31	Special Condition	Discrepancy in Prices	If in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price and the quantity), the unit price shall prevail

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<b>Sl. No.</b>	<b>GCC Clause No</b>	<b>Topic</b>	<b>SCC Provision</b>
			<p>and the total price shall be corrected accordingly, unless client feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price shall be corrected accordingly.</p> <p>If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected, and If, as per the judgment of client, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered/speed post, if the tenderer does not agree to the observation of the client, the tender is liable for rejection.</p>
32	Special Condition	Water & Electricity	<p>Arrangement of water and electricity is Contractor's responsibility. However, single supply point of Water and Electricity shall be provided from the available source, but arrangement for drawing the same to the place of work, has to be done by the contractor in proper way. One Energy Meter has to be arranged by the contractor and consumption of electricity shall be paid on commercial rates.</p>

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION VI: LIST OF REQUIREMENTS**

Schedule No.	Brief description of goods and services (Related specifications etc. are in Section-VII)	Accounting unit	Quantity	Amount of Earnest Money
1.	<b>Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.</b>	As per enclosed Price Schedule.	As per enclosed Price Schedule in Section XI.	Rs. 1,12,000.00 (Rupees One Lakh Twelve Thousand only)

Required Delivery Schedule: Work shall be completed within five months from the date of issue of L.O.I. or Work order, whichever is earlier.

Required Terms of Delivery, Destination and preferred mode of Transportation: F.O.R. BRBNMPL, Mysuru. Work shall be executed as per Technical Specification and B.O.Q.

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION VII: TECHNICAL SPECIFICATIONS AS PER SCOPE OF WORK**

**I. PREAMBLE**

Bharatiya Reserve Bank Note Mudran (P) Limited (BRBNMPL) is a wholly owned Subsidiary of Reserve Bank of India is engaged in sovereign function of Designing and Printing of Bank Notes. Now, Company has set an Ink Manufacturing Unit at Mysuru and intend for **“Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.”**

**TECHNICAL SPECIFICATION OF MATERIALS**

1. Materials shall be of the approved quality. A list of materials of approved brand and manufacture is indicated in the annexure. If the list of materials mentioned above stipulates two or more or alternative brands/makes of any product, the decision as to which brand/make shall be used in the work shall be taken by the Architects/Employer and the contractor shall provide the brand/make so selected without any extra cost. Testing of materials even of approved brand shall have to be done by the contractor at their own cost, whether it is indicated in the list of "Mandatory Tests" or not to ensure quality. Materials stamped with ISI Mark shall be used if available.

In case, materials are required to be obtained from any manufacturer other than those listed on account of non-availability then prior approval from Architects will be necessary supported by relevant test certificates qualifying the required standard. Further Tests as directed by the Architects shall also be carried out by the contractor at their own cost, if required.

2. Contractors shall obtain approval of the Architects/Owner of sample of all materials before placing order and the approved sample shall be carefully preserved in an appropriate manner at the site office for verification by the Owner/Architects.
3. For standard bought out items, the sizes manufactured by the firms listed shall prevail when there is discrepancy in the sizes mentioned in the schedule without any financial adjustment.
4. Materials shall be tested at site/any approved Testing Laboratory. The Laboratory Test Certificate in original shall be submitted to the Architects and then entire charges connected with testing including charges for repeated tests if ordered, shall be borne by the Contractor. Test results are also to be recorded at site registers appropriately.
5. It shall be obligatory for the Contractor to furnish certificates, if demanded by the Architects, from manufacturer or the material supplier, stating that the work has been carried out by using their material.

6. All materials supplied by the employer/any other specialist firms shall be properly stored and the Contractor shall be responsible for its safe custody until they are required on the works and till the completion of work.
7. All equipment and facilities for carrying out field tests on materials shall be provided by the Contractors without any extra cost.
8. Unless otherwise shown on the Drawings or mentioned in the "Schedule of Quantities" or anywhere in the contract. The quality of materials, workmanship, dimensions etc. shall be as specified herein under.

9.1 Earth for filling

Shall be selected earth suitable for filling and as approved by Architects and shall be free from building rubbish or organic decomposed material. They shall be obtained either from excavation or brought from outside, as specified in the schedule of items. Black Cotton Soil shall not be used for filling.

9.2 Cement

Cement conforming to IS:269/IS:455 shall be used. The use of cement other than ordinary Portland cement/Blast furnace slag cement may be allowed for small quantity with prior approval of Architect/Owner.

Cement shall be stored in dry weather proof godown/shed built by the contractor at his own cost in order to prevent deterioration by dampness or intrusion of foreign matter. Not more than 10 bags should be kept in one stack and it shall be stored in such a manner as to permit easy access for proper inspection. It shall be stored in such a way as to allow the removal and use of cement in chronological order of receipt. i.e., first received being first used. Cement deteriorated and/or clodded shall not be used on work but shall be removed at once from the site at contractor's cost.

Daily record of cement received and consumed shall be maintained by the Contractor in the cement register at site and submitted to Architects, if called for. Theoretical consumption vis-à-vis materials brought at site by the Contractor shall also be submitted with proper documents with every bill for verification. A chart showing the consumption of cement for different items of work is annexed. Consumption of cement in the corresponding items of work under the contract shall be computed on the basis of the quantities shown in the table subject to a variation of plus/minus three percent. The weight of 1 cum. of cement shall be taken as 1440 Kg. for the items not available in the enclosed cement consumption chart CPWD schedule shall be followed.

9.3 Lime

Lime shall be made from approved Lime Stone or Kankar and properly burnt and shall be as per IS:712-1984. It shall be free from excess of unburnt kankar or lime stone ashes or other extraneous materials and shall be stored to prevent damage by rain, moisture or air slaking and damages lime shall not be used but shall be removed from the site of work forthwith at contractors cost. Lime shall be slaked with fresh water and screened through

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appropriate screens and stored and used within 14 days provided it is protected from dyeing out.

#### 9.4 Fine aggregate

Sand shall be from natural source, chemically inert, clean, sharp, hard, durable and well graded and free from deleterious materials not exceeding the permissible limit as per IS:383-1970. The Silt Content shall be within 8%. If it is in excess, washing shall be done in an approved manner to bring it within allowable limit.

The Fine aggregate for concrete shall be graded and the Finest Modulus shall be between 2.60 to 3.20. The finest modulus of fine aggregate shall be between 1.80 to 2.60 for plaster and masonry work.

The fine aggregate shall be stacked carefully on a clean hard dry surface so that it will not get mixed up with deleterious foreign materials. If such a surface is not available brick floor or a thin layer of lean concrete shall be prepared.

The percentage of deleterious materials shall be within the permissible limits as specified in IS:383-1970.

#### 9.5 Coarse Aggregate

Shall consist of crushed or broken stone 95% of which shall be retained on 4.75mm IS test Sieve. It shall be obtained from crushing Granite, Quartzite, Trap, Basalt or similar approved stones. Coarse aggregate can be chemically inert when mixed with cement and shall be roughly cubical in shape and free from soft friable, thin, laminated or flaky peaces. The maximum percentage of materials shall not exceed those specified in IS:383-1970. The Coarse aggregate used in the work shall conform to the grading as per limit specified in IS:383-1970.

#### 9.6 Steel Reinforcement

Mild steel bars:

Mild steel reinforcement bars shall conform to IS:226-1962 "Standard Quality" or IS:432-1966-Grade-I. Other qualities of steel shall not be acceptable.

#### 9.7 High Strength Deformed Bars

Where deformed high strength bars are specified, the contractor shall obtain the material from one of the following:

- a. "Tistrong"-II as manufactured by M/s. Tata Iron and Steel Company conforming to IS:1139-1966 obtained from TISCO;
- b. "Tor steel" as manufactured by M/s. Hindustan Steels or any ISI approved manufacturers conforming to IS:1786-1966;



c. Approved re-rollers of Tata /Sail;

d. Local dealers, if required for minor quantities.

Testing of bars will be necessary as indicated in "Mandatory Test".

#### 9.8 Bricks

The bricks shall be locally available Kiln Burnt bricks of generally regular and uniform size, shape and colour, uniformly well burnt through out but not over burnt. They shall be free from cracks or other flaws.

They shall show a fine grained, uniform, homogenous and dense texture on fracture and be free from lumps of lime, laminations, cracks, air hole, soluble salts causing efflorescence or other defects which may in any way impair their strength, durability, appearance, usefulness for the purpose intended. They shall not break even after being dropped on the ground on their flat face in a saturated condition from a height of 60.00 cms. (About Two feet).

The size of brick shall be nominally 250mm x 125mm x 75mm or 230mm x 115mm x 65mm only.

Tolerance on dimensions up to (+ or -) shall be permitted. The dimension of bricks shall be tested as per method prescribed in CPWD Specification.

After immersion in water, absorption by weight shall not exceed 20% of the dry weight of the brick when tested according to ISS No. 1077-1970. The bricks shall have a minimum average compressive strength of 50 Kg/cm<sup>2</sup> as specified in nomenclature of the item. The compressive strength of any individual brick on testing shall not fall below the average compressive strength by more than 20% (Twenty percent). The rating of efflorescence of bricks shall not be more than 'Moderate'.

The bricks to be used for the work shall be approved by the Owner/Architects beforehand.

#### 9.9 Water

Water for mixing Cement/Lime/Surkhi mortar of concrete shall not be salty or blackish and shall be clean, reasonably clear and free from injurious quantities of deleterious materials. It shall not contain any sugar or excess of oil, acid and injurious alkali, salts, organic matter which will either weaken the mortar or concrete or cause efflorescence or attack the steel in reinforced cement concrete. Water shall be obtained from sources approved by the Architect. Potable water is generally considered satisfactory for mixing and curing concrete, mortar, masonry etc. Water shall be tested once before undertaking the construction work in an approved testing laboratory to establish its suitability. All charges connected therewith shall be borne by the Contractor. The percentage of solids in the water shall not exceed the limit specified in IS:456-1978. The Ph value of water shall generally be noted less than 6.

9.10 Steel Windows and Doors

Steel windows and doors shall be fabricated out of steel sections. They shall be obtained from IS approved manufacturers.

9.11 Glazed Tiles

White or coloured glazed tile shall be obtained from an approved manufacturer and shall be flat and true to shape they shall be free from cracks, crazing, spots, chipped edges and corners. The glazing and colour shall be of uniform shade and unless otherwise specified the tile shall be as per manufacturer's specification. Tolerance in dimension may be  $\pm 1.0\text{mm}$  in sizes and  $\pm .5\text{mm}$  in thickness. Testing as indicated in list of "Mandatory Test" shall be performed and all charges thereof shall be borne by the Contractor.

9.12 Glazing

Glass used for glazing shall be sheet glass unless other wise specified clear or obscured as directed by the Architects/Owner of approved quality, free from flaws, specks, bubbles and shall be 2.9mm thick up to 0.60 x 0.60 M size and for larger size it shall be 4mm thick unless otherwise specified in the Schedule of Quantities.

9.13 C.I. Rain Water Pipes

All. C.I. pipes and fittings shall be of approved manufacturer free from cracks, chipped edges or corners and other damages. The pipe shall be IS Stamped.

9.14 Paints

Dry distemper, oil bound distemper, cement primer, oil paint, enamel paint, flat oil paint, plastic emulsion paint, anti-corrosive primer, red lead, yellow zinc chromate, water proof cement paint shall be from an approved manufacturer without any admixture shall be used, except for addition of thinner, if recommend by the manufacturer.

9.15 Cement Admixtures

Cement admixtures are to be obtained from approved manufacturer with the explicit approval of the Architects. The use of admixture containing Calcium Chloride, Fluorides, Nitrates and sulphates is prohibited. The Architects decision as regards use of admixture is final and binding.

9.16 Hardware Fittings

The Hardware Fittings, Iron or Aluminium shall be obtained from approved manufacturer and IS stamped, if available. The M.S./Iron fittings are to be oxidised and Aluminium fittings anodised in natural colour mat satin finish, even if not otherwise specified.

9.17 Polysulphide Sealant

Polysulphide sealant should be obtained from approved manufacturers.

9.18 Mortars

9.19 Cement Mortar

Cement mortar shall be of proportions specified for each type of work in the schedule. It shall be composed of Portland cement and sand. The ingredients shall be well and evenly mixed together in a mechanical pan mixture, care being taken not to add more water than is required. No mortar that has begun to set shall be used.

Hand mixing shall not be permitted except for unimportant structural members and purely at the discretion of the Bank/Architects.

If hand mixing is done, then it shall be done on pucca water-proof platform. The gauged materials shall be put on the platform and mixed dry. Water will then be added and the whole mixed again until it is homogenous and of uniform colour. The contractor shall use 10% extra cement for hand mixing for which no extra payment will be made.

10.0 Wherever references to codes are mentioned, they shall mean its latest revisions.

PREFERRED LIST OF MATERIALS OF APPROVED BRAND AND/OR MANUFACTURE

CEMENT	:	OP Cement or Slag Cement of A.C.C., L&T, Malabar, Zuvari, Penta.
STEEL	:	Tata, SAIL, TISCO, METCOM, or any ISI approved manufacturer/Re-roller.
WHITE GLAZED TILES	:	1st quality tiles of H&R Johnson/KAJARIA, 1st quality tiles of 'Somani'.
STEEL DOORS, WINDOWS & VENTILATORS	:	(i) Bahar Bobbin & Engg. Works (ii) 'Steelex' Industrial Corporation (iii) ISI approved manufacturer.
WATER PROOFING COMPOUNDS	:	'CICO' , 'Accoproof'/equivalent.
PAINTS & DISTEMPERS	:	I.C.I., British Paints, Asian Paints, Janson Nicholson.
REDOXIDE (FOR IPS FLOORING)	:	'Shalimar', 'Blundel', 'Eomite'
RED OXIDE ZN-CHROMATE WATER PROOF CEMENT	:	'Shalimar', 'Asian Paints'
PAINTS	:	'Super Snowcem', 'Durocem'

GLASING SHEET GLASS : St: gobain, Modiguard.

**HARDWARE FITTINGS**

1. Ferrous manufacturer. : 'Mowjee' or equivalent ISI approved
2. Non-ferrous : 'METACO', 'ARGENT' or equivalent  
ISI approved manufacturer.
3. Door Closer : 'Ranjan', 'Everite' or equivalent ISI.

BRICK KOPA WATER  
PROOFING TREATMENT : India Water Proofing Company, Bombay,  
Overseas Waterproofing Corporation.

ROLLING SHUTTERS : DIANA/DHARIWAL/FRENCH ENGG.

SAND, FINE AGGREGATES,  
COARSE AGGREGATES,  
BRICKS, STONE SLAB,  
LIME, NEERU : To be got approved before use.

**Notes: All other materials not specified shall be got approved by the BRBNMPL prior to supply/installation. The brand name of the item proposed to be supplied/installed shall be mentioned by the tenderer.**

**EARTH WORK**

**GENERAL**

The excavation will generally refer to open excavation of foundation area wet or dry in all sorts of soils at any depth, unless otherwise specified except hard rocks for which separate provisions are made.

**EXAMINE THE SITE**

The contractor shall visit and ascertain the nature of the ground to be excavated and the work to be done and shall accept all responsibility for the cost of the work involved.

**SETTING OUT**

The contractor shall clear the entire site by cutting/uprooting jungles, bushes, grass, vegetation growth and tress and generally level the site and set out the centre line of the building or other involved works and get the same approved from Owner/Architects. It shall be the responsibility of the contractor to install substantial reference marks, bench marks etc. and maintain them as long as required by the Owner/Architects. The contractor shall assume full responsibility for proper setting out, alignment, elevation and dimension of each and all parts of the works.

**GROUND LEVEL AND SITE LEVEL**

Before starting the excavation the existing ground level of the entire plot shall be taken by the contractor in consultation with the Owner/Architects and a proper record of these levels kept, which shall be jointly signed by the contractor and the Owner/Architects.

**EXCAVATION AND PREPARATION OF FOUNDATION FOR CONCRETE OTHER THAN HARD ROCK/**

Excavation shall include removal of all materials of whatever nature including moorum, soft rock, boulders, old foundations, concrete, asphalt or paved surfaces etc. at all depths and whether wet or dry necessary for the construction of foundation and sub structure including mass excavation for underground reservoir, cess pits, septic tanks etc. where applicable, exactly in accordance with lines, levels, grades and curves shown in the drawings or as directed by the Owner/Architects. The bottom of excavation shall be levelled both longitudinally and transversely or as directed by the Owner/Architects. Should the contractors excavate to a greater depth or width than shown on the drawings or as directed by the Owner/Architects, he shall at his own expense fill the extra depth of width in cement concrete in proportion as directed by the Owner/Architects but in no case with concrete of mix leaner than 1:5:10 cement concrete.

The contractor shall report to the Owner/Architects when the excavations are ready to receive concrete. No concrete shall be placed in foundation until the Contractor has obtained Owner/Architect's approval. In case, the excavation is done through different strata of soil and if the same is payable as per provision in the Schedule of Quantities the Contractor shall get the dimensions of the strata decided by the Owner/Architects for payment. If no specific provisions are made in the schedule of quantities it will be presumed that excavation shall be in all types of strata except hard rock and the contract's rate shall cover for the same, which are treated as a single entity.

After the excavation is passed by the Owner/Architects and before laying the concrete, the contractor shall get the depth and dimensions of excavation, levels, nature of strata (as applicable as per schedule of quantities, and measurement recorded from the Owner/Architects.

#### SHORING.

The sides of the excavation, if required, should be protected by shoring in such a way as is necessary to secure them from failing in, and the shoring shall be maintained in position as long as necessary. The contractor shall be maintained in position as long as necessary. The contractor shall be responsible for the proper design of the shoring to hold the sides of the excavation in position and ensure safety of persons and properties etc. The shoring shall be removed as directed after the items for which it is required are completed. No extra payment will be made for shoring.

#### PROTECTION

If instructed by the Owner/Architects all foundation pits, and similar excavations shall be strongly fenced and marked with red lights at night to avoid accidents. Adequate protective measures shall be taken to see that the excavation does not affect or damage adjoining structures. All measures required for the safety of the excavations, the people working in and near the foundation trenches, and people in the vicinity shall be taken by the contractor at his own cost. The Contractor will be entirely responsible for any injury or damage to property caused by his negligence or accident due to his constructional operations.

#### STACKING OF EXCAVATED MATERIALS

All materials excavated will remain the property of the Owner. The excavated materials, at the first instance, shall be sorted as directed by the Architect/Owner and stacked appropriately by the sides of trenches as directed by the Architects before they are disposed off and levelled within the site at locations directed by the Architect/Owner. Materials suitable and useful for back filling, plinth filling or levelling of the plot or other use shall be stacked in convenient places in such a way so as not to obstruct free movement of man, animals and vehicles or encroach on the area required for constructional purposes. The cost on account of sorting out useful materials/disposal within the site will not be additionally paid for.

#### BACK FILLING/PLINTH FILLING

All shoring and form work shall be removed after their necessity ceases and trash of any sorts shall be cleaned out from the excavation. All space between foundation masonry or concrete and the sides of excavation shall be refilled to the original surface with approved excavated materials in layers 15cm in thickness watered and rammed with iron and wooden rammers weighing 7.8 Kg. with a base of 20cm. square or 20cm diameter. The filling shall be done after concrete or masonry is fully set and done in such a way as not to cause undue thrust on any part of the structure. Where suitable excavated materials are to be used for refilling, it shall be brought from the space where it is temporarily stacked and used in refilling.

No excavation of foundations shall be filled in or covered up until all measurements of excavations, masonry concrete and other works below ground level are jointly recorded. Black cotton soil shall not be used for back filling or in plinth filling.

**DEWATERING.**

Rate for excavation shall include bailing or pumping out water which may accumulate in the excavation during the progress of work either from seepage, springs, rain or any other cause and diverting surface flow if any bunds or other means. Pumping out water shall be done in such approved manner as to preclude the possibility of any damage to the foundation trench, concrete or masonry or any adjacent structure. When water is met in the foundation trenches or in tank excavations, pumping out water shall be from auxiliary pit of adequate size dug slightly outside the excavation. The depth of auxiliary pit shall be more than the working foundation trench levels. The auxiliary pit shall be refilled with approved excavated materials after the dewatering is over.

The excavation shall be kept free from water:

- a) During inspection and measurement.
- b) When concrete and/ or masonry wall are in progress and till they come above the natural water level and
- c) Till the Owner/Architects consider that the concrete mortar is sufficiently set.

**SURPLUS EXCAVATION MATERIALS**

All excavated materials certified as surplus and not useful, unless otherwise specified, shall be removed by the Contractor from the site in an approved manner at locations to be arranged by him in conformity with local regulations for which no additional payment will be made unless separately included in the bill of quantities. The item of removal of surplus excavated materials shall only be undertaken by the contractor only when specific instruction in this regard has been obtained from The Owner/Architect.



All concrete work shall be carried out by the contractor under the supervision of a concrete foreman sufficiently experienced in this type of work.

**Ingredients to be used in concrete and Reinforced concrete work.**

Ingredients to be used in concrete should conform to the specifications as indicated under "Technical Specifications for Materials" given earlier.

As regards admixture, this may be used with prior approval of Architects/Consultant.

**Mix Proportion**

The mix proportions shall be selected to ensure that the workability of the fresh concrete is suitable for the conditions of handling and placing, so that after compaction it surrounds all reinforcements and completely fills the form work.

The determination of the proportions of cement aggregates and water to attain the required strength shall be made as follows:

- a) By designing the concrete mix; such concrete shall be called "Design mix Concrete" or
- b) By adopting nominal concrete mix; such concrete shall be called "Nominal Mix Concrete". Design mix concrete shall be preferred to nominal mix. If design mix concrete cannot be used for any reason on the work for grades of M20 or lower, nominal mixes may be used with the permission of the Architect/Consultant by using higher cement content at no additional cost to the owner.

**Design Mix Concrete**

The mix shall be designed to produce the grade of concrete having the required workability and characteristic strength not less than approximate values given in Table 'A'. The procedure given in Indian standard SP-23 should be preferred for the design but other standard methods may also be followed. As long as quality of materials does not change a mix design done earlier may be considered adequate for later work. Grades of concrete lower than M15 shall not be used for reinforced concrete work. M5 and M7.5 grades of concrete may be used for lean concrete bases and simple foundation for masonry walls. These mixes may not be designed and may be obtained from nominal mix concrete.

**Ready Mix Concrete of Equivalent strength may be used with the approval of the Architect/ BRBNMPL Engineers.**

**TABLE A - GRADES OF CONCRETE**

Grade of Concrete	Specified characteristic compressive Strength	
	at 7 days	at 28 days

	N/mm <sup>2</sup>	N/mm <sup>2</sup>
M10	7	10
M15	10	15
M20	13.5	20
M25	17.00	25
M30	20.00	30
M35	23.5	35
M40	27	40

### Nominal Mix Concrete

Nominal mix concrete may be used for concrete of grades M5, M7.5, M10, M15 and M20. The proportion of materials for nominal mix concrete shall be in accordance with Table 'B'.

The proportions of fine to coarse aggregates should be adjusted from upper limit to lower limit progressively as the grading of the Fine Aggregates becomes finer and the maximum size of coarse aggregate becomes larger. Graded coarse aggregates shall be used.

The cement in the mix specified in Table 'B' for any nominal mix be proportionately increased if the quantity of water in a mix has to be increased to overcome the difficulties of placement and compaction, so that the water cement ratio as specified is not changed.

In the case of vibrated concrete, the limit specified may be suitably reduced to avoid segregation.

The quantity of water used in reinforced concrete work should be sufficient, but not more than sufficient to produce a dense concrete of adequate workability for its purpose, which will surround and properly grip all the reinforcement. Workability of concrete should be controlled by maintaining a water content that is found to give a concrete which is just sufficiently wet to be placed and compacted without difficulty with the means.

**TABLE 'B' – PROPORTIONS FOR NOMINAL MIX CONCRETE**

Grade of Concrete	Total quantity of dry aggregates by Mass per 50 Kg. of Cement to be taken as the sum of the individual masses of Fine and coarse Aggregate (Maximum) Kg.	Proportion of Fine Aggregate to Coarse Aggregate (By Mass)	Quantity of Water per 50 Kg. Of cement (Maximum) Litres.
1	2	3	4
M5	800	Generally 1:2 but subjected to an upper limit of 1:1½ and a lower limit of 1:2½	60
M7.5	625		45
M10	480	34	32
M15	350		

M20	250		30
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### PRODUCTION AND CONTROL OF CONCRETE

In proportionating Concrete, the quantity of both Cement and Aggregate should be determined either by weight or volume as the case may be. Where weight of cement is determined on the basis of mass of cement per bag, a reasonable number of bags should be weighed periodically to check the nett mass. Where the cement is weighed on the Site and not in bags it should be weighed separately from the aggregates. Water should be either measured by volume in calibrated tanks or weighed, any solid admixture that may be added may be measured by mass; liquid and paste admixture may be measured by volume or by mass. Batching plant where used should conform to IS 4925. All the measuring equipments should be maintained in a clean serviceable condition and their accuracy periodically checked.

Except where it can be shown to the satisfaction of the Architect/Consultant that supply of properly graded aggregate of uniform quality can be maintained over the period of work, the grading of aggregate should be controlled by obtaining the coarse aggregate in different sizes and blending them in right proportions when required, the different sizes being stacked in separate Stock piles. The grading of coarse and fine aggregate should be checked as frequently as possible to ensure that the specified grading is being maintained. Where weigh batching is not practicable, the quantities of coarse and fine aggregates may be determined by volume and based with the permission of the Architect/Consultants. No change in proportions or substitutions in materials shall be made without additional tests to show the quality and strength of concrete is satisfactory.

Mixing-Concrete shall be mixed in a standard mechanical mixer. The mixing shall be continued until there is a uniform distribution of the materials and the mass is uniform in colour and consistency. If there is segregation after unloading from the mixer the concrete should be remixed. The mixing time may be 1 ½ to 2 minutes generally. In exceptional circumstances such as mechanical breakdown of mixer, work in remote areas or when the quantity of concrete work is very small, hand mixing may be permitted subject to adding 10% extra cement for which no extra payment will be made to the contractor. When hand mixing is permitted, it shall be carried out on a water-tight platform and care shall be taken to ensure that mixing is continued until the concrete is uniform in colour and consistency.

Workability of concrete should be controlled by direct measurement of water content, and it should be checked at frequent intervals. For nominal mix workability measured by slump test may have the values given in Table "C".

**TABLE C**

Sl.	Type of Work	When Vibrated	when not Vibrated
1.	Mass concrete in R.C.C. Foundation footings retain-	2.5 cms (1")	5 cms (2")

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore  
ing walls and road slabs.

2.	Beams, slabs, columns, with simple reinforcement	2.5 cms to 5 cms (1" to 2")	5 cms to 10 cms (2" to 4")
3.	Thin sections with congested reinforcement	5 cms to 10 cms (2" to 4")	10 cms to 15 cms (4" to 6")

Note: Should conditions governing slump and workability change pointing to advisability of an increased slump, this shall only be done by decreasing the amount of aggregate and not by increasing the amount of water.

Transporting- Concrete shall be transported from the mixer to the form work as rapidly as possible by methods which will prevent the segregation or loss of any of the ingredients and maintaining the required workability. In no case, more than 30 minutes shall elapse between mixing and consolidation in its position. During hot and cold weather, concrete shall be transported in deep containers. Other suitable methods to reduce the loss of water by evaporation in hot weather and heat loss in cold weather may also be adopted.

Placing- The concrete shall be deposited as nearly as practicable in its final position to avoid rehandling. The concrete shall be placed and compacted before setting commences and should not be subsequently disturbed. Methods of placing should such as to preclude segregation. Care should be taken to avoid displacement of reinforcement or movement of form of work. Concrete shall not be dropped into position from a height greater than 2.0m.

Compaction- Concrete should be thoroughly compacted and fully worked around the reinforcement, embedded fixtures and into corners of the form work. Mechanical vibrators should generally be used. Over-vibration or vibration of very wet mixes is harmful and should be avoided. Under vibration is also harmful.

Whenever vibration is to be applied externally the design of form work and the disposition of vibrators should receive special consideration to ensure efficient compaction and to avoid surface blemishes.

Beams and columns shall be vibrated using immersion vibrators. Thin sections like walls of water tanks, chajjah, aprons etc. should be vibrated preferably using surface vibrators. It is better to vibrate in similar intervals for short period of time, rather than at wider intervals for longer periods of time. The vibrator shall be used only to aid compaction and not to push concrete laterally in the forms.

Construction Joints- Concreting shall be carried out continuously up to construction joints the position and arrangement of which shall be indicated by the designer.

When work is to be resumed on a surface which has hardened, such surface shall be roughened. It shall then be swept clean and thoroughly wetted. For vertical joints neat cement slurry shall be supplied on the surface before it is dry. For horizontal joints the surface shall be covered with a layer of mortar about 10 to 15mm thick composed of cement and sand in the same ratio as the cement and sand in concrete mix. This layer of cement slurry or mortar shall be freshly mixed and applied immediately before placing of concrete.

Where concrete has not fully hardened, all laitance shall be removed by scrubbing the wet surface with wire or bristle brushes. care being taken to avoid dislodgement of particles of aggregate. The surface shall be thoroughly wetted and all free water removed. The surface shall then be coated with neat cement slurry. On this surface, a layer of concrete not exceeding 150mm in thickness shall first be placed and shall be well rammed against old work, particular attention being paid to corner and close spots. Work thereafter shall proceed in the normal way.

#### ***Curing***

Unless otherwise specified, all exposed surfaces of concrete shall be kept continuously in a damp or wet condition by pounding or by covering with a layer of sacking canvass Hessian or similar materials and kept constantly wet for at least 7 days from the date of placing of concrete. Mere sprinkling of water on vertical surfaces shall not be allowed. The rate for R.C.C./ plain concrete work shall include cost of curing.

Approved curing compounds may be used at no additional cost to the owner in lieu of moist curing with the permission of the Architect/Consultant. Such compounds shall be applied to all exposed surfaces of the concrete as soon as possible after the concrete has set.

#### ***Facilities for preparation and Testing of concrete at site:***

In order to exercise the required degree of constant control over the concrete material and its preparation the contractor is expected to set up and maintain at his own expense a Testing Laboratory at Site equipped with at least the following equipments:

- i) Compression Testing Machine of capacity 80t/100t;
- ii) A set of standard sieves;
- iii) Measuring cylinders, adequate number of cubes and cylinder moulds and slump cones;
- iv) Weighing balance;
- v) Vicat Apparatus;
- vi) Curing tanks for cubes;

#### ***SAMPLING, TESTING AND ACCEPTANCE OF CONCRETE***

Samples from fresh concrete shall be taken and cubes shall be made, cured and tested at 28 days in accordance with IS 516.

Tests shall be conducted for compressive strength on 15 cmsx 15cmsx 15cms Cubes of Concrete. Companion Specimens shall be cast from a single batch of concrete and shall be of the same age at the time of testing. In order to get a relatively quicker idea of the quality of concrete, additional tests of compressive strength tests at 7 days shall be carried out in addition to 28 days

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Compressive Strength Tests. In all cases 28 days Compressive Strengths specified in Table ' A' shall along be the criterion for acceptance or rejection of the concrete

***Frequency of Sampling:***

The frequency of sampling is indicated in the list of mandatory tests.

Works test cubes shall represent quality of concrete incorporated in the work and taken out in sets of 6 cubes. The concrete for preparation of 1 set of 6 cubes shall be taken from one batch of mixed concrete discharged from mixer. The cubes shall be moulded in accordance with IS Code of Practise. Out of 6 cubes, 3 cubes shall be tested at an age of 7 days. In case of testing in an approved laboratory the contractor shall arrange to transport the cubes from the site to the laboratory and forward the test results to the Owner/Architects. The contractors shall bear all expenses in connection with the preparation test cubes, cost of concrete labour and transportation charges to the approved laboratory etc. including laboratory testing charges and his rate for concrete items shall be coated accordingly.

The Specimens shall be tested as per IS 516. The Samples may be tested at site laboratory generally but should be tested in any other Government Test House or approved laboratory whenever asked for by the Architect/Consultant for which no additional payment shall be made.

The concrete shall be deemed to comply with the strength requirements if, the individual variation is not more than  $\pm 15\%$  of the average strength of three specimens.

For mix design however, acceptance criterion will be decided based on "Standard Deviations" as per IS 456.

Concrete which does not meet the strength requirement shall be dealt with as under at the discretion of Consultant/Owner:

- i) The Structural adequacy of the parts affected shall be investigated and consequential action has needed shall be taken. Costs of any special tests to be advised by the Architect is to borne by the Contractor;
- ii) If it is advised by the Consultant to retain the concrete having strength less than that specified payment shall be made at a reduced rate pro-rata to the strength obtained;
- iii) If the deficiency in the opinion of the Architect/Consultant is such as to necessitate removal of the concrete from the structure, then on being so directed by the Architect/Consultant the Contractor at his own expense shall remove the portion of the concrete certified as deficient, and replaced by concrete of specified strength at no additional cost.

Where the strength of a concrete mix, as indicated by test, lies in between the strengths of any two grades specified in table 'A', such concrete shall be classified as a grade belonging to the lowest of 2 grades between which its strengths lie. In case the cube test strength shows higher





so as to prevent warping when wetted. A camber in all direction of 6mm for every 5 m. span in all slab and beam centring shall be provided to allow for unavoidable sagging due to compression or other causes. All props either timber or steel, shall be straight and of full height and no joints shall be allowed. Where timber props like bullies are used, they shall have a minimum diameter of 100 mm and shall be straight and adequately strong. Props shall be braced with wooden battens and where additional staging is necessary extra care shall be taken to use bigger diameter props with bracing at 4 or 5 levels at no extra cost. All prop shall be supported on sole plates and double wedges. At the time of removing props, wedges shall be gently eased off and not knocked out.

All rubbish, chippings, shavings and saw dust shall be removed from the interior of the forms and shall be cleaned and thoroughly wetted or treated, if considered necessary, with non-sticking mineral oil or any other approved material before concrete is poured at contractor own cost. care shall be taken that oil or such approved material is kept out of contract with the requirement

Form work shall be removed when the concrete has reached a strength of at least twice the stress to which the concrete may be subjected at the time of removal of form work. This shall be stripped without shock or vibration and shall be eased off carefully in order to allow the structure to take up its load gradually. Forms shall not be disturbed until concrete has adequately hardened to take up the superimposed load.

In normal circumstances (generally where temperatures are above 20°C and where ordinary Portland cement is used) forms shall be struck after expiry of the following periods unless otherwise directed at site by the Architects/Employer.

<u>Location</u>	<u>Striking time in days</u>
a) Vertical sides of walls, slabs, beams and columns.	2
b) Bottoms of slabs upto 4.5m span	7
c) top of slabs above 4.5m span and bottom of beams upto 6m span	14
d) Bottom of beams over 6 m span	21

### **REINFORCEMENT CLEANING, BENDING, PLACING ETC.**

#### **Cleaning of Reinforcement:**

Before steel reinforcement is placed in position, the surface of the reinforcement shall be cleaned of rust, dust, grease and any other objectionable substances.

#### **Bar Bending Schedule of Reinforcement**

On receipt of structural drawing, contractor shall prepare bar bending schedule of reinforcement and shall get approved by the Employer/Architect.

### **Cutting in Reinforcement**

Before steel reinforcement bars are cut, the contractor shall study the length of bars required as per drawing and shall carry out cutting only to suit the sizes required as per drawings.

### **Placing and Security**

Reinforcement bars shall be accurately placed and secured in position and firmly supported or wedged by precast concrete blocks of suitable thickness, at sufficiently close intervals so that they will not sag between the supports or get displaced during the placing of concrete or any other operation of the works. It is most important to maintain reinforcement in its correct position without displacement and to maintain reinforcement in its correct position without displacement and to maintain the correct specified cover. The contractor shall be responsible for all costs for rectification required in case the bars are displaced out of their correct positions.

### **Binding Wire**

The reinforcements shall be securely tied whenever they cross each other or whenever required for with 20 gauge black soft annealed steel wire. The cost of materials and labour required for binding the reinforcement shall be included in the contractor's quoted rate for reinforcement.

### **Welding**

Welding in lieu of splices may be carried out only after authorisation in writing by the Employer/Architect. Welding shall be carried out as per relevant IS Code of practice. However, no extra payment shall be allowed for the same.

### **Bend etc.**

Bends, cranks, etc. in steel reinforcement shall be carefully formed, care being taken to keep bends out of winding. Otherwise all rods shall be truly straight. For any bend minimum radius of eight times diameter of the bar shall be used unless otherwise specified in the drawings. However, in respect of standard hooks the radius of bend shall be two times the diameter of bar. Heating of reinforcement bars of facilities bending will not be permitted. The bars shall always be bent cold. In case of mild steel reinforcement bars of larger sizes where cold bending is not possible they may be bent by heating with written permission of the Employer/Architect. Bar when bent shall not be heated beyond cherry red colour and after bending, shall be allowed to cool slowly without quenching. The bars damaged or weakened in any way in bending shall not be used on the work. High strength deformed bars shall in no case be heated to facilitate bending.

### **Inspection of Reinforcement**

No concreting shall be commenced until the Employer/Architects have inspected the reinforcement in position and until their approval have been obtained. A notice of at least 72 hours shall be given to the Employer/Architect by the contractor for inspection of reinforcement. If in the opinion of the Employer/Architect any materials is not in accordance with the specification or the reinforcement is incorrectly spaced, bent or otherwise defective, the contractor shall immediately remove such materials from the site and replace with new and

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rectify any other defects in accordance with the instruction of the Employer/Architect to their entire satisfaction at his own cost.

**Stock Piling of Steel**

Reinforcement Steel required shall be stock piled well in advance of the need in the work.

**Cover for Reinforcement:**

Cover shall be measured from the outer surface of main reinforcement. Cover shall be as follows:

- a: At each end of a reinforcing bar, 25mm or twice the diameter of such rod or bar, whichever is greater.
- b: For longitudinal reinforcing bar in beam 25mm or the diameter of such rod or bar, whichever is greater.
- c: For tensile, compressive, shear or in other reinforcement in slab 15mm or the diameter of such reinforcement whichever is greater.
- d: For reinforcement in any other member such as a lintel, chajja, canopy or pardi, 15mm or the diameters of such reinforcements, whichever is greater.
- e: For main reinforcement in isolated footing (side & bottom) clear cover shall be 50mm
- f: For column bars clear cover shall be 40mm, unless otherwise specified in drawing.
- g. For bars in slabs of strip footings and mat foundations clear cover shall be 50mm. Slab bars shall be placed over beam bars in the case of beam and slab type foundation.
- h. For any other types covers as specified in I.S. 456 shall be provided.

**BRICK MASONRY**

**BRICK WORK**

**General**

All brick work shall be carried out as shown on the drawings with set backs, projections, curvatures, cuttings, footings etc. No additional cost for use of cut bricks shall be allowed. Wherever the proportion of cement mortar has not been specifically mentioned, cement mortar in the proportion of 1:6 shall be used. Flat brick arches shall be provided wherever required without any extra cost. Brick work shall be kept wet while in progress, till mortar has properly set. Minimum curing period for masonry work shall be 10 (ten) days. On holidays or when work is stopped, top of all unfinished masonry shall be kept wet. Should the mortar become dry, white or powdery, for want of curing, work shall be pulled down and rebuilt at the contractor's expense. All external brick work shall be done from outside by erecting rigid external scaffolds only.

**Brick Masonry**

**Soaking**

All bricks shall be immersed in water for twenty four hours before being put into work so that they will be saturated and will not absorb water from the mortar.

**Bats**

No bats or cut bricks shall be used in the work unless absolutely necessary around irregular openings or for adjusting the dimensions of different course and for closures, in which case, full bricks shall be laid at corners, the bats being placed on the middle of the courses.

**Laying**

Unless, otherwise specified, the brick work shall be laid in English bond. The brick shall be laid in cement mortar to line, level and thoroughly bedded in mortar and all joints shall be properly flushed and packed with mortar and no hollows left anywhere. Brick shall be handled carefully so as not to damage their edges. They should not also be thrown from any height to the ground but should be pit down gently. All courses shall be laid truly horizontal and all vertical joints made truly vertical. Vertical joints on the course and the next below should not come over one another and shall not normally be nearer than quarter of a brick length. Fixtures, lugs, frames etc. if any shall be built in at place shown in the plans while laying the courses only and not later by removal of bricks already laid unless otherwise instructed by the Architect.

Care shall be taken during construction to see that edges of bricks at quoins, sills, head etc. are not damaged.

The vertically of the walls and horizontally of the courses shall be checked very often with plumb bob and spirit level respectively.

### **Joints**

Joints shall preferably not exceed 10mm (about 3/8") in thickness. The Joints shall be raked out not less than 10mm (about 3/8") deep when the mortar is green where pointing is to be done. When the brick surface are to be plastered, the joints shall be raked to a depth of 5mm when the mortar is green so as to provide good key to plaster.

### **Uniform raising**

Brick work shall be carried up regularly in all cases where the nature of work will admit, not leaving any part 60cm. lower than another. But where building at different levels is necessary, the bricks shall be stopped so as to give later a uniform level and effective bond. Horizontal courses should be to line and level, and face plumb as shown on the plan. The rate of laying masonry may be upto a height of 80cm (about 32") per day if cement mortar is used, and 45cm (about 18") if lime mortar is used.

### **Scaffolding**

The scaffolding must be strong and rigid stiffened with necessary cross bearers and always decked and bared on the sills with close boarding/ceilings to prevent swings and injury to persons or damage to materials. The contractor shall have to allow other tradesman engaged by the Employer to make use of the scaffolding at no additional cost. Rates for brick work is to include all necessary costs for erection, maintenance and removal on completion of suitable scaffolding needed for the work. If for the interest of the work the contractor has to erect scaffolding in the other properties including local bodies/corporation, the arrangement for the same including licensing fees etc. shall be borne by the contractor and the employer is kept free from any liability on this account.

### **HALF BRICK WORK AND 75/65 MM THICK BRICK WORK**

The mortar mix for half brick and 75/65mm brick work shall be as specified in the schedule of quantities. Half brick thick and brick on edges walls, shall be provided 20 BWG, wire netting reinforcements. For half brick thick wall and brick on edge wall wire netting shall be provided at every third course and at alternate course respectively with the netting 40mm mesh made of 20 SWG black soft iron wire.

### **BRICK FLAT SOLING**

For soling the bricks shall be picked jhama of approved brand, sound, hard, durable, dense, clean, and free from soft spots, cracks, decay and other defects. Brick Bat shall not be used. All the fillings shall be watered and compacted to get maximum consolidation. All necessary trimming or filling for laying of the soling in line and required grade shall be done. The sub-grade shall be marked by stacks and strings for required depth for laying of soling. The cushioning as well as filling of joints shall be done with local sand.

The bricks shall be laid on flat (unless otherwise specified) touching each other. Brick shall be laid in parallel rows breaking bond or in herring bond pattern as directed by the Architects and firmly embedded true to line and filled with local sand.

## **PLASTERING**

### **Scaffolding**

Scaffolding for carrying out plastering work shall preferably be double scaffolding having two sets of vertical supports so that the scaffolding is independent of the walls.

**Preparation of surface**

All putlog holes in brick work and junction between concrete and brick work shall be properly filled in advance. Joints in brick work shall be raked about 5mm. deep and concrete surface

hacked to provide the grip to the plaster. Projecting burns of mortar formed due to gaps at joints in shuttering shall be removed.

The surface shall be scrubbed clean with wire brush/coir brush to remove dirt, dust etc. and the surface thoroughly washed with clean water to remove efflorescence, grease and oil etc. and shall be kept thoroughly wet prior to application of plaster.

**Ordinary cement plaster**

The preparation of surface shall be as stated above. The thickness and proportion of plaster shall be as specified in the schedule of items.

Mortar shall be applied evenly with force on the surface to be plastered. The mortar surface shall be finished at once by rubbed over with a trowel till the cement appears on the surface. All corners, angles and junctions shall be truly vertical and horizontal as the case may be and neatly finished. Rounding of corners and junctions where required shall be done without extra charges. Plastering in narrow grooves or making designed grooves on plastered surface are not separately payable. The mortar shall adhere to the surface intimately when set and there should be no hollow sound when struck.

The completed plastered surface shall be cured for a minimum period of 10 (ten) days.

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore  
**EXTERNAL AND INTERNAL PAINTING WORKS**

**PAINTING**

Approved paints, oils or varnishes shall be brought to the site of work by the contractor in their original containers in sealed condition. The materials shall be brought in at a time in adequate quantities to suffice for the whole work or at least a fortnight's work. The empties shall not be removed from the site of work, till the relevant item of work has been completed and permission obtained from the Architects/Owner. Ready mixed paint as received from the manufacturer without any admixture shall be used.

Commencing work

Painting shall not be started until the Architects/ Owner has inspected the items of work to be painted, satisfied themselves about their proper quality and given their approval to commence the painting work. Painting of external surface should not be done in adverse weather condition like hail storm and dust storm.

The rooms should be thoroughly swept out and the entire building cleaned up, at least one day in advance of the paint work being started.

Preparation of surface

The surface shall be thoroughly cleaned and dusted. All rust, dirt, scales, smoke and grease shall be thoroughly removed before painting is started. The prepared surface shall receive the approval of the Architects/Owner after inspection, before painting is commenced.

Application

Before pouring into smaller containers for use, the paint shall be stirred thoroughly in the containers. When applying also, the paint shall be continuously stirred in the smaller containers so that its consistency is kept uniform.

If for any reason, thinning is necessary in case of ready mixed paint, the brand of thinner recommended by the manufacturer or as instructed by the Architects/Owner shall be used.

The painting shall be laid on evenly and smoothly by means of crossing and laying off, the latter in the direction of the grain of wood. The crossing and laying off consists of covering the area over with paint, brushing the surface hard for the first time over and then brushing alternately in opposite direction, two or three times and then finally brushing lightly in a direction at right angles to the same. In this process, no brush marks shall be left after the laying off is finished. The full process of crossing and laying off is finished. The full process of crossing and laying off will constitute one coat. Where so stipulated, the painting shall be done by spraying. Spray machine used may be (a) high pressure (small air aperture) type, or (b) a low pressure (large air gap) type, depending on the nature and location of work to be carried out. Skilled and experienced workmen shall be employed for this class of work. Paints used shall be brought to the requisite consistency by adding a suitable thinner.



Spraying should be done only when dry condition prevails. Each coat shall be allowed to dry out thoroughly and rubbed smooth before the next coat is applied. This should be facilitated by thorough ventilation. Each coat except the last coat, shall be lightly rubbed down with sand paper or fine pumice stone and cleaned off dust before the next coat is laid.

No left over paint shall be put back into the stock tins. When not in use, the containers shall be kept properly closed.

No hair marks from the brush or clogging of paint puddles in the corners of panels, angles of mouldings etc. shall be left on the work.

In painting doors and windows, the putty round the glass panes must also be painted; but care must be taken to see that no paint stains etc. are left on the glass. Top of shutters and surfaces in similar hidden locations shall not be left out in paint.

In painting steel work, special care shall be taken while painting over bolts, nuts, rivets, overlaps etc.

#### Brushes and containers

After work, the brushes shall be completely cleaned of paint by rinsing with linseed oil or with turpentine. A brush in which paint has dried up is ruined and shall on no account be used for painting work, the containers when not in use, shall be kept closed and free from air so that paint does not thicken and also shall be kept closed and free from air so that paint does not thicken and also shall be kept safe from dust. When the paint has been used, the containers shall be washed with turpentine and wiped dry with soft clean cloth, so that they are clean, and can be used again.

### PRIMING COAT ON IRON OR PLASTERED SURFACE

#### Preparation of Surface

##### i) Iron & Steel surface

All rust and scales shall be removed by scrapping or by brushing with steel wire brushes. Hard skin of oxide formed on the surface of wrought iron during rolling which become loose by rusting, shall be removed.

All dust and dirt shall be thoroughly wiped away from the surface.

If the surface is wet, it shall be dried before priming coat is undertaken.

##### ii) Plastered Surface

The surface shall ordinarily not be painted until it has dried completely. Trial patches of primer shall be laid at intervals and where drying is satisfactory, painting shall then be taken in hand. Before primer is applied, holes and undulations, shall be filled up with plaster of Paris and rubbed smooth.

Application

The primer shall be applied with brushes, worked well into the surface and spread even and smooth. The painting shall be done by crossing and laying off as described in cement paint above.

**PAINTING WITH READY MIXED PAINT/SYNTHETIC ENAMEL PAINT**

Preparation of Surface

i) Iron and Steel work

The priming coat shall have dried up completely before painting is started. Rust and scaling shall be carefully removed by scrapping or by brushing with steel wire brushes. All dust and dirt shall be carefully and thoroughly wiped away.

ii) Plastered surface

The priming coat shall have dried up completely before painting is started. All dust or dirt that has settled on the priming coat shall be thoroughly wiped away before painting is started.

Application

The specification described in Cement Paint shall hold good as far as applicable. The number of coats to be applied will be as stipulated in the item. The painted surface shall present a uniform appearance and glossy/mat finish as described in schedule of quantities free from streaks, blisters etc.

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore  
**METAL DOORS, WINDOWS & VARIOUS STEEL WORKS.**

**STEEL DOORS, WINDOWS etc.**

The frames of doors, windows, ventilators etc. shall be formed by cutting section to required lengths and metres. The corners shall be electrically flash welded to form a solid framed welded joints. Sash bars of units shall be tenoned and rivetted into the frames and where they intersect the verticals tie shall be broached and the horizontal tie threaded through it, and the interaction closed by hydraulic pressure. For fixing steel hinges, slots shall be cut in the fixed frames and the hinges inserted inside and welded to the frame at the back. For fixing hinges to inside frame, the method described for fixing to outside frame may be adopted but weld shall be cleaned or holes made in the inside frame and hinge rivetted. The hinge pin and washer shall be galvanised or aluminium alloy 51 SWP of suitable thickness.

Each side hung shutter shall be provided with suitable protruding hinges and 300mm long peg stays and shall have holes to keep the shutter open in three different position up to 90° (The peg and the arm for the peg stay shall be rivetted).

The handle shall be mounted on the handle plate which shall be welded to the opening frames. The handle shall have a two points nose which will engage with suitable tapered striding plate of brass provided on the fixed frame.

Top hung and bottom hung ventilators shall be provided with two plain hinges, with 300mm long peg stays which will keep the shutter open in three different positions and will act as a stopper too.

Centre hung ventilators shall be made with two outer frames, with mastic water-proof compound embedded between these two outer frames. Unless otherwise specified the ventilators shall be provided with spring catch which when pulled by a cord, will allow the shutter bottom half to open outside and the top half opening inside.

Steel windows and ventilators shall be fixed to brick work with M.S. lugs of sizes 160 x 16 x 3mm and to concrete work by means of 100mm long counter sunk screw with rawl plugs or other approved fastener after drilling into concrete with a power drill as advised. The lug shall be grouted in concrete (1:2:4) mix as directed.

The frames should not be fixed in position until the structural work has been completed and the free deflection has taken place. The doors, windows etc. shall be erected in the true plumb, line and level.

All steel doors, windows, ventilators shall be given a coat of anticorrosive zinc-chromate primer at the shop before delivery to site for erection but in no case prior to the materials have been inspected by the Architect / Owner.

Final coat of primer and final painting shall be done after obtaining approval from the Architect / Owner.

**STEEL GRILL AND RAILING :**

The grills and railing for windows, verandha and balcony etc. shall be of mild steel. The design of grills / railings and shape and sizes of various components shall be according to the drawings.

The edge angles and corners shall be cleaned and cut true to shape. The joints, if possible, shall be mechanically interlocked and neatly spot welded in such a way that the grill is rigid. Grinding of the joints to achieve a neat regular finish shall be done. The grills shall be fixed to true plumb, line and level as per drawing.

Grills etc. shall be painted with one coat of zinc-chromate primer before they are fixed. The final coat of primer and final painting shall be done only after obtaining approval from the Architect / Owner.

**ROLLING SHUTTER**

Shall be of approved manufacture suitable for fixing in the position ordered i.e. outside, inside, on or below lintel or between jambs. Shutters up to 10 Sq.m. in area shall be manually operated or push and pull type while bigger sizes shall be of reduction gear type mechanically operated by chain or handles. The manually operated or push and pull type shutters shall be used up to a maximum of about 8 Sq.m. clear area without ball bearing and for area above 8 Sq.m. ball bearings shall be used.

These shall consist 1.25mm sheet or as specified with 80mm M.S. laths of best quality mild steel strips machine rolled and straightened with an effective bridge depth of 16mm and shall have convex corrugation. These shall be interlocked together throughout their entire length with end locks. These shall be mounted on specially designed pipe shaft. The lath sections shall be 0.9mm thick for shutters up to 3.5m width and 1.25mm for shutters 3.5m width or above unless otherwise specified.

The springs shall be of approved make coiled type. These shall be manufactured from tested high tensile spring steel wire or strip of adequate strength to balance the shutters in position. The spring, pipe, shaft etc. shall be supported on strong M.S. iron brackets.

Both the side guides and bottom rail shall be jointless and for single piece of 3.15mm thick steel.

Hood covers shall be made of mild steel sheets not less than 0.90mm thick for shutters having with 3.5m and less. The thickness of M.S. sheet for the hood cover above 3.5m shall be not less than 1.25mm.

Top cover of shaft, spring etc. shall be of the same material as that of lath.

For rolling shutter with wicket-gate night latch shall be provided free of cost.

COLLASPSIBLE GATE

These shall be of approved manufactures and shall be fabricated from the mild steel sections.

The gates shall consists of double or single collapsible gates depending on the size of the openings. These shall consist of vertical double channels each 20 x 10 x 2mm at 10cm centres braced with flat iron diagonals 20 x 5mm and top and bottom rails of T-Iron 40 x 40 x 6mm @ 3.5 kg/m with 40mm dia ball bearings in every fourth double channel, unless otherwise specified.

Wherever collapsible gate is not provided within the opening and is fixed along the outer surface T-Iron at the top may be replaced by flat iron 40 x 10mm.

The collapsible gate shall be provided with necessary bolts and nuts, locking, arrangements, stoppers, handles. Any special fittings like spring, catches and locks, shall be so specified in the description of item where so required.

The gate shall open and close smoothly and easily.

**TECHINICAL SPECIFICATIONS FOR SANITARY AND PLUMBING**

**1.0 SANITARY WARES AND ALLIED FITTINGS**

All sanitary wares with their allied fittings must be first quality (best) of approved make and brand. The contractor must state in his tender clearly the brand and make of sanitary wares for which he has quoted. No extra claim will be entertained for concreting / for encasing the bottom or making bed for setting of I.P.W.C. which are to be included in tender items. The flushing cisterns shall be automatic or manually operated, high level or low level, as specified for water closets and urinals.

**2.0 SQUATTING PATTERN W.C. PAN (INDIAN TYPE)**

The W.C. Pan shall be of white vitreous Chine of specified size and pattern (Orissa or long pattern as specified) with an integral flushing rim. It shall have the flushing horn in the back unless it is not possible to accommodate cistern to suit this design. The pan shall be of approved quality. It shall have 100mm C.L. or porcelain trap 'P' or 'S' type with minimum effective seal of 50mm and 50 vent arm.

**2.1 Fixing of W.C. Pan**

The Squatting type W.C. Pan shall be sunk in floor sloped towards the pan in a workmanship like manner, care being taken not to damage the pan in the process of fixing. If damaged in any way it shall be replaced at contractor's cost. It shall be fixed on a proper cement concrete base of 1:3:6 proportions taking care that the cushion is uniform and even without having any hollows between the concrete base and pan and finished just below level of rim of pan to receive the specified thickness of the floor finishing.

The joint between the pan and the trap shall be made with cement mortar 1:1 and shall be leak proof.

**3.0 PEDESTAL WASH DOWN SYPHONIC (SINGLE OR DOUBLE TRAP) WATER CLOSET (EUROPEAN TYPE)**

The W.C. Pan shall be of white vitreous China unless otherwise specified of one piece construction of wash down type with integral 'P' or 'S' trap as required. It shall be of approved quality and pattern.

**3.1 Installation**

The weight of the fixture and user are supported on the floor and not on the drainage pipe and this should be done in standard approved method.

**3.2 Seat and Cover**

The seat with lid shall be of well seasoned teak wood varnished or mahogany polished or plastic seat as specified with rubber buffers and shall be fixed in position by using Chromium plated brass hinges and screws. The seat shall be non-absorptive and free from cracks and crevices in the materials. The plastic seat and cover, where specified, shall conform it I.S. specifications, and shall be of white colour unless otherwise specified.

**3.3 Flushing**

The flushing of the Squatting and pedestal W.C. Pan shall be done by high level or 'low level' valve less symphonic flushing cistern of approved quality and capacity, as specified. In the former case, the connection between the flush pipe of the cistern and W.C. pan shall be made by using G.I. or lead inlet connection as specified. The other specification will be as for squatting pattern W.C. Pan.

The flush pipe shall be fixed to wall by using holder bat clamps or embedded, as required.

As specified, 12.5 litres or of any other capacity low level Cisterns shall be fitted with all internal fittings, brackets and C.P. brass flushing handle, and connected to the W.C. pan by means of 40mm diameter Chromium plated brass bend and rubber or any other, as specified.

#### 4.1 BRACKETS

The cistern shall be fixed on Cast Iron or rolled steel cantilever brackets or required strength which shall be firmly embedded in the wall or fixed by using wooden plug and screws, to the satisfaction of the Engineer. Depending on the quality of work and type of sanitary fixtures, the fixing of cistern should vary in quality of material and design also. Or it may be installed in other ways like placing on the top at the back of the W.C.

#### 4.2 OVERFLOW

The cistern shall be provided with 20mm G.I. overflow pipe with fittings which shall terminate into mosquito proof coupling secured in a manner that will permit it to readily cleansed or renewed, when necessary.

#### 4.3 FLUSH PIPE

The outlet or flush pipe from the high level cistern shall be of 32mm galvanised ( medium quality ITC) iron pipe or lead pipe of minimum thickness of 2.6mm as specified or PVC pipe as required by the Engineer which shall be connected to the W.C. pan by means of and approved type of joint. The flush pipe shall be fixed to wall by using holder bat clamps or embedded as required.

If the connection between the cistern and the W.C. pan is made with G.I. pipe, the bends, off sets shall be made cold.

#### 4.4 PAINTING

Inside cistern and fittings shall be painted with approved bitumastic paint and outside of the cistern, brackets, overflow and flush pipes etc. shall be painted, with any synthetic enamel paint of approved shade and make to give an even appearance. The cost of such painting shall be included in the rate quoted for the flushing cistern.

#### 4.0 STANDING URINALS

##### 5.1 Bowl Urinal

The urinal shall be flat back or angular pattern lipped front basin of required dimensions of white vitreous china and one piece construction with internal flushing box rim of an approved make as specified. It shall be fixed in the position by using wooden plug embedded



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in the wall with screw of proper size. Each urinal shall be connected to a 40mm dia. waste lead pipe unless otherwise specified, which shall discharge into a channel or a floor trap, or as specified.

5.2 Stall Urinals: The urinal shall and its screen shall be of white vitreous China of approved quality and manufacture. The stall shall be 114cm high and 46cm wide and 40cm deep. The stall shall be provided with 84cm x 36cm division plates. In case of two or more urinals there shall be further division plates similar to end screens. The range shall have 15cm deep tread plates of first class quality unless otherwise specified.

5.3 Flushing: The stall shall be provided with white glazed vitreous China automatic flushing cistern of proper capacity with 6 mm minimum body thickness unless otherwise specified. The cistern shall be complete with fittings and brackets which shall be fixed to the wall. The cistern shall be connected to the stall through standard size C.P. brass flush pipe with spreader arrangement and clamp unless otherwise specified.

5.4 Outlet: Each of stall be provided with C.I. urinal trap with vent arm having C.P. brass outlet grating of size 50mm for one or two stalls and 75mm for more stalls or as specified.

## 5.0 SQUATTING URINALS

### 6.1 Squatting plates

The urinal plates shall be of white glazed vitreous China with integral flushing rim of size 600 mm x 350mm as specified. There shall be white vitreous channel with stop and outlet pieces in front. The plate and channel shall be of approved quality.

The Joint between the urinal plate and the flush pipes shall be made with putty or white lead mixed with chopped hemp.

6.2 Outlet: The squatting plate or a range of squatting plates shall be provided with a 65 mm dia. standard urinal C.I. trap with vent arm having 65 mm. C.P. brass outlet grating or as specified.

6.3 Walling: The squatting plate shall have 1.22 m. high wall in front and on either side. These shall be lined as specified

## 7.0 CISTERN

### 7.1 Material

A high level cistern is intended to operate with minimum height of 191 cm. and a low level cistern with a height of 60 cm. approx. from the floor finish and the underside of the cistern.

The body thickness of a cast iron cistern shall not in any place be less than 0.5cm and that of an earthenware cistern 1.3cm. The body of a pressed steel cistern shall be of seamless or welded construction of thickness not less than 1.6mm before coating and shall be porcelain enamelled or otherwise protected against corrosion by an equally efficient coating. The

cistern with internal parts shall be free from manufacturing faults and other defects and operate smoothly and efficiently. The cistern shall be considered mosquito proof only if there is no clearance anywhere which would permit a 1.6 mm wire to pass through coupling in the permanent position (i.e. flushing or filling) of the cistern. The outlet fitting of each cistern shall be securely connected to the cistern. In the case of high level, the outlet shall be of 32 mm. Dia. (Nominal bore) and for low level 40mm dia. (nominal bore). The outlet of flush pipe from the cistern shall be connected to the pan by means of putty or cement and for E.P.W.C. with rubber joint and putty. The flush pipe shall be fixed to wall by using holder bat clamps; for the G.I. flush pipe, the bends and others shall be made cold.

The cast iron cisterns shall be painted with the two coats of bitumastic paint on the inside and synthetic enamel paint of approved colour and make to give an even appearance on the outside. The discharge rate of cistern shall be about 5 litres in 3 seconds when connected to an appropriate flush pipe and there shall be no appreciable change in the flush pipe and there shall be no appreciable change in the full discharge. The cistern shall have discharge capacity of 5, 10, 12.5, 1.3 litres with tolerance of +/- 1 ltr. The rate must include the cost of painting of cistern in and outside along with flush pipe as directed.

The cistern for a 'stall' type urinal or a w.c. may, depending on situation be of glazed vitreous China, coloured or white with the best quality fittings including brackets, as specified.

## 7.2 CAPACITY OF CISTERNS AND THE SIZE OF FLUSH PIPE FOR FLAT BACK (BOWL) URINAL

Capacity : The capacity of the flushing cistern and the size of the flush pipe for the number of urinals in a range will be as follow

Number of urinals in range	Capacity of flushing cistern	Size of pipe Main distribution
1	5 Litres	15mm
2	10 Litres	20mm 15mm
3	10 Litres	25mm 25mm
4	14 Litres	25mm 15mm

the joint between the urinal basin flush and waster pipe shall be made by means of putty of white lead mixed with chopped hemp, or as specified in case of lead pipe.

## 7.3 For Squatting Plate Urinal

Capacity : The capacity of the flushing cistern and the size of the flush pipe for the number squatting place urinals in a range will be as follows :

Number of urinals in range	Capacity of flushing cistern	Size of flush pipe Main distribution
1	5 Litres	20mm
2	10 Litres	25mm 20mm
3	15 Litres	25mm 20mm

The cistern shall be fixed on R.S or C.I. cantilever brackets of requisite strength which shall be embedded or fixed to the wall by means of wooden plugs and screws.

#### 8.0 WASHING BASINS

8.1 Basin : The wash basins shall be of white or coloured vitreous China as specified and of approved quality, make and pattern. It shall be one piece construction with an integral combined overflow. The size of the basin shall be as specified.

8.2 Fittings : Each wash basin shall be provided with 15mm C.P. brass pillar taps as specified, 32mm C.P. waster chain and rubber plug, unions, joints etc. complete in all respects of approved quality.

8.3 Fixing : The basin shall be supported on a pair of R.S. or C.I. Cantilever brackets of requisite strength embedded or fixed in position by means of wooden cleats and screws. These brackets shall be painted to the required shade including a coat of anti-corrosive paint. The wall plaster on the rear shall be cut to overhand the top edge of the basin.

8.4 Waste Connection : The waste shall discharge in to a floor trap leading to a gully trap on ground floor and on upper floor it may be connected to waste stack.

Where specified wash basins shall be provided with a 20mm G.I. puff pipe terminating with a brass perforated cap screwed on to it on the outside of the wall or connected to antisiphon stack. When the waste pipe discharges freely into a channel or floor trap and is of short length without any bends, no puff will be necessary.

#### 9.0 KITCHEN SINKS

Unless otherwise mentioned, the kitchen sink with drain board shall be of white vitreous China as specified and of approved quality, make and pattern. It shall be of one piece construction with an integral combined overflow. The size of the sink and drain board shall be as specified.

##### 9.1 Fittings :-

Each sink shall be provided with 15mm bib cock, 40mm waste, chain and rubber plug, unions, joints etc. complete in all respects as specified and of approved quality.

##### 9.2 Fixing :-

The sink shall be supported on a pair of R.S. or C.I. Cantilever brackets of requisite strength embedded or fixed in position by means of wooden cleats and screws. These brackets shall be painted to the required shade including a coat of anti-corrosive paint.

##### 9.3 Waste Connection :-

The waste shall discharge in to a floor trap leading to a gully trap on ground floor and on upper floor it may be connected to waste pipe stack.

10.0 KITCHEN SINKS

10.1 Mirror :-

The mirror shall be approved make glass with bevelled edges. The size and shape of the mirror shall be as specified. It shall be mounted on an asbestos sheet and shall be fixed in position by means of 4 C.P. brass screws and washers over rubber washers and wooden plugs firmly embedded in the wall. C.P. brass clamps with C.P. screws may be an alternative method of fixing.

10.2 Shelf :-

The shelf shall be of glass of approved quality with edge rounded off or of vitreous China (coloured or white) of approved make the size of shelf shall be as specified. The shelf shall have C.P. brass or aluminium guard rail with rubber washers on positions resting on glass plate and C.P. brass or aluminium brackets which shall be fixed with C.P. brass or aluminium screws to wooden plugs firmly embedded in the wall.

10.3 Towel Rail :-

The towel rail shall be of C.P. brass or aluminium with two C.P. brass or aluminium brackets. The size of the rail shall be as specified. The bracket shall be fixed by means of C.P. brass or aluminium screws to wooden cleats firmly embedded in the wall.

10.4 Chromium plated Stop Cock, Taps, Bib Cocks, Shower set. Gun Metal Peets Valves

Where not mentioned, cocks and taps are to be of brass standard head chromium plated of approved make and pattern. They must be capable to withstand at least 10.5 kg. Per sq.cm. Pressure applied for 5 minutes without leakage. The valve are to be of peet type gunmetal valves. Other conditions remain same as cocks and taps. The cocks and taps of brass bakelite head are to be of 'SOMA' brand manufactured by SOMA plumbing Fixtures Ltd.

10.5 Liquid Soap Holder

This shall be glass or P.V.C. or C.P. brass as specified. It shall be fixed in position by means of C.P. brass screw to wooden cleats embedded in the wall. The liquid soap holder shall be of approved make.

10.6 Toilet paper holder

The paper holder shall be of C.P. brass or vitreous China as specified. The rolled wooden paper holder shall be made of well seasoned teak wood.

**TECHNICAL SPECIFICATIONS FOR SOIL WASTES PIPES AND FITTINGS**

**1. PVC PIPES AND FITTINGS:**

**1.1. Scope:**

The scope of supply covers the manufacture, inspection, transportation and door delivery of PVC Pipes and Specials as per the drawing and IS specified herein.

**1.2. Technical particulars:**

The technical particulars of the pipes and specials shall be in accordance with specification and standards adopted by Kerala Water Authority.

**1.3. Inspection of Materials:**

The pipes are to be dispatched only after the inspection of pipes at your works by an approved third party inspecting agency or an Engineer authorized from this office, specially deputed for carryout the inspection for testing and certification. Necessary facilities for testing and certification are to be provided by the supplier. The charges for testing shall be met by the supplier. A minimum of 3 days advance notice is necessary for deputing the departmental officers for inspection.

**1.4. Color code:**

The pipe to be supplied should bear a color band of minimum of 5cm width, 30cm away from one end for easy identification of class of pipes as per standard specification of Kerala Water Authority.

**1.5. ISI Marking:** The pipes to be supplied under this order shall be with ISI marking only.

**1.6. Specific Gravity:**

The specific gravity of the material of the pipes shall be within 1.40 to 1.46 gm/cm<sup>3</sup> when determined in accordance with IS 13360 (Part 3/scc1) 1995 or revisions if any

**1.7. Stacking:**

Pipes shall be stacked in lots in the order of date of manufacturing on level ground. Stacking of untested Pipes over tested ones shall not be permitted. Each stack shall be given identification boards indicating date of manufacturing and number of pipes in the lot. Dispatching and Loading of pipes in to vehicles shall be arranged in the order of marking.

**1.8. Loading, Unloading and Transportation of Pipes:**

Handling, loading, transportation and unloading should be done in accordance with IS: 7321 of 1974 and its latest amendments and its costs.

**1.9. Installation**

**Step 1 - Cut the Pipe**

PVC can be cut easily. You can cut it with a hacksaw, but abrasive disks are made for miter saws that work better to get a straight edge. A joint that is skewed due to pipe not being cut straight can throw off the entire run of pipe.

### **Step 2 – Deburr and Fit**

After cutting, clean all shavings out of the pipe and deburr the inside edges. When the pipe is cut to the proper length, lay it out on the floor with fittings in place to determine if the length is correct. If it is the proper length, proceed to installation.

### **Step 3 - Clean and Cement**

First, the pipe must be cleaned with all-purpose pipe cleaner, called primer. Swab the primer around the end of the pipe and the inside of the fitting to ensure there are no contaminants that can get in the way of adhesion.

PVC is joined with a special type of cement. The cement sets up very quickly, so you must be ready to go as soon as it is applied. Coat the inner surface of the joint with the cement, insert the PVC pipe, and turn the pipe in the fitting a full turn if you can, and then turn it back to ensure that the glue has covered the entire joint. Be certain that the pipe is seated correctly in the joint.

### **Step 4 – Install Pipe Hangers**

Once the PVC pipe is in place, and you have determined it is of proper length, install pipe hangers to support the pipe. This eases strain on the joints that could lead to possible leakage. Follow recommendations for the distances from hanger to hanger, usually every 4 feet, allowing for movement in expansion and contraction. Be sure to protect the pipe from nails, screws, or abrasive materials.

### **Testing :**

Hydrostatic pressure testing (testing with water filled lines) is the only test method recommended and approved for pressure testing GF Harvel PVC and CPVC piping products. During pressure testing appropriate safety precautions must be taken to protect personnel and property from damage should a failure occur. The test pressure and duration of the pressure test performed should meet requirements of any local, state, or federal regulations as applicable. In the absence of any such requirements or regulations the following procedures can be used to properly conduct a hydrostatic pressure test on newly installed PVC and CPVC piping systems.

Strict adherence to proper solvent cementing instructions and set and cure times is essential to ensure the highest system integrity prior to pressure testing. Particular attention should be paid to pipe sizes, temperature at time of installation and any temperature variations over the set and cure period.

All solvent-cemented connections in the system must be fully cured properly prior to filling the system with water.

Pipe must be adequately anchored/restrained to prevent movement during testing.

The system should not be tested until authorized and subsequently witnessed by the responsible engineer.

Extreme care shall be used to ensure complete venting of all entrapped air when filling the system with water. Entrapped air is a major cause of excessive surge pressures that result in burst failures of rigid plastic piping systems.

Air must be removed from the system to prevent it from being locked in the system when pressure is applied.

The system should include the use of air release and air/vacuum relief valves located at high points in the system to vent air during filling, as well as during normal operation of the system.

The system must be filled slowly with water, venting air from valves at piping run ends and at elevations during the filling process. Whether a hydraulic hand pump or available water line pressure is used, any slow build-up of gauge pressure or any rapidly fluctuating gauge needle on a completely liquid filled system is a strong indication that entrapped air is present within the system. Should this occur, pressure should be immediately released and the line re-bled. Failure to do so can lead to a catastrophic failure when the water column is suddenly accelerated by the rapidly decompressing air should a faulty joint separate or other failure occur.

A maximum test pressure of 150% of the maximum stated system design operating pressure is considered satisfactory. The test pressure selected must not exceed the working pressure rating of the lowest pressure rated component in the system (i.e. threaded components, flanges, unions, valves etc.). Reduced test pressures must be used for any elevated temperature testing due to field conditions affecting temperatures. Appropriate temperature de-rating factors must be applied to determine a suitable test pressure at elevated temperatures ( $>73^{\circ}\text{F}$ ).

A test period of two (2) hours is usually considered satisfactory to demonstrate the integrity of the system.

If a leak is found the pressure must be relieved, the failed section cut-out, replaced, and allowed to cure properly prior to recharging and retesting the system.

GF Harvel recommends that large and/or complex systems be tested in segments as they are installed to permit evaluation and correction of improper installation techniques or other deficiencies as the project progresses. In buried applications the system should be hydrostatically tested prior to backfilling operations. During testing of buried lines, fittings and joints should be left exposed to aid in visual inspection for leakage. Sufficient earth cover should be placed over the pipe sections located between the fittings/joints to help prevent movement during testing. Any concrete anchors and/or thrust blocks must be allowed to cure completely prior to pressure testing.

**Caution:** Compressed air or gases must never be used for testing of rigid PVC and CPVC piping systems (refer to Caution Areas section for additional information). Improper installation, especially poor workmanship in solvent cementing techniques, can lead to an abrupt release of tremendous stored energy in the presence of compressed air or gas. This abrupt release of energy creates a “whipping action” of the piping where shattering of pipe and fittings is then apt to occur at directional changes and at points where the system is rigidly restrained.



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This scenario creates a substantial safety hazard to personnel. In addition, secondary hairline stress fractures caused by this effect can also be initiated which will tend to propagate over time resulting in additional failures. It is also known that certain additives present in air compressor lubricants are not chemically compatible with PVC/CPVC materials and will initiate stress cracking of the plastic, further increasing the potential for additional failures.

## 1.0 CAST IRON PIPES AND FITTINGS

### 1.1 Material

The cast iron soil waste anti-syphonage and drain pipes (spigot and socket joints) shall be of approved brand or make as specified with projecting ears or cast iron (centrifugally cast) soil pipes manufactured by M/s. Indo Swedish Pipe Manufactures Ltd., Agra with approved clamps.

Cast iron soil, waste fittings should be of similar type of approved and reputed manufacture. The pipe and fittings are to be clear, true to shape smooth casting, free from flaw, cylindrical, their inner and outer surfaces being as nearly as practicable concentric and to be securely fixed by stout iron nails driven through the clamps or ears into hard wooden plugs built into the walls. All bends and branches and other parts are to be similar in every respect of the pipes. They shall be sound and nicely cast and shall be free from cracks, laps, pin holes and other imperfection and shall be nearly dressed and carefully fitted. All pipes and fittings shall ring clearly when struck over with a light hammer and shall be capable of being easily worked with a drill or file.

#### i) Dimension of Sand Cast Iron Socket & Spigot Pipes

Sl. No.	Nominal dia or bore	Thickness	Overall 1.5m	Weight of Pipe 1.80m	Length 2.0m
	50mm	5.0mm	9.56 Kg.	41 Kg.	12.65 Kg.
	75mm	5.0mm	13.83 Kg.	52 Kg.	18.37 Kg.
	100mm	5.0mm	18.14 Kg.	67 Kg.	35.66 Kg.
	150mm	5.0mm	26.70 Kg.	92 Kg.	36.66 Kg.

#### ii) Dimension of Centrifugally Cast Socket and Spigot Pipes

Nominal dia.	Thickness mm	Approximate Weight for an Effective Length						
		3m Kg.	2.5m Kg.	2m Kg.	1.75m Kg.	1.5m Kg.	1m Kg.	0.5m Kg.
50	3.05	13.4	11.3	9.2	8.2	7.1	5.0	2.9
75	3.50	20.0	16.8	13.8	12.2	10.6	7.4	4.3
100	4.0	30.0	25.5	21.0	18.4	16.0	11.2	6.5
150	5.0	56.0	47.0	28.5	34.0	29.5	21.0	12.0

A tolerance up to minus 15% in thickness and 20mm in length will be allowed. For fittings tolerance in length shall be plus 25mm and minus 10mm. The access door fittings shall be designed so as to avoid dead space in which filth may accumulate. Door shall be provided with 3mm rubber insertion packing when closed and bolted.

A tolerance up to minus 10% may, however, be allowed against these standard weight.

All lead joints should be done with Pig lead of approved quality. Our sample of pig lead for the entire work shall be tested for composition to ensure its conformity to IS-782.

Approximate requirement of  
Lead required for joint

a. 100mm dia. pipe joint	:	0.98 Kg.
b. 75mm dia. pipe joint	:	0.88 Kg.
c. 50mm dia. pipe joint	:	0.77 Kg.

1.2 Laying of Pipes

By centering the spigot with in socket and using packing yarn / gasket compacted so as to leave a depth for receiving quantity of lead in a continuous pouring from ladle. After pouring lead in the joints in full, caulking is to be done 3 times may be sealed with pure virgin lead.

Door shall be provided with 3mm rubber / asbestos packing insertion when closed and bolted.

Quantity of lead and yarn to be used in every joint must be 35mm depth of lead from the lip of pipes and spun yarn dipped in bitumen solution for the rest depth / and approximate requirement of lead as shown above.

For laying horizontal H.C.I. pipe inside the building it should be suspended from R.C. slab by means of special brackets or handers fixed to walls or slab as directed with a given grade 38mm per metre.

1.3 Testing

The soil and waste pipes and fittings as laid shall be smoke tested to the entire satisfaction of the Engineer. Cost of testing shall be included in rates including the tools, machinery and fuel. No extra claim for this will be entertained. The material usually burnt in grease cotton waste which gives out a clear pungent smoke which is easily detected by sight and smell. Smoke shall be pumped into the drains of the lowest end from a smoke machine which consists of blower and burner.

1.4 Measurement

All pipes shall be measured net / length as laid or fixed and shall be measured over all fittings such as bends, junctions, traps etc. The length shall be taken along the centre line of the pipes and fittings. Fittings will be counted extra over. Before fixing and painting, the pipe shall be tested hydraulically on ground at a pressure of 0.4 kg./sq.cm for pipes under sand cast iron and at a pressure of 0.7 kgf/sq.cm. for pipes under centrifugally cast iron pipes without showing any sign of leakage, sweating or other defect of any kind. The pressure shall be applied internally and shall be maintained for not less than 15 seconds.

**TECHNICAL SPECIFICATION FOR WATER SUPPLY PIPES & FITTINGS****1.0 G.I. PIPES AND FITTINGS****1.1 Mineral**

All galvanised iron pipes are to be of mild steel continuously welded, screwed tubes, medium quality of M/s. Indian Tube Company, Jamshedpur make. The pipes and sockets shall be cleanly finished well galvanised in and out and free from cracks surface flaws, lamination, and any defects with threads well cut and clean. The details of pipes and sockets regarding nominal bore, thickness, and weight in kg/m are given below. All G.I. fittings shall be of approved brand or make as specified. The pipes and fittings are to be screwed conforming to British Standard gas thread. In jointing the pipes, threaded portion of both pipes and sockets shall be oiled and rubbed over with white Zinc and fine spun yarn.

The Zinc coating of galvanised tubes is to be 6% heavier than Black tubes. Every length of tube is to be hot stamped at manufacturing stage with ITC-TATA symbol and letter M.

**DIMENSIONS AND NOMINAL WEIGHTS OF STEEL TUBES & SOCKETS**

Approx. Outside Dia. in mm	Nominal bore in mm	Screwed and socketed			S o c k e t s	
		Lot Kg/metre			-----	
		Approx.. Minimum Mm				
		Light	Medium	Heavy	outside Dia. mm	length mm
21.3	15	0.961	1.23	1.46	27	37
26.9	20	1.42	1.59	1.91	32.5	39
33.7	25	2.03	2.46	2.99	39.5	46
42.4	32	2.61	3.17	3.87	49	51
48.3	40	3.29	3.65	4.47	56	51
60.3	50	4.18	5.17	6.24	68	60
76.1	65	5.92	6.63	8.02	84	69
88.9	80	6.98	8.64	10.3	98	75
114.3	100	10.2	12.4	14.7	124	87
139.7	125	--	16.7	18.3	151	96
165.1	150	--	19.8	21.8	178	96

15mm (1/2") n.b up to and including 80mm (3") n.bb – Hot finished Continuous Weld Tubes.

100mm (4") n.b. and up to 150mm (6") n.b. – Hot finished seamless tubes.

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Manufactures Tolerance shall be permitted on tubes as indicated below:

THICKNESS	WEIGHT	
Not limited i) for quantities 150metres and over of	One size: +/- 4%	10%
ii) for single tube and quantities less than		
50 meters of one	size: + 10 &	- 8%

## 1.2 Laying of Pipes

The layout of the mains and service pipes will be according to the drawings. The contractor is to mark out the exact position of the fittings and the exact run of all the pipes and must ascertain from the Engineer, that these are approved, before commencing the work.

### 1.3 External Line

Where the pipes run underground these must be fixed at least 45cm below ground level and coated with one coat of approved bituminous paint.. the galvanised iron pipes and fittings shall be laid in trenches, the width and depth of the trenches for different dimension of the pipes shall be as given below

<u>Dia. of Pipe</u>	<u>Width of trench</u>	<u>Depth of trench</u>
15mm to 51mm	30 cm	60 cm
65mm to 100mm	45 cm	75 cm

The pipes shall be painted with two coats of anticorrosive paint of approved quality. The pipes shall be laid on a layer of 7.5cm sand and filled up to 15cm above pipes and the remaining shall then be filled with excavated earth with proper ramming as described in "Excavation and refilling".. Pipes shall not be laid so as to pass through manhole, catch pit drain under any circumstances. Where it is unavoidable,, the pipes shall be carried in sleeve MS/GI Pipe as approved by the Engineer, cost of which should be included in the item rate. Where the service pipe will enter the building below ground level a sleeve pipe is to be provided. The underground water service pipe should be kept at a sufficient distance apart from sewer line, at least 30cm above where it will cross over the sewer pipe or in common trench. The rates for all above work should be included in item of pipes.

## 1.4 Internal Work

Where the pipes run along walls, these are to be fixed at 25mm away by holder bat clamps fixed at a distance not exceeding 1.80cm apart and both sides of turning point. Where the pipes are chased in wall as shown in the drawing or specified in the bill of quantities, the pipes are to be secured to wall by hook fixed at an interval of 1 M and hooks at all sides of the branches and turning point, where the pipes are passing through the RCC/masonry wall, column, beam or pillar, these must pass through the appropriate higher sizes of CI/GI sleeve pipe and are to be included in the rates. No extra claim will be entertained. In case the pipe

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id embedded in walls and floors,, it should be painted with anticorrosive bituumbastic paint of approved quality.

It should not come in contact with lime mortar or lime concrete as it is corroded by lime. All pipes should be fixed horizontal and vertical..

For pipes 15mm to 50mm diameter the holes in the walls and floors shall be made by drilling with chisel of jumper and not dismantling the brick work or concrete. After fixing, the holes shall be made good with cement mortar 1:3 and properly finished to match the adjacent surface. Union is to be provided in each of the vertical riser or drop on and from water tank one each near the peets valve.. The long screw fittings are to be fitted at an interval of 3 metres for long horizontal line and inside the lavatory/kitchen/laboratory etc., after 2 meters..

#### 1.5 Testing the joints and Lines

After laying and jointing the pipes and fittings shall be inspected under working condition of pressure and flow. Any joint found leaking pipes should be removed and replaced without extra cost. The pipes and fittings after they are laid shall tested to hydraulic pressure 6kg/Sq.cm... (60 meter) for internal work and for CI water main a pressure of 7Kg.. per Sq.Cm the pipes shall be carefully charged with water allowing all air to escape and voiding all shock or water hammer. As water comes out of taps, stop cocks shall then be closed and specified hydraulic pressure shall be applied gradually, PRESSUIRE gauge should be accurate and preferable should have been tested. The test pressure should be maintained without loos for at least half an hour.

#### 1.6 Painting (exposed)

On completion of the test the exposed pipes and fittings are to be painted with two coats of Synthetic enamel paint of approved colour over a coat of priming and the pipes running underground shall be painted with two coats of anticorrosive bitumastic paint with and bed all round.

#### 1.7 Measurement

The length shall be measured in running metre correct to 2 decimal for the finished work, which shall include the G.I. pipes and fittings such as bends, tees, elbows etc. but excludes brass or gun metal fixtures like taps, cocks, valves, PVC connectors etc. The length shall be taken along the centre line of the pipes and fittings as mentioned above. All pipes and fittings shall be classified according to their diameters, method of jointing and fixing substance, quality and finish. The diameter shall be the described as including all cutting and waste. In case of fittings of an unequal bore the larger bore shall be considered. Digging and refilling trenches, cutting and chasing, painting, clamps testing etc. should be clubbed with the main item.

### 2.0 BALL VALVE

#### 2.1 Material

The ball valve shall be of high or low pressure class as mentioned in the schedule of quantities and shall be obtained from approved and reputed manufacturer. The nominal size

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of ball valve shall be that corresponding to the size of pipe for which it is used. The ball valve shall be of brass or gunmetal and the float for low pressure in polythene and for high pressure in copper. Details of all associated components and their materials are to be best available quality.

Every ball valve while in closed position shall withstand an internally applied hydraulic pressure of 20Kg/sq.cm for a minimum period of 2 minutes without leakage or sweating. Every HP ball valve when assembled in working condition with the float immersed to not more than half its volume shall remain closed against a test pressure of 10.5Kg/sq.cm and a L.P. ball valve against a test pressure of 5.3Kg/Sq.cm.

## 2.2 Polythene Floats

Polythene floats shall be water tight and non—absorbent and shall not contaminates water and with no adhesive jointing parts. Bosses shall be integral part of the plastic float fitted with a copper corrosion resistant insert to carry the thread and tapped. The thickness of the wall measured at the major diameter of the thread shall be equivalent to not less than half the nominal thread diameter. All bosses and inserts in bosses of plastic floats shall be rigid in relation to the float under working condition.

## 2.3 Copper Float

The minimum thickness of the copper sheet used for making balls finished bright shall be 0.45 mm for ball up to 115mm dia. and 0.55mm float ball over 115mm dia. The thickness of materials of the float shall be uniform throughout.

Dimensions of float and boss

Sl. No.	Particulars	Dimensions for Nominal Size: (in mm)					
		(15mm)	(20mm)	(25mm)	(32mm)	(40mm)	(50mm)
1.	Dia. of spheri- HP 127	152	203	229	254	305	
	Cal float LP 114	127	178	203	203	254	
2.	Tapping of boss M8x	M8x	M12x	M14x	M14x	M16x	
	1.25	1.25	1.75	2	2	2	
3.	Axial length of 8	8	133	16	16	18	
	Thread minimum (Min)	(Min)	(Min)	(Min)	(Min)	(Min)	
4.	Dia. of barrel						
	Or if tapered dia.						
	Of small and 12.5	16.5	17.5	20.5	22.5	22.0	
	Minimum (Min)	(Min)	(Min)	(Min)	(Min)	(Min)	



**3.0 FERRULES**

The ferrules for connection with CI main shall be obtained from the approved manufacture as specified. It shall be of non-ferrous materials with a CI bell mouth cover and shall be of nominal bore as specified. The ferrule shall be fitted with a screw and plug or valve capable of complete shutting off the supply to the connected pipe as and when required. For fixing ferrule the empty main shall be drilled and tapped at 45 degree to the vertical and ferrule screwed in. The ferrule must be so fitted that no portion of the sunk shall be left projecting within the main to which it is fitted.

**DIAMETER OF IN AND OUT OPENINGS:**

<u>DIA</u>	<u>DIA</u>	:	<u>DIA</u>	<u>DIA</u>
IN	OUT	:	IN	OUT
1/8"	1/2"	:	3/4"	3/4"
3/8"	1/2"	:	1"	1"

**4.0 BRASS GUN METAL, NON-RETURN VALVE (CHECK VALVE)**

The non-return valve shall be of brass or gunmetal and shall be of horizontal or vertical flow type and of the size as listed. The valve shall be approved quality heavy type shall be obtained from the approved manufacturer and shall have the following weights with a tolerance of 5 percent.

Dia. in mm	Horizontal type in Kg.	Vertical type in Kg.
15	0.30 (Provisional)	0.25 (Provisional)
20	0.55 „	0.25 „
25	0.90 „	0.75 „
32	1.25 „	0.90 „
40	1.70 „	1.20 „
50	2.90 „	1.45 „
65	5.25 „	2.15 „
80	7.70 „	4.10 „
20	0.55 „	0.25 „

**5.0 BRASS BIB COCK AND STOP COCK**

A bib cock is a draw off tap with a horizontal inlet and from outlet and Stop Cock is a valve with a suitable means of connection for insertion in a pipe line for controlling or stopping the flow. They shall be of screw down type.. The closing device should work by means disc, carrying a renewable non-metallic washer which shuts against water pressure on a seating at right angles to the axis of the threaded spindle which operates it. The handle shall be either crutch or butter fly type or standard head securely fixed to the spindle. Valve shall be of the loose leather seated pattern.

The cocks shall open in anti-clock wise direction. The bib cock and stop cock shall be polished bright, if chromium plated. Finish must be of approved type. Finished weight of the bib tape and stop taps are as follows:

Size in Mm	Minimum finished weight in Kg	
	Bib Taps	Stop taps
15	0.40	0.40
20	0.75	0.75
25	1.25	1.36
32	1.80	
40		2.25
50		3.85

In finish and appearance the plated articles when inspected shall be free from plating defects such as blisters, pits, roughness and unplated areas and shall not be stained or discoloured. Before a fitting is plated, the washer plates shall be removed from the fittings.. The gland packing shall be protected from the plating solution.

#### 5.1 Gunmetal Bib Cock and Stop Cock

These shall be of gun metal screw down patterns. So far as the general requirements of materials are concerned these shall be similar to those as described above. The weights are also same.

#### 6.0 BRASS FULLWAY VALVE

Full way valve is a valve with suitable means of connection for insertion in a pipe line for controlling r stopping the flow. The valve shall be of gate valve type opening full way and of the size as specified.

The valve shall be of best quality of approved make as listed and shall have the following approximate weights with tolerance of 5 per cent.

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Dia. (in mm)	Flanged end (Kg)	Screwed end (Kg)
15	1.021 (Provisional)	0.567 (Provisional)
20	1.503 (    „    )	0.680 (    „    )
25	2.495 (    „    )	1.077 (    „    )
32	3.232 (    „    )	1.559 (    „    )
40	4.082 (    „    )	2.268 (    „    )
50	6.691 (    „    )	3.232 (    „    )
65	10.149(    „    )	6.804 (    „    )
80	13.381(    „    )	8.845 (    „    )

7.0 Gun Metal Full Way Valve with Wheel

This shall be of the gun metal fitted with wheel and shall be of gate valve type opening full way. This shall generally be of approved make as listed.

8.0 Water Tank

Installing, hoisting of ready made mild steel, galvanised iron pressed steel, asbestos cement water tanks constructing the RCC tanks shall be carried out with proper care, using best quality materials, care being taken that no part of the tank or of the structure is damaged during operation. The tanks or of the structure is damaged during operation. The tanks shall be installed true to level and drawing. Steel tanks of capacity up to 1800 litres (Mild Steel or galvanised iron as specified) shall be of 1.6mm thick sheet riveted to 32mmx32mmx6mm angle iron frame complete with MS/CI cover with locking arrangement including providing pads of sizes as required for inlet and outlet pipes. GI overflow pipe piece of specified size with mosquito proof coupling and with backing nut of required sizes shall also be provided as specified and shall be measured and paid for separately. P.S. tanks, details and arrangements, installation should be as per manufacturer's specification..

9.0 Trench for CI Pipes and specials (for underground water main)

The trench for the pipes shall be excavated to lines and levels as directed. The bed of the trench shall have to be truly and evenly dressed throughout from one change of grade to the next. The gradient is to be set out by means of bonning rods and the required depth and similar to as described under excavation of branches in S.W. pipes.

Laying

Before laying the pipes they shall be examined to see that there are no cracks or defects. Subject to the approval of the Engineer the damaged portion of the Cracked pipe may be cut at a point not less than 15 cm beyond the visible extremity of the crack with diamond pointed chisel. The pipe shall be thoroughly cleaned of all dust and dirt. Special care shall be taken

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to clean the ` inside of the sockets and the outside of the spigots before lowering the pipes into the trenches. Holes to receive the sockets shall be scooped out in the trench bed so as to firmly bed the full length of the pipe.

The pipes shall be lowered into the bench by means of suitable pulley blocks, shear legs, chains, ropes etc. In no case the pipe shall be rolled and dropped into the trench. After lowering the pipes, they shall be arranged to coincide the centre line of pipes with the centre line of alignment. The spigot of one shall be carefully cantered into the socket of the next pipe and driven to the full distance that kept in position by earth filling, well watered and rammed at two or more places in its length.

In case thrust or anchor blocks of cement concrete 1:2:4 shall be constructed on all bends or branches to transmit the hydraulic pressure without impairing the ground and spreading it over a sufficient area.

#### 10.0 CHAMBERS/MANHOLES

10.1 At every change of alignment, gradient or diameter of a drain there shall be a manhole or inspection pit. The maximum distance between manhole chamber shall be 30M for road, 15M within compound.

#### 10.2 Size

All manholes shall have internal dimensions as shown on drawings. The depth of invert shall be according to the gradient.

#### 10.3 Foundation

The base concrete shall be 15cm thick and with 1:3:6 concrete mixture laid over the brick flat holing. The slab shall be finished 75mm beyond the external faces of the brick work.

#### 10.4 Brick work

The brick work shall be in cement sand mortar in the proportion 1:4 and 250mm thick or as mentioned in the tender. The joints shall be raked out and finished with cement and sand mortar 1:2 trowelled hard and smooth to a thickness of 20mm.

#### 10.5 Plaster

Inside the walls shall be plastered as specified in the item and shall be finished with floating coat of neat cement. In wet ground 20mm thick plaster shall be done on the exterior surface of the walls also and this plaster shall be water proof with the addition of approved water proofing compound as per manufacture's specification.

#### 10.6 Ponting

In dry ground shall be done in 1:2 cement mortar the outside surface.

#### 10.7 Hunching and Construction

On the top of the base slabs from half pipe channel longitudinally at the centre, the channel is to be hunched up with concrete slopping towards from the edge of channel to meet the

side of the chamber at gradient of 1:6. The channel and the benching are to be floated to smooth hard surface with a coat of cement mortar 1:1 using extra cement. Sewers of unequal sectional are shall not be jointed at the invert in a manhole unless it is unavoidable. The branch sewers should deliver sewage in the manhole in the direction of main flow and the junction must be made with care so that flow in main is not impeded. In case of drop connection flow in main is not imbedded. In case of drop connection C.I. shall be provided with heel rest bend at the bottom and bend with access door at the top for cleaning purposes.

#### 10.8 Channel

Channel for drains coming from side of the manhole chamber shall be curved to meet the main drainage channel. The channels and benching shall be done in cement concrete 1:3:6 and rendered smooth with neat cement. The depth of channels and benching shall be as follows:

Size of of Drain inn Mm	Top of Channel at the centre above bed concrete (mm)	Depth of benching side walls above bed concrete (in cm)
100	15	20
150	20	30
200	25	35
250	30	40
300	35	45
350	40	50
400	45	55
450	50	60

The brick work in shallow manhole shall be corneled to the required size for the cast iron manhole cover and frame.

#### Footrest

C.I. foot rests or M.S. Square rods of 20mm shall be embedded in masonry. They shall be fixed 225mm apart and projecting 125mm from the wall face.. Foot rest shall be painted with bitumen as directed.

#### 11.0 CUTTING HOLES, CHASES, ETC. REPAIRING THE SAME

Holes and chases to be cut into walls, slabs, etc.. must be of the minimum size and extent required to run the service and in no case superfluous cutting is to be resorted to. After the services are laid, the chases and holes must be made good in cement concrete with suitable finish. These repairs must be done very carefully so that the finished surface is uniform and harmonious with the rest of the adjoining surface. No extra claim will be entertained in this respect.

## 12.0 CAST IRON MANHOLE COVERS AND FRAMES

12.1 Unless otherwise mentioned the covers and frames shall obtain from approved manufacture and shall be of approved makes and brands as listed. Heavy duty covers etc. under heavy vehicular traffic condition and capable of bearing wheel loads up to 11.25 tones are to be used, medium duty under light type wheel traffic load; light duty for domestic premises use or other places where they are not subjected to wheel traffic loads.

Covers and frames shall be cleanly cast, double water seal type and they shall be free from air and sand holes, cold shuts and wrapping which are likely to impair the utility of the casting. All casing shall be free from voids whether due to shrinkage, gas inclusion or other causes. The cover shall be gas tight and water tight with proper seal arrangement, but can be easily opened and closed and it shall be fitted in the frame in workmanship like manner. The cover used for sewer line should bear sewer engravings on top of casting. Similarly for storm line it shall be marked 'storm'. Size and dimensions are given below with weight. Covers shall have raised chequered design to provide and adequate non-slip grip. The covers and frames shall be coated with a material having a base or with black bituminous composition. The coating shall be smooth and tenacious. It shall not flow when exposed to temperature of 60 degree centigrade and shall not be so brittle as to chip off at a temperature of 0 degree centigrade. The frame of manhole cover shall be firmly embedded to correct alignment and levels in R.C.C. slab or plain concrete as the case may be.

Type Grade	Overhead Size in cm.	Clear opening In cm.	Weight of cover in Kg.	Weight of frame in Kg.	Test load in tonne
HD Double	78 x 76	50	118	111	35
Triangular		56	140	115	35
HDCircular	76 dia,	50 dia.	118	111	35
	81 dia,	50 dia.	140	115	35
HDCircular	71 dia.	50 dia.	58	58	5
	76 dia.	56 dia	64	64	5
HD Rectangular	84 x 68.5	61 x 45.5	80	64	5
LDRectangular	75 x 56	45.5 x 61	29	23	
	or				
Circular	76 dia.	45.5 dia.	29	23	

## 13.0 GULLY PIT

To be of the standard size 1.06 m x 0.63 m and to be built in cement mortar (3:1) as specified in strict accordance with the drawings. The internal sides and the floor are to be finished with 12mm cement plaster to be fitted with a 150 mm C.I. overflow pipe with hinged cover and handle 0.90 x 0.45 C.I. gully grid of the standard weight, 15 cm siphon. The gully grid and frame are to be of 116 kg.

14.0 S.W. Gully Trap

S.W. Gully trap of specified sizes and quality shall be fixed 15 cm. thick cement concrete 1:3:6 bedding and the gully outlet of the branch drain shall be joined similar to joining of S.W. pips. A brick masonry chamber 30 cm x 30 cm internally shall be constructed in half brick masonry with 1:6 cement mortar and space between the trap and the wall filled up with cement concrete 1:4:8 and the upper portion of the chamber finished internally with 1:3 cement mortar and finished with neat cement, the corners and the bottom of the chamber shall be rounded off so as to slope towards the grating. In addition the chamber shall have a C.I. grating with frame 30 cm. x 30 cm. (inside) with machined seating faces, fixed on the top of the brick with cement concrete 1:2:4 and rendered smooth. The weight off grating shall not be less than 4.53 kg. and that at frame 2.72 kgs.



**MODE OF MEASUREMENTS**

The method of measurement for various items in the tender shall be generally in accordance with the latest CPWD practice subject to the following:

**1. Excavation :**

- (a) **Footings :** Area of Excavation shall be measured equal to the area of the lowest concrete course or brick flat soling or dry rubble packing as shown on the drawing. Depth shall be measured vertically from ground level to bottom of concrete course or dry rubble packing or brick flat soling as the case may be
- (b) **Plinth beams :** Depth of excavation for plinth beam shall be measured from ground level upto bottom of beam and width equal to width of beam. If a levelling course is ordered, it shall be measured up to the bottom of the levelling course.
- (c) Where excavation is made in trenches, measurements for cutting shall be taken by means of tape and staff and the width of concrete or rubble packing or brick flat soling as shown on the Drawing shall be considered as width of excavation.
- (d) Where excavation is made for levelling the site, levels shall be taken before start and after completion of work and total quantity of excavation computed from these levels in manner approved by the Architect.
- (e) Where soil including soft rock and hard rock are mixed, hard rock after excavation shall be stacked separately. Measurement of the entire excavation shall be taken as indicated above. Excavation of hard rock shall be measured from stacks of excavated hard rock and reduced by 50% for bulk age and voids. The quantity so arrived at shall be paid for under hard rock. The difference between the quantity of entire excavation and quantity payable under hard rock shall be paid as soil including soft rock.
- (f) Any additional excavation required for working space, form work, Planking, dewatering, strutting etc. Shall not be measured and paid for separately but rates quoted for excavation shall include for all these factors. No increase in bulk after excavation shall be made.

**2. Earth filling:**

In open spaces : Filling shall be measure from cross section embankments, levels of which are recorded by means of levels before start of work and after completion of work. When it is not possible to measure filling from cross sections, it may be measured from loose stacks of lorry measurements with previous written permission from the Architect and 20% deduction shall be from the measured quantity to arrive at the net quantity payable

**Earth filling in plinth:**

The payment of earth filling in plinth shall be made on measurement of finished consolidated quantity.

**Disposal :**

If payable the net volume shall be based on theoretical calculation.

**3. Cement Concrete (Reinforced)**

Cement concrete in R.C.C. items shall be measured in cum. without reduction for volume of reinforcements and other inserts.

Items like R.C.C. precast jali, R.C.C. pipes and other such items which are normally manufactured in factories as well as those items which have been specifically mentioned in schedule of quantities shall be measured inclusive of reinforcement.

No deduction will be made for openings up to 0.1 sq.m. and no extra labour for forming such opening or voids shall be paid for.

Columns shall be measured from the top of the footing and shall be measured through the slab including flare of the column in case of flat slab construction.

Beams shall be measured from face to face of columns / beams and shall include haunches, if any. The depth of the beam (other than raft foundation beams) shall be measured from the top of the slab to bottom of the beam.

In case of combined footings and raft foundation, the exposed portion of beam rib shall be measured as beam and the remaining portion measured in footing / raft slab.

Slab (other than in raft foundation) shall be measured in between bays of beams with deduction for column portion.

Chajja : Only projected portion shall be measured.

Staircase : Measurements shall be in Cu.M. staircase comprising of step, soffit slab, landing slab shall be measured and paid under this item. Side parapet walls, railings, finishing of risers and treads, M. S. reinforcement and plastering etc. shall be paid separately under respective times.

#### 4. Reinforcement :

Shall be measured in lengths of bars as shown in drawing. Weight will be calculated as per standard tables with 3 places of decimals; no allowance being made in the weight for rolling margin. Wastage and binding wire shall not be measured. Authorised overlaps and spacers shall only be measured.

#### Form work :

Area in contact with concrete shall be measured and paid for. In case of formwork below ground level, no extra shall be payable for earth work in excavation / filling required for such formwork.

#### 5. Brick Work :

Except walls of half-brick thickness or less, all brick work shall be measured in cubic metres.

Under otherwise mentioned wall of half-brick thickness or less shall each measured separately and given in square metres stating the thickness.

Thickness of wall :

Brick walls up to and including three bricks in thickness shall be measured in multiples of half-brick which shall be deemed to be inclusive of mortar joints. Where fractions of half-brick occur due to architectural or other reasons, the measurements shall be taken as full half-brick.

For walling, which is more than three bricks in thickness the actual thickness of wall shall be measured to the nearest centimetres.

Honey combed brick walling shall be given in square metres stating the thickness of wall and the pattern of hone combing. Honey comb openings shall not be deducted.

Deduction :

No deduction or additions shall be made on any account for

- (1) ends of dissimilar materials (i.e. joists, beams, lintels, lofts, girders, rafter, purlins, trusses, corbels, steps etc.) up to 500 square centimetres in section.
  - (2) Openings up to 0.1 Sq.m. in section.
  - (3) Wall plates, bed plates and bearing of slabs, chajjas and the like where the thickness does not exceed 10cm. and the bearing does not extend over the full width of the wall.
6. Steel doors, windows, ventilators, louvers :  
Clear area over one face inclusive of exposed frame shall be measured. Holdfasts or portions embedded in masonry or flooring shall not be measured. All composite units shall be measured as fixed. Extra for side hung, top hung and centre hung portions shall be measured from outside of the casement frames.
7. Steel rolling shutters and rolling grills :  
Clear width between side jambs and clear height between floor and bottom of lintel / beam shall be measured. Hood shall not be measured separately. The rate should be inclusive of the cost of hood.
8. Collapsible Gate :  
The height of the gate shall be measured as the length of the double channels and breadth from outside to outside of the end fixed double channels in open portion of the gate.
9. Flooring, Skirting, Dado :  
Flooring shall be measured from skirting to skirting and where the wall surfaces are plastered or provided with dado it shall be measured from plaster to plaster or dado to dado.
- The skirting and dado shall be measured clear from the floor to the top of tile, and length shall be between finished tiles faces measured along the floor.

The measurement of floor, skirting and dado shall be in Sq.m.

10. Plastering & Pointing :

All plastering and pointing work shall be measured in square metres unless otherwise described.

Net area of surface plastered (the area of the surface before plastering) shall be measured after deducting half the area of openings. Jambs and soffits, will not be separately added. No deduction will be made for ends of joints, beams, posts, etc.

Plastering in narrow grooves or for designed grooves shall not be separately paid for.

11. Painting, French polishing, White washing, Colour washing and Distempering :

All painting work shall be measured in accordance with IS : 1200.

12. Lime Punning – same as Plastering.

Note :- All work under this contract shall be carried out in accordance with the technical specifications specified in the contract. However, if specifications for any item has not been specified in the contract, the relevant Indian Standard specification applicable to the particular class of work shall apply. In case of any confusion or dispute regarding the meaning and interpretation of any specification for any item, the decision of the Employer / Architects shall be final and binding on the contractors.

Sl No	Description of Work (1)	How Measured (2)	Multiplying Factor (3)
1	Panelled, or Framed and Braced or Ledged and Battened or Ledged battened and Braced joinery.	Measured flat (not girthed), including CHOWKA or frame. Edges, Chocks, Cleats etc. shall be deemed to be included in the item.	1.30 (for each side)
2	Flush Doors	Measured flat (not girthed), including CHOWKA or frame. Edges, Chocks, Cleats etc. shall be deemed to be included in the item.	1.20 (for each side)
3	Fully Glazed or Gauzed joinery	- do -	0.80 (for each side)
4	Partly Panelled and Partly Glazed or Gauzed joinery.	- do -	1.00 (for each side)
5	Fully venetioned or louvred joinery	- do -	1.80 (for each side)
6	Weather boarding	Measured flat (not girthed), supporting frame work shall not be measured separately.	1.20 (for each side)
7	Wood shingle roofing	Measured flat (not girthed).	1.10 (for each side)
8	Boarding with cover fillets and match boarding.	Measured flat (not girthed).	1.05 (for each side)

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9	Tiles and Slate battening	Measured flat over all; no deduction shall be made for open spaces.	0.80 painting (over)	(for all over)
10	Trellis (of JAFFRI) work one-way or two-way.	Measured flat over all; no deduction shall be made for open spaces; supporting numbers not be measured separately.	2.00 painting (over)	(for all over)
11	Guard bars, balustrades, gates gratings, grills, expanded metal and railings.	Measured flat over all; no deduction shall be made for open spaces; supporting numbers not be measured separately.	1.00 painting (over)	(for all over)
12	Gates and open palisade fencing, including standards, bruces, rails, stays etc.	- do - (see note)	1.00 painting (over)	(for all over)
13	Carved or enriched work.	Measured Flat	2.00	(for each side)
14	Steel roller shutters	Measured flat (size of openings) overall, jamb guides, bottom rails and locking arrangement, etc shall be included in the item (top cover shall be measured separately).	1.10	(for each side)
15	Plain sheet steel doors and windows	Measured flat (note girthed) including frame, edges, etc.	1.10	(for each side)
16	Fully glazed or gauzed steel doors and windows.	Measured flat (note girthed) including frame, edges, etc.	0.50	(for each side)
17	Partly Panelled and partly glazed or gauzed steel doors.	Measured flat (note girthed) including frame, edges, etc.	0.80	(for each side)
18	Collapsible gate	Measured flat Isize of opening)	1.50 painting (over)	(for all over)
19	R.C.C. Jallies	Measured flat	1.25	(for each side)

Note : The height shall be taken from the bottom of the lowest rail, if the palisades do not go below it (or from the lower end of palisades, if they project below the lowest rail) up to the top of palisades, but not up to the top of the standards, if they are higher than the palisades. Similarly for gates, depth of roller shall not be considered while measuring the height.

Where doors, windows, etc. are of composite types other than those included in this table, different portions shall be measured separately with their appropriate coefficients, centre line of common rail being taken as the dividing line between the two portions.

Measurement of painting of doors, windows, collapsible gates, rolling shutters, etc. as given in this table shall be deemed to include painting, if required, of all iron fittings in the same shade.

When two faces of a door, windows, etc. are to be treated with different specified finishes, measurable under separate items, edges of frames and shutters shall be treated with the one or the other type of finish and measurement thereof shall be deemed to be included in the measurement of the face treated with that finish.

In case where shutters are fixed on both faces of a frame, measurement for the door frame and shutter on one face shall be taken in the manner already described, while the additional shutter on the other face shall be measured exclusive of the frame.

Whether shutter is provided with clearance exceeding 15cm. at top and / or at bottom, such openings shall be deducted from the overall measurement and relevant coefficients applied.

Notes:

1. All other materials not specified shall be got approved by the BRBNMPL prior to supply/installation. The brand name of the item proposed to be supplied/installed shall be mentioned by the tenderer.
2. **Contractor must take pre-measurement at site and execution shall be carried out accordingly.**
3. **Mode of Measurements:** Mode of measurements for all items of work shall be as per IS 1200 – Method of Measurement for Building and Civil Engineering Work.

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

## **SECTION VIII: QUALITY CONTROL REQUIREMENTS**

*[Architect/Bidders shall fill the following format and submit along with bid]*

1. It is confirmed that I/We shall carry out the works as per Technical specification and tender conditions. Necessary warranty and test certificates for desired materials shall be submitted along with bills.
2. We also confirm that qualified civil Engineer shall be posted for supervision of the job.
3. I/We also confirm that all design, drawing and construction work shall be ensured to be as per relevant IS.
4. Price BID has been submitted as per given format (*Section XI: Price Schedule Bid*) in separate sealed envelope.
5. Payment terms are accepted as per tender conditions.
6. It is also confirmed that our firm is not black listed /debarred from tendering process from BRBNMPL or any PSU/Govt. departments.

Date:

Place:

For and on behalf of

[Signature with Name & date]

Company Seal

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**



## **SECTION IX: QUALIFICATION/ ELIGIBILITY CRITERIA**

### **Part-I: Technical:**

- 1. Work Experience:** The Bidder should have experience in similar nature of works. Also the bidder should be currently in business and in sound financial condition. **Similar nature of works means “Construction of Buildings and other Civil Works.” Sub-Contracted works will not be considered. Bidder should have work experience as below:**

Three similarly completed works each costing not less than the amount of value of 40% of estimated value (**i.e., Rs. 22.40 lakh**) in the last 7 years up to 30/11/2020.

**OR**

Two similarly completed works each costing not less than the amount of value of 50% of estimated value (**i.e., Rs. 28.00 lakh**) in the last 7 years up to 30/11/2020.

**OR**

One similarly completed work each costing not less than the amount of value of 80% of estimated value (**i.e., Rs. 44.80 lakh**) in the last 7 years up to 30/11/2020.

Work Order and corresponding Work Completion certificate indicating Name of works, Work order No. & date, work order Value, actual value of work completed and the time period for the completion of the work (scheduled and actual) duly attested copies for each of the works should be submitted along-with the Tender Part – I.

### **2. Financial Standing:**

- i. Audited Financial Reports (Trading and Profit & Loss Account, Balance Sheet and Schedule of Asset & Liabilities) for previous THREE years i.e. for the Financial Year 2016-17, 2017-18 and 2018-19 ending on March 2017, March 2018 and March 2019.
- ii. Self –certified statement (Annexure-A) of their turnover, net worth and profit & loss for previous THREE years i.e. for the Financial Year 2016-17, 2017-18 and 2018-19 ending on March 2017, March 2018 and March 2019.
- iii. Average annual financial turnover of firm during the last 3 years ending 31/03/2019 should be **30% (i.e., Rs. 16.80 lakhs)** of estimated value or more.
- iv. The bidder should not have suffered financial loss for more than one year during the last 3 years ending 31/03/2019.
- v. The Net Worth of the firm should not be negative and should not have eroded by more than 30% year-on-year in the last 3 years ending 31/03/2019.

### **3. The bidder should never have been blacklisted from BRBNMPL and Bidder not rated for unsatisfactory performance by BRBNMPL during last three years.**

### **4. Documentary Evidence:**

- a. Proof of Registration of PAN, GST, ESIC & EPF.
- b. An affidavit on stamp paper of Rs. 100/- (Non – Judicial) stating ***“In case any ambiguity is noticed in the Documents (list out documents) submitted at any stage, we will be entirely responsible and liable for any action as deemed fit under the Law”.***
- c. Power of Attorney / Authorization with the seal of the company in the name of the person signing the Tender Documents. Proprietorship firm need not submit authorization, if proprietor himself signed on all documents.
- d. Status of Firm (Partner/proprietor / limited etc.) with proof. In case of Proprietorship firms, copy of Memorandum or Affidavit in this regard to be submitted.
- e. Undertaking regarding blacklisting by BRBNMPL or any Govt./semi Govt body and details of Civil and criminal cases and other legal dispute proceedings including arbitration proceedings, if any, pending against the tenderer or where the tenderer is involved and also closed cases during the last five years. Also, our firm had not been rated for unsatisfactory performance by BRBNMPL during last three years.
- f. Duly filled in & authenticated NEFT Form for credit clearing towards return of EMD and Payment as per Annexure-A. Firms working in BRBNMPL, Mysore or NEFT submitted earlier, need not to submit again.

**Important:**

1. Please note that the contractors who have worked earlier with BRBNMPL, Mysuru and their performance was not found satisfactory for any of the jobs awarded to them, their tenders shall not be opened during technical bid stage and their offers shall be considered as invalid and shall be rejected.
2. **Submission of tender shall be as under (Pl refer page-07).**
  - a. **Envelope – 1 containing Part-I Technical Bid**
  - b. **Envelope – 2 containing Part-II Commercial (Price) Bid**

Both the sealed envelopes should be put in a **Third sealed cover** super scribed with the name of the work and tender no. with due date of opening as mentioned in the tender form.
3. Tenders received after the below mentioned time and date, whether sent by post or delivered in person are liable to be rejected.
4. In case of any clarifications, **bidders may contact Ink Manufacturing Unit on any working days between 08:00 Hrs. – 17.00 Hrs.**
5. **MSME firms will get relaxation as per clause No. 12 at page No. -7.**

Tender once submitted will be treated as property of BRBNMPL and Tenderer will not be allowed to make any change / modification in Tender or withdrawal of Tender. Claim for ignorance of Site condition will not be considered.

**Full Tender Document along with enclosures shall be neatly numbered (Page No.) and duly signed with seal by the Authorized Person of the firm.**

**Part-II Commercial (Price) Bid:**

The Commercial bid of the bidders who have qualified in Part-I only will be opened. The bid should contain the following: - Proforma of Price Bid (Section – XI) only.

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION X: TENDER FORM**

**Tender for Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.**

Date .....

To  
The General Manager  
BRBNMPL,  
Note Mudran Nagar,  
Mysuru – 570 003

Ref: Your Tender Document No. 088/MYS/IMU-23/2020-21 dated 19/12/2020

We, the undersigned have examined the above mentioned tender enquiry document, including amendment No. -----, dated \_\_\_\_\_ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver **Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru**, in conformity with your above referred document for the sum of **as mentioned in Financial Bid**, attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 6, read with modification, if any, in Section V — "Special Conditions of Contract", for due performance of the contract.

We agree to keep our tender valid for acceptance for a period up to \_\_\_\_\_ as required in the GIT clause 19, read with modification, if any in Section-III — "Special Instructions to Tenderers" or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender upto the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

Dated this \_\_\_\_\_ day of \_\_\_\_\_  
For & on behalf of

.....  
(Signature with date)

.....  
(Name and designation)  
Duly authorized to sign tender for and on behalf of  
.....

**(To be filled, signed & stamped and submitted along with Price Bid Part -I)**

**SECTION XI: PRICE SCHEDULE -PART-II BID**

**Proforma of Price Bid cum Bill of Quantities (BOQ) for the Tender for Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.**

From:

.....  
.....  
.....

To:

The General Manager,  
BRBNMPL,  
MYSURU – 570 003.

Dear Sir,

**Sub: Tender Notice for Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.**

**Ref:** Your Tender Enquiry No: [TENDER NO: 088/MYS/IMU-23/2020-21](#)

Item No	Description of Works	Unit	Quantity	Rate in Rs.	Amount in Rs.
	<b>SECTION-A (CIVIL WORKS)</b>				
1.	Earth work excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc. either in pits or trenches 1.5m and above in width in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from the edges of excavation with lease up to 50m including breaking of clods including cost of labour & HOM of machineries, as per drawing and technical specification.	Cum	5.00		
2	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.53cum machine mixed, concrete laid in	Cum	3.00		

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

	layers not exceeding 15cms.thick, well compacted, in foundation, plinth and sills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.				
3	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates@0.460 cum, with super plasticisers @ 3 litres confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cm thick, vibrated for all works in foundation for footings, plinths beam etc., including cost of all materials, labour, HOM machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	1.00		
4	Providing and laying in position reinforced cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates@0.46 cum, with super plasticisers @ 3 litres confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cm thick, vibrated for all works in ground floor level for roof slabs, staircase, tie beams, columns, etc., including cost of all materials, labour, HOM machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	1.00		
4a	Same as above for First Floor	Cum	15.00		
5	Providing and removing, centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, columns, roof slab, tie beam, plinth beam, stair case including cost of all				

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	materials, labour, complete as per specifications.				
a.	For Plinth Beam	Sqm	4.00		
b.	For First Floor Column	Sqm	25.00		
c.	For Tie Beam	Sqm	4.00		
d.	For First Floor Tie Beam	Sqm	53.00		
e.	For First Floor Roof Slab	Sqm	70.00		
6	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. TMT Bars Fe 550	Qtl.	0.50		
6.a	Same as above for First Floor	Qtl	16.50		
7	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cm. in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m and lift upto 1.5 m including cost of all labour complete as per specifications.	Cum	1.00		
8	Earth brought from outside for filling in layers not exceeding 20 cm in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of labour etc. complete as per standard specification.	Cum	20.00		
9.a.i	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm with having block density not less than 1800kg/m <sup>3</sup> having a	Sqm	55.00		

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	minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.				
9.a.ii	Same as above for First Floor	Sqm	110.00		
9.b.i	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm with having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.	Sqm	5.00		
9.b.ii	Same as above for First Floor	Sqm	25.00		
9.c.i	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm with having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.	Sqm	10.00		
9.c.ii	Same as above for First Floor	Sqm	125.00		
10	Providing and constructing granite/trap/basalt size stone masonry in foundations with cement mortar 1:6, stone	Cum	2.00		

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	hammered dressed in course not less than 20 cm height, bond stones at 2m apart in each course including cost of materials labour, curing complete as per specifications				
11	Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to <b>inside</b> brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	650.00		
11.a	Same as above for First Floor	Sqm	230.00		
12	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to <b>outside</b> brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	70.00		
12.a	Same as above for First Floor	Sqm	350.00		
13	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing complete as per specifications.	Sqm	165.00		
13.a	Same as above for First Floor	Sqm	55.00		
14	Providing floating coat of cement to plastering and finishing smooth, including cost of materials, labour, curing complete as per specifications.	Sqm	215.00		
14.a	Same as above for First Floor	Sqm	140.00		
15	Providing and applying one coat distemper primer of approved brand on wall surface after thoroughly brooming the surface to	Sqm	625.00		



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	remove all dirt, dust, mortar drops and other foreign matter including preparing the surface, even and sand paper smooth, cost of materials, labour, complete as per specifications.				
15.a	Same as above for First Floor	Sqm	625.00		
16	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification.	Sqm	1150.00		
16.a	Same as above for First Floor	Sqm	625.00		
17	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	1200.00		
17.a	Same as above for First Floor	Sqm	280.00		
18	Providing and finishing external walls in two coats with weather guard waterproof paint of approved brand(ultima of Asian Paints or Equivalent) ) and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	350.00		
18.a	Same as above for First Floor	Sqm	300.00		
19	Providing and applying enamel metal paint two coats (including	sqm	105.00		

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	priming coat) over new steel/ wood or other metal/ wood surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.				
19.a	Same as above for First Floor	Sqm	55.00		
20.	Flooring with vitrified tiles (Size-60cmx60 cm, minimum basic value should be @ Rs. 800/m <sup>2</sup> ) over a bed of C.M. 1:6, (1 Cement : 6 course sand) 20mm thick and cement grouted and fixing the tiles on it with a minimum joint space using joint filler of approved quality and colour etc. complete.	Sqm	300.00		
20.a	Same as above for First Floor	Sqm	50.00		
21	Providing Ceramic tiles of approved make, shade and size for toilet flooring, laid on a bed of 20mm thick cement mortar 1:4 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. Ceramic Tiles of size 30x30 cm 6mm thick.(basic price Rs. 550/m <sup>2</sup> )	Sqm	60.00		
21.a	Same as above for First Floor	Sqm	10.00		
22	Dadoing walls with best quality premium coloured/white tile of size-20cmx30cm,or nearest size minimum basic value should be @ Rs.550 /m <sup>2</sup> ) over a bed of cement mortar 1:3, 9 mm thick add necessary cement grout and fixing the tiles to correct line and levels etc complete.	Sqm	165.00		
22.a	Same as above for First Floor	Sqm	50.00		
23	Supplying and Fixing granite slabs 18 mm thick with a base price of Rs. 2200/m <sup>2</sup> over a bed of CM 1:4, 20 mm thick and cement grouted and fixing the slab after removing	Sqm	21.00		

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	the existing plaster finish including rounding and polishing the edge.				
24	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and grouting of Honey comb, voids, cracks / construction joints with cement slurry (1 kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @ 0.50kg/sqm on the whole surface, including all labour charges tools and equipment, all complete as per the specification.	Sqm	470.00		
24.a	Same as above for First Floor	Sqm	380.00		
25	Providing and fixing Stainless steel 304 grade for staircase railing, balconies, ramps, with hand rail 50mm dia 16 gauge hollow pipe welded to vertical hollow 50mm dia pipe of 16 gauge, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.	Sqm	11.00		

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26	<p>Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45mm thickness 3.18mm section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred corners grinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories such as aluminium handle for full width or length, tower bolts, lock, pivots; P.V.C. or rubber gasket with 5.5mm thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides, beams and flooring in bottom, including cutting, chiselling and making good with cement mortar to match the surface; all the frames thoroughly cleaned free from rust, scale, or dirt including cost of</p>	Sqm	8.00		

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	materials, fixtures, labour and HOM of machinery, complete as per specifications using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.				
26a	Same as above for First Floor.	Sqm	13.00		
27	Supplying and fixing 30mm thick PUF filled FRP door shutters on PVC solid frames of size 50x47mm with 5 mm thick including square including 1 no. aldrop, tower bolt, 4 nos 75 mm brass butt hinges with screws etc complete.	Nos.	12.00		
27a	Same as above for First Floor.	Sqm	10.00		
28	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695kg/m; sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417kg/m; shutter outer side 40mmx18mm, 1.25mm, thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc., and providing and fixing 5.5mm, thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/sills as the case may be with necessary steel screws, rawl plugs,	Sqm	10.00		

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	or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pre-treated for removal of any Specification using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.				
28.a	Same as above for First Floor	Sqm	12.00		
29	Providing and fixing M.S. grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer cost of materials, fixtures, labour and HOM of machinery, complete as per specifications.	Kg	514.00		
29.a	Same as above for First Floor	Kgs	180.00		
30	Supplying and fixing flat iron holdfast of size 350x50x6mm for doors with necessary screws.	Nos.	8.00		
30.a	Same as above for First Floor	Nos.	15.00		
31	Providing and fixing in position collapsible steel shutters with single or double leaf with vertical channel 20mm x 10mm x 2 mm braced with flat iron diagonals 20mm x 5mm size, with top and bottom rails of T iron sections of 40 x 40 x 6 mm with 38 mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5 cm openings at 10cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery, complete as per specifications. size of gate 2.4m x 1.4 m.	Sqm	15.00		

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32	Dismantling the existing brick masonry in cement mortar including plastering and removing the debris and disposing the materials away from the site.	Cum	5.00		
33	Dismantling of flushing cistern of all types (C.I., PVC, vitreous china) including stacking of useful materials near the site and disposal of unserviceable materials and disposal the waste materials away from the site.	Nos.	2.00		
34	Dismantling and removing the existing wash basin without any damage and stacking the materials for reuse.	Nos.	2.00		
35	Dismantling and removing the existing doors, windows (steel or wood) with or without ventilators including removal of shutters, hinges, holdfast and all other fittings and disposal the waste materials away from the site	Nos.	2.00		
36	Providing and laying cement concrete of 1:2:4 (1 cement, 2 sand, 4 graded stone) with 6 mm nominal size aggregate for providing required slope in the roof, including watering, curing, etc complete.	Cum	17.00		
37	Supplying and Fixing granite slabs 18 mm thick with a base price of Rs 2200/m <sup>2</sup> over a bed of CM 1:4, 20 mm thick and cement grouted and fixing the slab after removing the existing plaster finish including rounding and polishing the edge.	Sqm	4.00		
38	Supplying and fixing wall mounded concealed type (basic price of tank and closet Rs. 20000/No) European W.C. pan parryware or equivalent make with flush valve P-trap, angular cock including all necessary fitting etc complete.	Nos.	10.00		
39	Providing and fixing white vitreous china clay Water Closet Orissa pattern of size 580X440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C.	Nos.	1.00		

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	flushing cistern (all are approved make) with fittings, CI/MS brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required including cost of materials, labour complete as per specifications.				
40	Supplying and fixing counter top wash basin (parryware or equivalent make, basic price of wash basin Rs. 9000/No) rates including cost of pillar cock quarter turn, bottle trap are of cap tree or jagur, waste coupling, waste pipe, angle cock with all necessary fittings etc. complete.	Nos.	18.00		
41	Supplying and fixing urinals with sensor (parryware or equivalent make, basic price of Rs.12900/No) flushing etc such as flushing valve, C.P tube, spreader angle cock, urinals waste coupling etc complete.	Nos.	6.00		
42	Supply & fixing Urinal division plate (parryware or equivalent make,	Nos.	3.00		
43	Supplying and fixing CP health faucet 20 mm jaquar or crab tree including angle valve (basic price of health faucet Rs.1350/No).	Nos.	10.00		
44	Supplying and fixing 150mm SW gully trap including fixing in position.	Nos.	10.00		
45	Supplying and fixing 150 mm stainless steel grating	Nos.	10.00		
46	Supplying and fixing Two in One tap jaquar or crab tree (basic price of Rs.1370/No)	Nos.	26.00		
47	Supplying and fixing 24" towel rod (basic price of Rs.1750/No) of approved quality.	Nos.	12.00		
48	Supplying and fixing soap dish of approved quality including fixing in position. ( basic price of Rs.1407/No)	Nos.	12.00		



Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

49	Providing & fixing 750mm x450mmx 4mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixed to wooden plug with C.P. brass screws and washers.	Nos.	18.00		
50	Providing and fixing 110 mm PVC pipe to correct line and levels from inspection chamber to the waste water line.	RM	35.00		
51	Supply and fixing 110 mm dia PVC pipe 6 gauge of approved quality confirming to ISI mark with special such as tees bends elbows check nuts etc. including cutting masonry or concrete floors sunshade etc where ever necessary for taking connection fixing the pipe to walls with iron clamps and screws to teak wood plugs imbedded in cement mortar including sparer sockets scaffolding wherever necessary etc complete.	RM	35.00		
52	Supply and fixing 75 mm dia PVC pipe using 6 gauge of approved quality confirming to ISI mark for waste water line including cutting masonry or concrete floors sunshade etc where ever necessary for taking connection fixing the pipe to walls with iron clamps and screws to teak wood plugs imbedded in cement mortar including spare sockets scaffolding where ever necessary etc complete.	RM	50.00		
53	Supplying laying and jointing 50mm nominal dia. P.V.C. 15 gauge of approved quality and ISI mark pipe and specials such as tees, bends, elbows, check nuts etc. with clamps including cutting and making good the walls floors etc. complete.	RM	30.00		
54	Supplying laying and jointing 32mm nominal dia. P.V.C. 15 gauge of approved quality and ISI	RM	25.00		

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

	mark pipe and specials such as tees, bends, elbows, check nuts etc. with clamps including cutting and making good the walls floors etc. complete for water line pipe.				
55	Supplying laying and jointing 20mm nominal dia. P.V.C. pipe 15 gauge of approved quality and ISI marks and specials such as tees, bends, elbows, check nuts etc. with clamps including cutting and making good the walls floors etc. complete for urinals & closet rooms.	RM	25.00		
56	Supply and fixing 160mm dia PVC pipe 6 gauge of approved quality confirming to ISI mark with special such as tees bends elbows check nuts etc. including cutting masonry or concrete floors sunshade etc. where ever necessary for taking connection fixing the pipe to walls with iron clamps and screws to teak wood plugs imbedded in cement mortar including sparer sockets scaffolding where ever necessary etc complete.	RM	20.00		
57	Constructing manhole of size 60x60x75 cm inside with reinforced cement concrete M20, 10 cm thick with nominal reinforcement for side walls and bottom and finished with cement mortar 1:4 12 mm thick including a neat cement finishing coat and the top with CI manhole cover 60x60 cm as per standard design.	Nos.	2.00		
58	Providing & placing on terrace, polythylene water storage tanks of 1000 litre capacity as per IS12701:1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and ov flow pipes, including cost of materials, labour, transport charges, HOM and testing complete as per specifications.	Nos.	3.00		

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

	<b>Total Civil works</b>				
	<b>GST @.....%</b>				
	<b>Total amount for Civil Works including GST (A)</b>				
	<b><u>SECTION -B (Electrical Works)</u></b>				
59	<b>DISTRIBUTION BOARDS PDB</b> Supply erection testing and commissioning of wall mounted type double door dust and vermined proof 4 way TPN MCCB VDB with cable termination box concealed on wall comprising the following. (All MCB'S are 10 KA) INCOMING SIDE - 80 A TPN MCCB with O/C, E/F & SHUNT TRIP, 80 A TPN Busbar as per ISS OUT GOING, 6 - 32 A MCB - 12 nos	Nos	1.00		
60	<b>CABLE LAYING AND TERMINATIONS.</b> Supply laying and dressing of 1.1 KV grade PVC insulated armoured UG cable concealed or on wall /ceiling /trench/cable rack, with clamps etc including back filling of trenches if necessary. 4 core 10 sq mm AYFY (Aluminium conductor) for PDB	Mtr	60.00		
61	End termination of the above cables using single compression type cable glands and heavy duty tinned copper crimping type cable sockets including cable earthing. 4core 10 /16 sq.mm al cable	No.	2.00		
62	Supply and laying following earth strips / wires No 10 SWG copper conductor (2 runs along with cables to PDBs) from earth bus .	Mtr	80.00		
63	Supply all materials and providing one earth bench 25 x 3mm of 30cms long with necessary holes for earthing connections.	No.	1.00		

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

64	<b>WIRING FOR LIGHT, FAN, PLUG SOCKETS etc.</b>				
64.1	Supply all materials and wiring through wall floor etc, concealed/surface as per colour code with 1.5sq mm P V C insulated FRLS stranded copper wire for the points and 1.5 sq mm P.V.C. insulated green colour FRLS stranded copper wire as continuous earth for points, with independent earth wire for each circuit, through ISI grade 20 / 25 mm PVC conduit,(Medium Grade) including cost of circuit wiring with all accessories as per IS 9537 part II and installation of factory made MS boxes, 2 plate model modular switches and three plate ceiling rose / connectors etc of approved make for light/ exhaust fan/ calling bell etc .Number of cables in conduit should be limited to the IS standards and as per the conditions laid down in the tender DB etc. PVC bush to be provided in the conduits in switch boxes / DB to protect the insulation. The cost includes chipping the floor/wall etc and re-plastering etc, if required. The average length of light/calling bell point from switch board.	No.	17.00		
64.2	Same as item no 4.01 above but for 2 lights controlled by one switch	No	12.00		
64.5	Supply and installation of 6A 3 pin plug with switch in combined position in the existing lighting switch boards switch boards with all accessories.	No	5.00		
64.6	Supply all materials and installation of 2 plate modular 6 A 3 pin plug with switch and indicator at separator location. Including the cost of chipping re-plastering etc if required(raw power)	No	3.00		
64.8	Supply all materials and wiring through wall / floor etc.	Mtr	267.00		

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

	recessed/surface as per colour code with 2 runs of 1.1 KV grade 2.5 sqm PVC insulated FRLS copper wire for phase and neutral and 1.5sq.mm green colour for earth through ISI marked 20 mm PVC conduit with all accessories for 16/6 A (5pin )power plug socket. . Including the cost of chipping re-plastering etc if required.The rate includes the cost of complete wiring from DB to the point.				
64.9	Supply all materials and providing 16A 3pin plug top connected with 3 core 2.5sqmm flexible pvc insulated cu cable of length 2m for providing input supply to locker room switch board from the outside power socket.	No	1.00		
65	SUPPLY AND INSTALLATION OF LIGHT FITTINGS, CEILING FAN, EXHAUST FAN ETC. Supply installation giving electrical connection testing and commissioning of the following light fittings including the cost of materials for fitting connection through 20 mm flexible metal conduit. The light fittings should be the approved make and approved model as per the list attached. The scope includes the cost of control gears, fixing frames on ceiling and accessories complete. The warrantee period and date of all fittings should be neatly written with enamel paint on each fitting as per the direction of officer in charge. The warrantee certificate along with details should be handed over to bank on completion of work.				
65.1.	Supply and installation LED down Lights with pressure die cast body with recess mounted fittings with fixing frame and All accessories and driver etc . 10/12W, Recess Mounted (1000 Lumens and with 5years warrantee.) Make, Philips,				

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

	LT, Osram( The model should conform to the specification)				
65.1.a	Supply	No	13.00		
65.1.b	Installation	No	13.00		
65.2	LED Batten 21 w 4ft - high quality diffuser suitable for wall mounting with all accessories. Philips TMC 501P2XT22WP3242				
65.2.a	Supply	No	14.00		
65.2.b	Installation	No	14.00		
	Supply and installation of 300mm Continuous Duty exhaust fan 900rpm for toilet with 2 year warrantee.				
65.3.a	Supply	No	15.00		
65.3.b	Installation	No	15.00		
	Supply and installation of 1200mm ceiling fan with double ball bearing with 5star rating with 5 year warrantee				
65.4.a	Supply	No	4.00		
65.4.b	Installation	No	4.00		
66	Supply all materials and providing identification on panels, DB's, DB outgoing MCB's, Switch boards, UPS, Lights, fans arrangements etc. using paint & stencils as per direction of Authorities including supply and providing of framed laminated schematic diagram of the installation.	LS	LS		
67	Dismantling and Removal of existing light fittings, fans, DBs, switch boards and its wirings etc all these wirings and fittings to be removed and fitting the same to the ground floor as per the direction of the authorities.	LS	LS		
	<b>Total Electrical Works</b>				

Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

	<b>i) GST for supply @.....%</b>	
	<b>ii) GST for installation @.....%</b>	
	<b>Total amount for Electrical Works including GST (B)</b>	
<b>Total Value for Civil and Electrical Works (A+B)</b>		

Notes:

- The tender shall be finalised on 'L1-Lowest Bidder' Basis.**
- The rates shall remain valid for a period of one year. Repeat order may be placed at the same rates and terms & Conditions with mutual consent for any additional work.*
- The quoted rates are inclusive of all. (GST shall be paid at par as per prevailing rules).*
- No escalation shall be entertained over the quoted rates during the tenure of the contract.*
- The rates are quoted with all awareness of the site conditions and after going through the tender documents in details.*
- Price with condition(s) shall be liable for rejection.*
- Price should be quoted exactly as per the format.*
- Conditional discount/ rebate etc. shall not be considered. In case, discount is offered that should be adjusted in the price and net price should be quoted.*
- BIDS submitted not in accordance with the above guidelines & with counter conditions will be liable for rejection. BRBNMPL will examine the materiality/Significance of the deviation /variation if any and shall take its own decision to accept or reject the tender. BRBNMPL's decision on acceptance /rejection shall be final without assigning any reason thereof. BIDS once submitted will not be allowed for revision without the approval of BRBNMPL. Any withdrawal of BID after submission of offer will result in forfeiture of EMD and blacklisting of vendor.*

We confirm that we will abide by all the tender terms& conditions of tender, scope of work and we do not have any counter conditions.

Thanking you,  
Yours faithfully,

Seal

(.....)  
Name & Signature with date

**(To be filled, signed & stamped and submitted as Price Bid Part -II)**

**SECTION XII: QUESTIONNAIRE /CHECKLIST**

The Tenderer should furnish specific answers to all the questions/ issues mentioned below. In case a question / issue do not apply to a tenderer, the same should be answered with the remark "not applicable".

Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

In case a tenderer furnishes a wrong or evasive answer against any of the under mentioned question / issues, its tender will be liable to be ignored.

Sl. No.	Query	Bidder's Response
1	Brief description of goods and services offered	<b>Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru.</b>
2	Name and Address of the Firm	
3	Nature of the Firm (Proprietorship/Partnership/Ltd. Company/Co-op. Society)	
4	Offer is valid for acceptance up to	<b>120 days from the date of opening of the tender, which can be further extended for another 30 days at the discretion of BRBNMPL.</b>
5	Your Permanent Income Tax A/C No. as allotted by the Income Tax Authority of Government of India <b>(Please attach certified copy of your PAN Card).</b>	
6	Your GSTIN <b>(Copy of registration to be enclosed)</b>	
7	<b>Status: Validity of Statutory Registrations</b>	
a)	Are you currently registered with the Central Purchase Organization, and/or as a Micro and Small Enterprise (MSE) as defined in MSEs Order 2012 issued by Ministry of Micro, Small and Medium Enterprises (MSME), as recognised by Department for Promotion of Industry and Internal Trade (DPIIT) and/or the present BRBNMPL and/or the Directorate of Industries of the concerned State Government for the	



Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

Sl. No.	Query	Bidder's Response
	goods quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit imposed on your registration.	
b)	Are you currently registered under the Indian Companies Act, 2013 or any other similar Act? <b>(Please attach certified copy(s) of your registration status etc. in case your answer(s) to above queries is in affirmative.)</b>	
8	Please indicate Name & Full address of your Banker(s)	
9	Please state whether business dealings with you currently stand suspended/ banned by any Ministry / Dept. of Government of India or by any State Govt.	
10	Your ESIC Regn. No. <b>(Copy of registration to be enclosed)</b>	
11	Your EPF Regn. No. <b>(Copy of registration to be enclosed)</b>	
12	Tender Fees of Rs. 1500.00 <b>(Copy of supporting document for claiming exemption)</b>	YES / NO / Exempted
13	EMD of Rs. 74,000.00 <b>(Copy of supporting document for claiming exemption)</b>	YES / NO / Exempted
14	Corrigendum, if any	YES / NO / NA
15	Affidavit on Non-Judicial Stamp Paper of Rs. 100/- regarding ambiguity in the documents.	YES / NO
16	Duly filled in Questionnaire (Section-XII)	YES / NO
17	Duly filled in Tender Form (Section-X)	YES / NO
18	Self –certified statement of Turnover, Net Worth and Profit & Loss for last three year as per Annexure-A	YES / NO
19	Duly filled in NEFT Mandate as per Annexure-B (working agency not required)	YES / NO
20	Confidentiality statement and Undertaking regarding Black Listing and details of criminal cases and other legal dispute proceedings, if any as per Annexure-C.	YES / NO
21	Authorization for signing tender document as per Annexure-D. Proprietorship firm not required if signed by the Proprietor.	YES / NO

**Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore**

<b>Sl. No.</b>	<b>Query</b>	<b>Bidder's Response</b>
20	Declaration & undertaking by Micro & Small scale Enterprises Companies as per Annexure-E.	YES / NO / NA
22	Audited Financial Reports for last three year	YES / NO
23	Copy of credential (work experience) as per eligibility criteria	YES / NO
24	Seal and signature on all tender document	YES / NO
25	Whether Technical Bid & Financial Bid is kept in two separate sealed cover with clear superscription on the envelope and these two covers are put in a big cover marking Tender details? <b>(Pl refer Page No. 7)</b>	YES / NO

.....

(Signature with date)

(Full name, designation & address of the person duly authorized sign on behalf of the tenderer)

For and on behalf of

.....

(Name, address and stamp of the tendering firm)

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION XV: BANK GUARANTEE FORM FOR PERFORMANCE SECURITY**  
**(PM/SBD/005)**

.....  
(Insert Bank's Name, and Address of Issuing Branch or Office)

Beneficiary

**(BHARATIYA RESERVE BANK NOTE MUDRAN PRIVATE LIMITED,  
A/c No.: 10562408040, IFSC Code: SBIN0003130, Type of A/c: Cash Credit,  
Address of the Bank: State Bank of India, PB NO.204, Mothikhana Bldg,  
New Sayyaji Rao Road, Mysuru-570024,  
Phone No.: 0821-2437650 / 605)**

Performance Guarantee No. \_\_\_\_\_

Date: -----

WHEREAS ..... (name and address of the Contractor) (hereinafter called "the Contractor") has undertaken, in pursuance of contract no ..... dated ..... to execute **Completion of balance works for construction of Ink Vessel washing, Packing and Toilet Block for Ink Manufacturing Unit at BRBNMPL, Mysuru** (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the Contractor shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract:

AND WHEREAS we have agreed to give the Contractor such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Contractor, up to a total of \_\_\_\_\_ (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding me said debt from the Contractor before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

We undertake to pay BRBNMPL up to the above amount upon receipt of its first written demand, without BRBNMPL having to substantiate its demand.

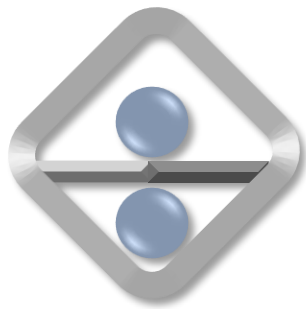
This guarantee will remain in force for a period of sixty days after the after the completion of all contractual obligations and any demand in respect thereof should reach the Bank not later than the above date.

.....  
(Signature of the authorized officer of the Bank)

.....  
Name and designation of the officer

(Seal, name & address of the Bank and address of the Branch)

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**



Tender for Completion of Toilet Block at IMU, BRBNMPL, Mysore

**SECTION XVI: CONTRACT FORM**

**(PM/SBD/006)**

**BHARATIYA RESERVE BANK NOTE MUDRAN PRIVATE LIMITED**

**(Wholly owned Subsidiary of Reserve Bank of India)**

**Note Mudran Nagar, Mysuru 570003**

**Phone: 0821-2582905, 2582915, 2582925; FAX: 0821- 2582099**

**Website: [www.brbnmpl.co.in](http://www.brbnmpl.co.in) ; Email: [mysorepress@brbnmpl.co.in](mailto:mysorepress@brbnmpl.co.in)**

Contract No ..... dated .....

This is in continuation to this office' Notification of Award No. .... dated .....

1. Name & address of the Contractor: .....
2. BRBNMPL's Tender document No. .... dated ..... and subsequent Amendment No. .... dated ..... (if any), issued by BRBNMPL
3. Contractor's Tender No. .... dated ..... and subsequent communication(s) No..... dated ..... (If any), exchanged between the contractor and BRBNMPL in connection with this tender
4. In addition to this Contract Form, the following documents etc., which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as part of this contract:
  - i. General Conditions of Contract;
  - ii. Special Conditions of Contract;
  - iii. List of Requirements;
  - iv. Technical Specifications;
  - v. Quality Control Requirements;
  - vi. Tender Form furnished by the supplier;
  - vii. Price Schedule(s) furnished by the supplier in its tender;
  - viii. Manufacturers' Authorisation Form (if applicable for this tender);
  - ix. BRBNMPL's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under Section - V - 'General Conditions of Contract' of BRBNMPL's Tender document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

(i) Brief particulars of the goods and services which shall be supplied / provided by the supplier are as under:

Schedule No.	Brief description of goods / services	Accounting unit	Quantity to be supplied	Unit Price (In Rs.)	Total price

Any other additional services (if applicable) and cost thereof:

Total value (in figure) (In words)

(ii) Delivery schedule

(iii) Details of Performance Security

(iv) Quality Control

- a. Mode(s), stage(s) and place(s) of conducting inspections and tests.
- b. Designation and address of BRBNMPL's inspecting officer

(v) Destination and despatch instructions

(vi) Consignee, including port consignee, if any

(vii) Warranty clause

(viii) Payment terms

(ix) Paying authority

.....

(Signature, name and address of BRBNMPL's authorized official)

For and on behalf of

Received and accepted this contract

(Signature, name and address of the supplier's executive duly authorized to sign on behalf of the supplier)

For and on behalf of

(Name and address of the supplier)

.....

(Seal of the supplier)

Date:

Place:

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION XVII: LETTER OF AUTHORITY FOR ATTENDING A BID OPENING**

(Refer to clause 24.2 of GIT)

(PM/SBD/007)

The General Manager(OSD)  
BRBNMPL, Mysore-570003

Subject: Authorization for attending bid opening on \_\_\_\_\_ (date) in the  
Tender of \_\_\_\_\_ against tender enquiry  
.....

Following persons are hereby authorized to attend the bid opening for the tender mentioned above on behalf of \_\_\_\_\_ (Bidder) in order of preference given below:

Order of Preference	Name	Specimen Signatures
I.		
II.		
Alternate Representative		
Signature of Bidder or Officer authorized to sign the bid Documents on behalf of the bidder		

Note:

1. Maximum of two representatives will be permitted to attend bid opening. In cases where it is restricted to one, first preference will be allowed. Alternate representative will be permitted when regular representatives are not able to attend.
2. Permission for entry to the hall where bids are opened may be refused in case authorization as prescribed above is not produced.

Signature of bidder with date and Seal

Or

Officer authorised to sign the bid documents on behalf of the bidder

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**SECTION XIX: PROFORMA OF BILLS FOR PAYMENT****(PM/SBD/009)**

(Refer Clause 22.6 of GCC)

[Name and Address of the Firm]

PAN :..... CIN : XXXXXXXXXXXX (as per Company law)

[Regd. Office address] (as per Company law)

[Address of place of business under GST]

GSTIN of the respective place of business:.....

Bill No.....

Dated.....

Purchase order No.....

Dated.....

[Name and address of the consignee]

Place of supply: name of the city, name of the state

Sl. No.	Authority for purchase	Description of Stores	HSN/ SAC	Number or quantity	Taxable value	Rate/ Price	Taxable value
Total							

1. Applicable CGST, SGST, IGST and UTGST Amount

2. Freight (if applicable)

3. Packing and Forwarding charges (if applicable)

4. Others (Please specify)

2. PVC Amount (with Calculation sheet enclosed)

6. (-) deduction/Discount

7. Net amount payable (in words Rs.)

Dispatch detail RR No./other proof of dispatch..... Dated..... (enclosed)

Inspection Certificate No..... Dated..... (enclosed)

Income Tax Clearance Certificate No..... Dated..... (enclosed)

GST Registration certificate..... (enclosed)

(If it is already being collected, the same may be ignored)

Place and Date.....

Received Rs. (Rupees).....

I hereby certify that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

Signature and Stamp of Supplier

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**ANNEXURE- A**

**SELF CERTIFIED STATEMENT OF TURNOVER, NET WORTH AND  
PROFIT & LOSS OF THE FIRM**

**(To be submitted on letterhead by the authorised signatory)**

Dear Sir,

Sub: Certificate for turnover and others as per tender conditions.

This                    is                    to                    certify                    that                    M/s.  
\_\_\_\_\_ (Agency Name &  
Address) are in the business of contracts execution for last 03 completed years  
(considered up to 31<sup>st</sup> March 2019 of last financial year). Their performance report as  
required under tender conditions for the last 3 years is as follows.

<b>Years</b>	<b>Annual Turnover</b>	<b>Profit / (- Loss) for the year</b>	<b>Net worth as on year end</b>
F/Y 2016-17			
F/Y 2017-18			
F/Y 2018-19			
<b>Total</b>			

The above information is based on the audited accounts.

Place:

Date:

Seal

Signature of the authorised Signatory

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**



**ANNEXURE - B**  
**NEFT - MANDATE FORM**

(Investor / customer's option to receive payments through Credit Clearing Mechanism)

1	Investor / Customer's Name		
2	Particulars of Bank account		
	A	Name of the Bank	
	B	Name of the branch	
		Address	
		Telephone No	
		Whether Bank branch is NEFT enabled	
	C	Code number of the bank and branch appearing on the MICR Cheque issued by the bank	
	D	Type of the account (SB, Current or Cash Credit)	
	E	Ledger and Ledger Folio number	
	F	Account number (as appearing on the Cheque book)	
	G	RTGS/ IFSC Code No.	
	(In lieu of the bank certificate to be obtained as under, please attach a blank cancelled cheque or photocopy of a cheque or front page of your Savings bank passbook issued by your bank for verification of the above particulars)		
3	Date of effect		

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge the responsibility expected of me as a participant under the scheme.

(.....)  
Signature of the Investor / Customer

Date:

Certified that the particulars furnished above are correct as per our records.

Bank's Stamp

Date:

(.....)

Signature of the authorized official of the Bank

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**ANNEXURE -C**  
**CONFIDENTIALITY STATEMENT**

**(To be submitted on letterhead by the authorised signatory)**

To Whomsoever It May Concern

This is to confirm that we, M/s. \_\_\_\_\_, have not been blacklisted / debarred by BRBNMPL/Government of India/PSU in the past 5 years.

This is to inform that we, M/s. \_\_\_\_\_, had been blacklisted / debarred by \_\_\_\_\_ from   (date)   to   (date)   in the past 5 years. We further confirm that we do not stand blacklisted/debarred as on the date of tender opening.

*[Please strikeout whichever statement is not applicable]*

Dated this \_\_\_\_\_ day of \_\_\_\_\_

.....  
(Authorised Signatory of the bidder firm with date)

Name of Authorised signatory: .....

Designation: .....

Confidentiality Statement

“The information, which is contained in this document will not, in whole or in part be reproduced, transferred to other documents/electronic media or disclosed to others without written consent of BRBNMPL”. We shall also undertake to maintenance secrecy, exclusivity and confidentiality of the high security currency printing environment of BRBNMPL.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

.....  
(Authorised Signatory of the bidder firm with date)

Name of Authorised signatory: .....

Designation: .....

**(Seal)**

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**

**ANNEXURE-D**  
**AUTHORISATION FOR SIGNING TENDER DOCUMENT**

The firm should confirm on their letterhead that they are competent and legally authorized to submit the tender and / or to enter into legally binding contract.

**DECLARATION**

It is declared that I \_\_\_\_\_ Proprietor/Owner/ Director/  
Authorized Signatory of M/s \_\_\_\_\_ at  
\_\_\_\_\_ (address) on behalf of the participating firm  
am competent and legally authorized to submit the tender and / or to enter into legally binding  
contract with BRBNMPL.

Dated this \_\_\_\_\_ day of \_\_\_\_\_  
For & on behalf of

(Seal & signature with date)

(Name and designation)  
Duly authorized to sign tender for and on behalf of

\*If not signed by legal authority of the firm, authorization letter/Memorandum/Power of Attorney  
should be attached.

(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)

**ANNEXURE-E****DECLARATION & UNDERTAKING BY MICRO & SMALL SCALE ENTERPRISES COMPANIES**

(To be filled in the Company letter head)

Date: .....

**Declaration & Undertaking by Micro & Small Scale Enterprises Companies**

Sl No	Particulars	Details
1	Is your organization Proprietary / Partnership / Private Limited Company / Public Limited Company / Others	.....
2	Does your organization belong to Micro / Small / Medium scale Industry / others (Please tick mark appropriate box.)	Micro Small Scale Medium Others
3	Whether Manufacturer for the tendered items (supply) / Service Provider for the tendered services as per MSE certification. (Please tick mark the appropriate)	Manufacturer for supply items Service Provider for services Trader/reseller/authorized agent/distributor Non MSE Bidder
4	In case you belong to Micro / Small / Medium Scale Enterprises, whether you are registered under SC / ST Category (Please tick mark the appropriate)	Yes No If yes, SC ST
5	In case you belong to Micro / Small / Medium Scale Enterprises, whether the same is owned by women (Please tick mark the appropriate)	Yes No If yes, valid documentary evidence to be submitted

**A. Categorisation of MSE/SC-ST Vendors**

In case of Micro/Small/Medium scale Enterprises, kindly attach Registration Certificate issued by DIC/KVIC/KVIB/Coir Board/NSIC/Directorate of Handicrafts and Handlooms, or any other body specified by MSME for authentication such as Udyog Aadhaar Memorandum/Acknowledgment.

SC/ST entrepreneurs registered under MSEs need to submit valid documentary evidence.

**B. Startup Companies not allowed.**

**C. Declaration in case of MSE Bidders Companies**

In terms of Tender Conditions applicable for Micro & Small Enterprises (MSEs), we hereby declare as under: -

We are a Micro / Small Enterprise, as on bid closing date of this tender.

We are a Manufacturer of the quoted supply item(s)/service provider for quoted services and valid documentary evidence for same is submitted.

MSE certificate submitted by us is authentic & valid as on bid closing date of this tender.

We are a Micro / Small Enterprise which is owned by women and we are submitting valid documentary evidence for the same (to be specified).

We declare the above details are true. In case any of the details are found to be false/untrue, our offer will be liable for rejection /cancellation of order/subjected to appropriate actions as per tender Terms & Conditions.

.....  
Authorized Signatory  
(With Company Seal & Signature)

**(To be signed & stamped and submitted along with Techno-commercial Bid Part -I)**