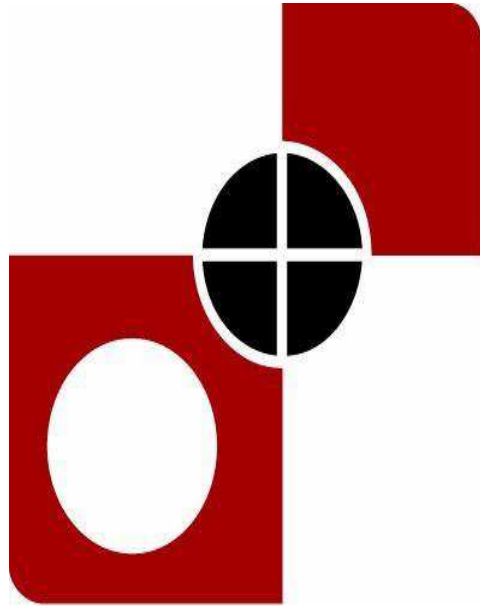


SECURITY PAPER MILL, HOSHANGABAD-461005(M.P.)
(A unit of Security Printing & Minting Corporation of India Ltd.) Wholly owned
by Government of India



TENDER DOCUMENT
MISCELLANEOUS ITEMS
SUPPLY, ERECTION AND
COMMISSIONING

Security Classification: Non-Security Item

**TENDER DOCUMENT FOR “MISCELLANEOUS ITEMS” SUPPLY, ERECTION
AND COMMISSIONING.**

Tender No. PM#5/Misc. Items/2013-14/Advt.No. 89/1000 Dated: 10.08.2013

This Tender Document Contains 62 Pages.

Tender Documents is sold to:

M/s

Address

Details of Contact person in SPM regarding this tender:

Name, Designation	:	Shri. Rajkumar R Officer Materials
Address	:	Security Paper Mill Hoshangabad M.P-461005
Phone	:	07574-279847, 07574-279791
Fax	:	07574-255170
Email	:	gm_spm@yahoo.co.in purchase_spm@yahoo.com

CONTENTS

SECTION	DESCRIPTION	NO. OF SHEETS
Section I	Notice Inviting Tender (NIT)	2
Section II	General Instruction to Tenderers (GIT)	32
Section III	Special Instruction to Tenderers (SIT)	03
Section IV	General Conditions of Contract (GCC)	28
Section V	Special Conditions of Contract (SCC)	05
Section VI	List of Requirements	07
Section VII	Technical Specifications	14
Section VIII	Quality Control Requirements	07
Section IX	Qualification / Eligibility Criteria	01
Section X	Tender Form	01
Section XI	Price Schedule	08
Section XII	Questionnaire	01
Section XIII	Bank Guarantee Form for EMD	01
Section XIV	Manufacturer's Authorisations Form	01
Section XV	Bank Guarantee Form for Performance Security	01
Section XVI	Contract Form	02
Section XVII	Letter of Authority for attending a Bid Opening	01
Section XVIII	Shipping Arrangements for Liner Cargoes	01
Section XIX	Performa of Bills for Payments	01
Section XX	Drawings	01

(Section – I)

NOTICE INVITING TENDER (NIT)

Tender No. PM#5/Misc.Items/2013-14/Advt.No.89/1000

Date : 10.08.2013

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.)
1.	Supply , Erection & Commissioning of miscellaneous items as per List of Requirement (<u>Section-VI</u>) of this tender document	As per List of Requirements (<u>Section VI</u>)	Rs. 17,000/- (Rs. Seventeen thousand only)

Type Of Tender	Two Bid NCB, Single Packet
Tender Cost	Rs. 250/-
Closing date and time for receipt of tenders	Up to 11.00 Hrs till 13.09.2013
Place of receipt of tenders	Security Paper Mill, Hoshangabad
Time and date of opening of tenders	15.00 Hrs On 13.09.2013
Place of opening of tenders	Security Paper Mill, Hoshangabad
Nominated Person/ Designation to	Officer – Materials

2. Interested tenderers may obtain further information about this requirement from the Purchase section, Security Paper Mill, Hoshangabad. 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.250/- per set in the form of account payee demand draft/ cashier's cheque/ certified cheque, drawn on a scheduled commercial bank in India, in favour of **General Manager, Security Paper Mill** payable at **Hoshangabad**.
4. If requested, the tender documents will be mailed by registered post/speed post to the domestic Tenderers, for which extra expenditure per set will be Rs. 100/- (Rupees Hundred) for domestic post. The tenderer is to add the applicable postage cost in the non-refundable fee mentioned in para 3 above.

5. Tenderers may also download the tender documents from the web site <http://spmhoshangabad.spmcil.com> & <http://eprocure.gov.in> and submit its tender 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 Documents, are dropped in the tender box located at the address given below 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.

ADDRESS

The General Manager,
Security Paper Mill,
Hoshangabad - 461 005
(M.P.) India.

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.

(Rajkumar. R)
Officer Materials
For and on behalf of
The General Manager
Security Paper Mill, Hoshangabad, M.P-461 005
Ph. No: 07574-279847, Fax No: 07574-255170

(Section – II)

GENERAL INSTRUCTIONS TO TENDERERS (GIT)

Kindly refer <http://spmhoshangabad.spmcil.com/spmcil/uploaddocument/GIT.pdf> for further details.

(GIT contains 32 Pages)

SPECIAL INSTRUCTION TO TENDERER

(Section – III)

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.

Sl. No.	GIT Clause No.	Topic	SIT Provision
1.	18	Earnest Money Deposit (EMD)	2.
2.	19	Tender validity	3.
3.	21	Submission of Tenders	4.
4.	43	Parallel Contracts	5.
5.	33	Evaluation Criteria for L1 Bidder	6.
6.	21.1, 24.1	Corrections in GIT Clauses	7.

1. EARNEST MONEY DEPOSIT (EMD)

Tender should be accompanied with Earnest Money Deposit (Non-interest bearing) of **Rs. 17,000/- (Rs. Seventeen thousand only)** in the forms as given below. a) Account Payee

- a) Demand Draft or
- b) Fixed Deposit Receipt or
- c) Banker's cheque

The demand draft, fixed deposit receipt or banker's cheque shall be drawn on any scheduled commercial bank in India, in favour of Account specified in the Clause 3 of NIT. The earnest money shall be valid for a period of forty five days beyond the validity period of the tender.

2. TENDER VALIDITY

- 2.1 The tender shall remain valid for acceptance for a period of 120 days after the date of tender opening prescribed in the tender document. Any tender valid for a shorter period shall be treated as unresponsive & rejected.
- 2.2 In exceptional cases, the tenderers may be requested by SPM to extend the validity of their tenders up to a specified period. Such request (s) and responses thereto shall be conveyed by surface mail/E-mail/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.
- 2.3 In case the day up to which the tenders are to remain valid falls on/subsequently declared a holiday or closed day for SPM, the tender validity shall be extended up to the next working day.

2.4 **Compliance with the clauses of this Tender document:**

Tenderer must comply with all the clauses of this tender document. No deviations with any of the clauses of this tender are permitted to the bidder.

3. **SUBMISSION OF TENDERS:**

3.1 Techno-commercial bid and financial bid are to be submitted in three separate doubled sealed envelopes on or before the due date of submission of tenders. It may be noted that the price is not to be quoted in techno-commercial bid. It shall only be quoted in price bid. Non-compliance to this shall be making tender liable for rejection. The envelopes containing bids shall be super scribed "**Techno-commercial bid**", "**Price bid**" as the case may be, for "**Supply, Erection & commissioning of MISCELLANEOUS ITEMS**". The sealed envelopes shall be again being put in another sealed cover and should be super scribed "**TENDER FOR SUPPLY, ERECTION AND COMMISSIONING OF MISCELLANEOUS ITEMS**" due on **13.09.2013** up to **11.00 Hrs (IST)**. Late tenders shall not be accepted. Tenderers shall submit their offers only on prescribed forms. Tender by Telegram/Fax/E-mail shall not be accepted. Tender by Post/Hand/courier received on or before the due date and time shall be accepted. Postal delay/ delay by courier service etc. shall not be condoned.

3.2 **Tenders shall be submitted in parts as below:-**

PART - I - TECHNO-COMMERCIAL BID

- i. The tenderer shall submit detailed techno-commercial offer as per as per **Section VII** of this tender document.
- ii. Earnest Money Deposit.
- iii. Tender document fee Rs. 250/-.
- iv. Manufacturer Authorization form, if the bidder is not a manufacturer.
- v. Proper filled tender form as per Section-X shall be submitted. (No price detail is to be given in this bid. In case if any price detail is given, then the bids are liable to be rejected).
- vi. The tenderer has to submit acceptance of all sections of this tender document (GIT, SIT, SCC, Quality control requirements, Tender form, Questionnaire, etc).
- vii. One original and one duplicate copy shall be submitted. It should not have any price aspects.
- viii. Containing Blank price Bid (No price detail is to be given in this bid. In case if any price detail is given, then the bids are liable to be rejected).

PART- II - PRICE BID

The tenderers shall quote the prices strictly as per the proforma given in Section – XI of the tender document. No additional/extra item(s) with price should be included other than that of section XI. Any such additional/extra item(s) will not be considered for evaluation.

4. **PARALLEL CONTRACTS**

No parallel contracts shall be awarded for this tender.

5. **EVALUATION CRITERIA FOR L1 BIDDER**

The techno-commercial bids are to be opened in the first instance, at the prescribed time and date. Two bids shall be scrutinized and evaluated by the competent committee/ authority with Reference to the parameters prescribed in the tender document.

Subsequently, in the second stage the financial bids of only the techno-commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation. Intimation regarding to opening of financial bids shall be given to acceptable Tenderers to enable them to attend the financial bid opening, if they so desire.

The method of evaluation of L1 bidder for awarding the Contract shall be on consolidated grand total offer by the bidder and will be decided taking into consideration of the total offered price including (A+B) as per **Section-XI (Price schedule)** of this tender document.

6. **CORRECTIONS in GIT Clauses**

GIT CLAUSE	WRITTEN AS IN GIT	CORRECTED AS IN SIT
21.1	In 3 rd line of procurement manual the words "Para 11 of NIT"	"Para 1 of NIT"
21.1	In 6 th line of procurement manual the words "Clause 11 of NIT"	"Clause 1 of NIT"
24.1	In 2 nd line of procurement manual the words "Clause 11 of NIT"	"Clause 1 of NIT"

(Section – IV)

GENERAL CONDITIONS OF CONTRACT (GCC)

Kindly refer <http://spmhoshangabad.spmcil.com/spmcil/uploaddocument/GCC.pdf> for further details.
(GCC contains 28 Pages)

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.

Sl. No	GCC Clause No.	Topic	SCC Provision
1	1	Abbreviations – in conjunction with GCC	1
2	9	Inspection and Quality Control	2
3	11.2	Transportation of Domestic Goods	3
4	12	Insurance	4
5	14	Incidental Services	5
6	19.3	Option Clause	6
7	16	Warranty	7
8	21.2	Taxes and Duties	8
9	22	Terms and Mode of Payment	9
10		Security Rules	10
11		Compliance with contract labour Act	11

1. **ABBREVIATIONS**

“**SPM/OWNER/PURCHASER**” means Security Paper Mill, Hoshangabad.

“**SPMCIL**” means Security Printing and Minting Corporation of India Limited

“**DCPL**” means Development Consultants Private Limited, Kolkata

“**BIDDER**”/“**TENDERER**”/“**CONTRACTOR**” means the individual/firm who quotes against this tender enquiry.

“**MANUFACTURER**” means the bidder have supplied & erected Items.

2. **INSPECTION AND QUALITY CONTROL**

2.1 SPM and/ DCPL or its nominated representative(s) will, without any extra cost to SPM, inspect and/ or test the ordered work and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. SPM shall inform the contractor in advance, in writing, SPM's programme for such inspection and, also the identity of the officials to be deputed for this purpose.

2.2 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 contractor, all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to SPM's inspector at no charge to SPM.

- 2.3 If during such inspections and tests the contracted work fail to conform to the required specifications and standards, the inspector may reject them and the contractor shall either replace the rejected work or make all alterations necessary to meet the specifications and Standards, as required within the original delivery period and as specified in the contract free of cost to SPM and resubmit the same to the inspector for conducting the inspections and tests again.
- 2.4 In case the contract stipulates pre-despatch inspection of the ordered work at contractor's premises, the contractor shall put up the work for such inspection to SPM's or DCPL's Inspector well ahead of the contractual delivery period, so that the inspector is able to complete the inspection within the contractual delivery period.
- 2.5 If the contractor tenders the goods to the 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 contractor. 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 SPM under the terms & conditions of the contract.
- 2.6 Work accepted by SPM and/ or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute SPM's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause.
- 2.7 Travelling expenses, Lodging and boarding charges of SPM officer for pre-shipment inspection shall be borne by SPM.

3. **TRANSPORTATION OF DOMESTIC GOODS**

The supplier shall arrange transportation of the ordered goods up to the SPM and further transportation up to the Project site.

4. **INSURANCE**

- 4.1 The Supplier shall arrange for insuring the goods the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner.
- 4.2 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 till unloading of the stores at site. The insurance cover shall be obtained by the Supplier in its own name and not in the name of SPM or its Consignee.
- 4.3 Insurance in respect of damages to persons and property during equipment erection:
- 4.3.1 The Contractor shall be responsible for all injury or damage to persons, animals or things and for all damage to property which may arise from any factor omission on the part of the CONTRACTOR or any of their employees. The liability under this clause shall cover also inter-alia any damage to structures, whether immediately adjacent to the works or otherwise, any damage to roads, streets, footpaths, bridges as well as damage caused to the building and other structures and works forming the subject matter of this contract. The Contractor shall also be responsible for any damage caused to the buildings and other structures and works forming the subject matter of this contract due to rain, wind, frost or other inclemency of weather.

The Contractor shall indemnify and keep indemnified the SPM and hold him harmless in respect of all and any loss and expenses arising from any such injury or damage to persons or property as aforesaid and also against any claim made in respect of injury or damage, whether under any statute or otherwise and also in respect of any award or compensation or damage consequent upon such claims. The Contractor shall, at his own expense, effect and maintain till issue of the virtual completion certificate under this contract, with an insurance company approved by the SPM, an All Risks Policy for Insurance for the full amount of the contract including earth quake risk in the joint names of the SPM and the Contractor (the name of the former being placed first in the policy) against all risks as per the standard all risk policy for Contractor's and deposit such policy or policies with SPM before commencing the works.

- 4.3.2 The Contractor shall reinstate all damage of every sort mentioned in this clause so as to delivery of the whole of the works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to property or third parties.
- 4.3.3 The Contractor shall also indemnify and keep indemnified the SPM against all claims which may be made against the SPM by any person in respect of anything which may arise in respect of the works or in consequence thereof and shall at his own expense, effect and maintain until the virtual completion of the contract, with an Insurance Company approved by the SPM a policy of Insurance in the joint names of the SPM and the Contractor (name of the former being placed first in the policy) against such risks and deposit such policy or policies before commencement of the works.
- 4.3.4 The minimum limit of the coverage under the policy shall be Rs.2 Lakhs per person for any one accident or occurrence and Rs.5 Lakhs in respect of damage to property for any one accident or occurrence. The Contractor shall also indemnify the SPM against all claims which may be made upon the SPM, whether under the Workmen's Compensation Act or any other
- 4.4 Statute in force, during the currency of this contract or at Common Law in respect of any employee of the Contractor and shall be at his own expense, effect and maintain until the Virtual Completion of the Contract with an Insurance Company approved by the SPM a policy of Insurance against such risks and deposit such policy or policies with the SPM from time to time during the currency of this contract.
 - 4.4.1 In default of the Contractor insuring as provided above, the SPM may so insure and may deduct the premiums paid from any money due or which may become due to the Contractor.
 - 4.4.2 The Contractor shall be responsible for any liability which may not be covered by the insurance policies referred to above and also for all other damages to any person, animal or defective carrying out of this contract, whatever, may be the reasons due to which the damage shall have been caused.
 - 4.4.3 The Contractor shall also indemnify and keep indemnified the SPM against all and any costs, charges or expenses arising out of any claim or proceedings relating to the works and also in respect of any award of damage or compensation arising there from.
 - 4.4.4 Without prejudice to the other rights of the SPM against Contractors in respect of such default, the SPM shall be entitled to deduct from any sums payable to the Contractor the amount of any damages, compensation costs, charges and other expenses paid by SPM and which are payable by the Contractor under this clause.

- 4.4.5 The Contractor shall upon settlement by the insurer of any claim made against the insurer pursuant to a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the money received from the insurer in respect of such damage shall be paid to the Contractor and the Contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged.
- 4.4.6 The Contractor, in case of re-building or reinstatement after damage shall be entitled to such extension of time for completion as SPM and/ or DCPL may deem fit, but shall, however, not be entitled to reimbursement by SPM of any shortfall or deficiency in the amount finally paid by the insurer in settlement of any claim arising as set out herein.

5. **INCIDENTAL SERVICES**

- 5.1 Subject to the stipulation in the Technical Specification (Section - VII); the supplier shall be required to perform 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 SPM'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.

6. **OPTION CLAUSE**

- 6.1 The Purchaser reserves the right to place an option order for 25% of the quantity of final order on the same rates, terms and conditions 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.

7. **WARRANTY**

- 7.1 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 SPM 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 SPM'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.
- 7.2 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 SPM in terms of the contract or for **eighteen months** from the date of despatch from the supplier's premises whichever is later.

- 7.3 In case of any claim arising out of this warranty, SPM shall promptly notify the same in writing to the supplier.
- 7.4 Upon receipt of such notice, the supplier shall, with all reasonable speed and time, 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 SPM for such replaced parts/ goods thereafter.
- 7.5 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 SPM.
- 7.6 If the supplier, having been notified, fails to rectify/ replace the defect(s) within a reasonable period, SPM may proceed to take such remedial action(s) as deemed fit by SPM, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which SPM may have against the supplier.

8. **TAXES AND DUTIES**

TDS or any other applicable taxes shall be deducted from the firm's bill.

9. **TERMS AND MODE OF PAYMENT**

9.1 **TERMS OF PAYMENT**

- a) 80% payment of the cost of goods (as per part "A" of the price schedule Section XI of this tender document) shall be made on receipt and acceptance of goods by the consignee at destination and on production of all required documents by the supplier.
- b) 20% payment of the cost of goods (as per part "A" of the price schedule section XI of this tender document) and 100% payment of the cost of installation and commissioning (as per part "B" of the price schedule section XI of this tender document) shall be made on successful erection, commissioning, and acceptance by the SPM.

9.2.1 **MODE OF PAYMENT**

Payment will be made through RTGS/NEFT; Firm should furnish all Bank detail including RTGS/NEFT code extra in their bill.

10. **SECURITY RULES**

- 10.1 The Contractor shall strictly abide by the security rules and regulations enforced by the SPM from time to time. The Contractor shall provide proper identity cards, badges etc., to his employees whenever directed by the DCPL/SPM.
- 10.2 The Contractor shall arrange for police verification certificates for all his employees/worker/supervisor and the contractor and submit it to CISF (SPM) before starting of the work to obtain the gate pass of the concerned person.

11. **COMPLIANCE WITH CONTRACT LABOUR ACT**

The contractor shall comply with all the provisions of the EPF rules, Workmen Compensation Act 1923, Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970 amended from time to time and rules framed there under. The provision of building and other Construction Worker's Regulation of Employment & Condition of Service Act, 1996 amended from time to time and rules framed therein to be followed.

LIST OF REQUIREMENTS

Schedule No.	Brief description of work and services (Related specifications etc. are in	Accounting unit	Quantity	Amount of Earnest
1.	Supply, transportation from stockyard, pre-assembly at site, consumable materials, complete erection, testing, commissioning of MISCELLANEOUS ITEMS , as specified under Section – VII.	Refer Appendix-B of Section VII	Refer Appendix-B of Section VII	Rs. 17000 /- (Rupees Seventeen Thousand only).

Required Completion Schedule : Two (2) months from the date of issue of Notification of Award of contract or Purchase Order whichever is earlier. (Including Supply & Erection & commissioning).

Required Terms of Delivery : F.O.R SPM Hoshangabad (Duly unloaded)
Preferred Mode of Transportation : Roadways

1. **DETAIL SCOPE OF SUPPLY**

The detail scope of supply of the Tenderer for this Tender shall include the following:

1.1 **SCOPE OF SUPPLY**

The scope of supply of the Tenderer covered under this specification shall include the following:

1.1.1 All items/fittings outside the battery limit of different package Vendors as per the details incorporated within following Appendices which form integral Part of this Specification :

- a) Appendix - A : Site and Mill Services Data
- b) Appendix - B : Schedule of **MISCELLANEOUS ITEMS**.

1.2 **SCOPE OF SERVICES**

1.2.1 The successful Tenderer under this specification shall be responsible for the complete erection & commissioning and handing over of the equipment supplied by him.

1.2.2 The Tenderer shall arrange for supply of all labour (supervisor, skilled, unskilled and administrative), transport vehicles, erection tools and tackles, radiography & stress relieving equipment as may be required for the efficient & timely execution of the contract. All consumable materials including welding electrode and gases, oils and greases, cleaning and anticorrosive fluids and all other necessary materials required during erection.

1.2.3 Opening of packing cases, inspection & checking of materials for their completeness and condition. No packing case shall however be opened except in presence of SPM/DCPL authorized representative

1.2.4 Once the materials are inspected, the same shall be stored by the Contractor near the place of erection, as required or directed Purchaser's representative, adequately protected from theft and deterioration or damage by rain, storm, dust water, tampering by casual visitors or workers. Any damage or loss through theft shall be to Contractor's account free of cost.

1.2.5 SPM will make available the following items free of cost to the successful Tenderer : Power, Water required for testing and commissioning at one single point only.
However, successful Tenderer shall send prior intimation to the SPM indicating the details of above utility requirement for testing and commissioning.

2. **SAFETY AND HEALTH INSTRUCTIONS**

During installation, the Contractor shall follow all the Safety Policy and Plant Safety rules of SPM and also the various provisions of M.P. Factories Rules, 1962 made under Factories Act, 1948.

This instruction gives broad guidelines to be followed by the Contractor for ensuring safe working conditions in and around the site.

2.1 **SAFETY ORGANISATION**

Contractor at site shall organize a Safety Group headed by a Safety Officer who shall be responsible for providing, supervising and monitoring safe working conditions at all times for their workers. The Safety Officer shall be experienced in maintaining safe conditions for workers at site and shall be responsible for and shall have authority to enforce safe conditions for the workers.

Contractor shall have a declared Safety Policy and shall get the same approved by the SPM and/or DCPL. The approved Safety Policy shall be displayed prominently in the Contractor's site office. Contractor shall take active interest and participate in the development and operation of safety programs at site. His responsibility does not cease with establishment of Safety Group and approval of its various activities. He shall demonstrate his involvement by regular participation in safety meetings, review of safety records and taking corrective action where required, introduction of safety promoting bulletins, posters, suggestions and awards and by setting example by strictly observing safety rules.

Contractor shall remove all waste material and debris from and around the work area and properly clean up the area at the end of each day before leaving the work site.

The Contractor shall take all necessary precautions not only for safe working of his own workmen but also deploy all precautions to ensure safety of structures, equipment and workmen of other agencies in and around his work site. The Contractor shall ensure that his workmen do not trespass into prohibited areas.

SPM and/or DCPL shall have the right to inspect at any time, all items of machinery or equipment brought to site by the Contractor, his agents or workmen and to prohibit the use on the site of any item, which in the opinion of the SPM and/or DCPL is or may be detrimental to the safety of the site. The exercise of such right or the omission to exercise it in any particular case shall not absolve the Contractor or his agents or workmen of their responsibility of adhering to the safe working practices.

Contractor shall execute the work in a manner causing the least possible interference with the business of the SPM and/or DCPL, or with the work of any other Contractor who may be engaged on the premises and shall at all times co-operate with the other Contractors working at site.

Contractor shall obtain work permit from the SPM and/or DCPL before starting any work at site. The work permits are issued to prevent the Contractor from working in un-authorized areas

and shall be valid for specific area for a stipulated period.

The Contractor shall ensure at all times that his workers do not lie down or sleep under or around any machine, equipment, vessel, vehicle or structures in his work area.

2.2 RESPONSIBILITIES OF THE CONTRACTOR'S SAFETY OFFICER

He is responsible and accountable for:

- a) Preventing injury to personnel, damage to plant and equipment and fires.
- b) Instituting ways to improve existing work methods from safety point of view.
- c) Legal and contractual requirements affecting safety, health, and welfare of his workmen
- d) Provision and use of protective clothing and equipment and use of fire fighting equipment
- e) Suitability of new and hired equipment from a safety viewpoint
- f) Identifying potential hazards.
- g) Changes in safety requirements and fire precautions
- h) Carrying out site surveys to see that only safe work methods are in operation, health and safety requirements are being observed and welfare and first aid facilities are adequate and properly maintained.
- i) Determining the cause of an accident or dangerous occurrence and recommend means of preventing recurrence.
- j) Supervising the recording and analysis of information on injuries, damage and production loss. Assess accident trends and review overall safety performance.
- k) Assisting with training of employees at all levels. Organizing periodic demonstration of practicing safe working conditions by experienced safety instructors.
- l) Taking part in discussions on injury, damage and loss control.
- m) Keeping up-do-date with recommended codes of practice and safety literature. Circulating information applicable to each level of employees.
- n) Fostering within the company an understanding that injury prevention and damage control are an integral part of business and operational efficiency.
- o) Attending job progress meetings where safety is an item on the agenda. Report on job safety performance.

The Safety Officer shall inspect and ensure the following:

- a) All electrical equipments are securely earthed.
- b) Standard access platforms and ladders are provided for inspection, operation and maintenance of equipment.
- c) The equipment are periodically inspected for their condition, maintained properly and operated by trained personnel at design speeds and loads.

2.3 WORKING AT HEIGHTS

For carrying out work at heights exceeding 2 meters or near openings in floors and roofs etc. precautions as given in following para shall be taken.

Adequate safety precautions like use of safety belts, crawling-ladders, safety nets etc. shall be taken. The workers shall wear safety belts with hook properly fastened.

All workmen engaged on work at heights shall be experienced in such work.

Written permission of the SPM and/or DCPL shall be obtained before undertaking work on roofs. Wherever possible, steel staging or platform shall be erected.

Staging with toe guards shall be provided with simple safety rails or ropes at waist height throughout its length on all open sides.

Staging supports shall be All Purpose Scaffolding (APS) steel tubes scaffolding, safety secured and supported on firm level footings or slung from overhead beams. The supports shall be situated at maximum distance of 2.5 meters apart and the staging shall be secured to each support.

Wherever it is not possible to put up staging and/or use of safety belts, safety nets shall be slung beneath the place of work for safety.

When working over open process vessels or tanks, safety belts and safety nets shall always be used whether or not staging and scaffolding is provided.

Safe access to all points of works shall be provided in the form of suitable ladders and stairways etc. Area around the work place shall be barricaded suitably or fenced off to avoid injuries to personnel passing by. Suitable warning boards and signs shall be put up.

2.4 **ELECTRICAL**

Portable power tools rated for above 50 V supply and hand lamps rated for above 24 V supply shall not be used at site.

All power supply and distribution boards shall have canopy for protection and all the distribution boards shall be earthed securely.

All supply points shall have proper plug and socket.

The Contractor shall check tightness of connection of cable terminations and joints before starting the work.

2.5 **WELDING**

Only qualified welders shall be employed at the work site. The Contractor shall organise the qualifying test at site for his welders and the SPM and/or DCPL shall approve the welders. All welders shall have to undergo qualifying test and only on passing the test, they shall be allowed to work at site.

For all welding work at site, generator sets shall be used instead of AC transformer sets. AC Transformer sets are banned for welding jobs inside vessels (both open and closed top type). The Contractor shall get his welding sets certified by the SPM and/or DCPL before starting work. These certificates shall have to be renewed every two months. A copy of the certificates shall be displayed on respective welding sets.

Only cables in good condition and insulated holders shall be used. The length of supply cable to welding site shall not exceed 8 metres and the welding set body shall be properly earthed.

A charged fire extinguisher of CO₂ type shall be carried with each welding set. The Contractor shall keep Halon or equivalent type fire extinguishers near hot jobs like cutting oil lines.

The welder shall not use a building structure, pipeline or railway track etc. as a return path of the current. Adequately rated circuit breaker shall be provided in the power circuit for human protection on all power supply points.

2.6 **HOT WORK**

Before starting any hot work like gas cutting, welding and grinding etc., the Contractor shall obtain hot work permit from the SPM and/or DCPL. The permit shall be renewed on day-to-day basis.

The Contractor shall ensure purging of piping and equipment to make it totally safe before carrying out any hot work.

Smoking is strictly prohibited in work areas inside the SPM premises

No combustible material shall be stored on or near any source of heat like hot pipes, welding or

gas. Before leaving the place of work or the Contractor's sheds, the Contractor's workmen shall ensure that no material or item that could start a fire is left at site. Special attention shall be paid to collection and disposal of oil soaked cotton waste or rags. On no account are these to be dropped into corners, pushed below equipment or left hanging on pipes.

Gas cylinders shall be used in a safe manner. These shall not be dropped from heights or dragged on the floor. Trolley with rubber rimmed wheels shall be used for transporting gas cylinders within the site. Acetylene cylinders shall be kept in upright position. Oxygen cylinders shall not be kept near inflammable materials like oil etc.

Tarpaulins shall not be used in the vicinity of welding and gas cutting jobs.

The Contractor's supervisor of the rank of a foreman or equivalent shall examine the

arrangements made for hot work before commencement of work and shall satisfy him that all reasonable safety precautions have been taken.

The Contractor shall return the hot work permit after completion of welding work.

2.7 **PERSONAL PROTECTIVE EQUIPMENT**

Workmen at site shall wear protective clothing, head, leg and eye protection safety equipment at all times as per the job requirements. These are to be supplied and provided by the Contractor.

Adequate number of IS approved safety helmets shall be available at site.

Welders shall wear good quality insulated welding gloves, goggles, face shield, shoes and overalls while at work.

2.8 **ACCIDENTS**

In case of injury or serious illness of a worker, the DCPL/SPM shall be notified immediately. All accidents shall be recorded by filling in the 'Accident Report' form, which shall be kept in easy accessible location in the site office of the Contractor. Any 'Near Miss' incident shall also be reported by the Contractor and recorded.

2.9 **INSURANCE**

All the Contractor's workmen shall be covered under the Employees State Insurance Scheme, Medi claim Policy or any other scheme which may be specified by the Statutory Authorities from time to time.

2.10 **REVIEW MEETING**

The SPM and/or DCPL shall conduct fortnightly Safety Review Meeting to review the safety conditions practised at work areas by the Contractor.

2.11 **WORK AFTER NORMAL WORKING HOURS**

Extra care shall be taken for jobs to be carried out after normal working hours with due revalidated work permit and supervised by the Contractor's site in-charge. The site-in-charge shall make available his residential address and telephone number to the SPM and/or DCPL so that he can be contacted in case of an emergency.

Proper lighting shall be ensured at the workplace for any work carried out after the normal working hours.

2.12 **CONVEYANCE FOR EMERGENCY**

The Contractor shall ensure that conveyance and person with driving license is available at site at all times of work execution so that in case of an accident, the victim can be rushed to nearest medical centre.

2.13 **SAFETY PRACTICES**

Avoid working under un-insulated live conductors or working on freshly painted steel, which is still wet.

Stairs and railing shall be in place as long as necessary. Ladders shall be periodically checked for any defects. Ladders shall be securely fastened to prevent movement while in use.

The Contractor shall advise his workmen to take the following precautions while using ladders:

- a) While ascending or descending, face the ladder. Use both hands for holding.
- b) Do not climb higher than the third rung from top on straight or extension-ladders and second rung from top on set ladders.
- c) Step-ladders shall be fully open before use.
- d) Sliding down a ladder shall be prohibited.
- e) Make shift ladders such as clear fastened across a single rail and short ladders spliced together shall never be used.
- f) Ladders shall be kept free from dirt and grease.
- g) Defective ladders shall be removed from use.
- h) Ladders shall not be left un-attended unless these are securely anchored at top and bottom.
- i) While using ladders, shoes shall not be greasy, muddy or otherwise slippery.
- j) Ladder shall not be used during severe windy conditions.

Lumber shall be piled out of the work area. Nails shall be removed or bent while handling lumber to avoid injury to workmen.

While tearing down plaster or brickwork, dust shall be controlled with water.

Walls shall not be subjected to lateral pressure or impact from materials stored or falling materials. The safety valves for boilers shall be set by trained personnel and shall be sealed or padlocked at safe working pressure. Only authorized person shall change the setting of safety valves. The safety valve relieving pressures shall be checked as recommended by the manufacturer and applicable codes.

Blow down valves shall be operated strictly as per instructions. If blow cock is not marked with an arrow to show open and close position, the same shall be marked at site.

Safety slogans and safety instructions shall be prominently displayed in English, Hindi and local language at strategic locations.

2.14 **EMERGENCY PROCEDURES**

The Contractor shall familiarize himself with the emergency procedures, which apply to plants and areas in which his men are working.

First Aid Box shall be kept in the Contractor's site office. The Contractor's site-in-charge and his key supervisors shall be trained in administering first aid, preliminary treatment for electrical shocks, fall from height and burns etc.

When an emergency condition exists or on hearing the 'Stop Work Alarm' every supervisor shall ensure:

- a) All work is stopped at once.

- b) All equipment is shutdown.
- c) All men are evacuated to a pre-determined assembly point.
- d) A roll call is taken and every man is accounted for.
- e) No one shall be permitted to return to work until notification has been received from a responsible authorised agency that it is safe to do so.

2.15 RESPONSIBILITY OF THE CONTRACTOR'S SITE IN CHARGE

His primary responsibility is safety of personnel and equipment. He shall:

Understand the company's policy on maintaining safe working environment and appreciate the responsibility allocated to each grade of supervision.

Know the safety requirements and relevant Government Regulations, and ensure their implementation.

Ensure that sound, safe working methods and reasonable welfare facilities are provided for workers. Determine at the planning stage the following:

- 2.16.1 The most appropriate order and method of working
- 2.16.2 Allocation of responsibilities to supervisors
- 2.16.3 Storage areas and access etc.
- 2.16.4 Hazards which may arise from overhead or underground services
- 2.16.5 Facilities for welfare, first aid and sanitation
- 2.16.6 Work permits procedures and requirements
- 2.16.7 Basic fire precautions
- 2.16.8 Provide written instructions to establish work methods, to explain the sequence of operations, to outline potential hazards at each stage and to indicate precautions to be adopted.

2.17 TIME SCHEDULE

2.17.1 The work shall be executed strictly as per the time schedule given in this Bid Document.

2.17.2 The Bidder shall furnish a proposed time schedule by CPM/bar-chart along with his quotation. The time schedule should indicate the details considering the date of issue of Letter of Intent as the zero date and should show completion of various activities there from.

2.17.3 The time schedule shall clearly include all important events regarding engineering, procurement, construction, testing and handing over for each area, commensurate with the overall time schedule.

2.17.4 The time schedule shall form a part of the Contract Document.

2.17.5 BI-WEEKLY Progress reporting shall be done by the Contractor for engineering, procurement and construction activities on mutually agreed formats. Reports on such formats will be sent regularly in soft copies with six (6) copies of print as per frequency / periodicity agreed upon from time to time.

TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

CLAUSE NO.	DESCRIPTION
1.00.00	INTENT OF SPECIFICATION
2.00.00	SCOPE OF WORK OF TENDERER
3.00.00	TECHNICAL REQUIRMENT
4.00.00	SPECIAL CONDITION FOR RATES OF CERTAIN ITEMS (SUPPLY)
5.00.00	CONDITION OF SUPPLY
6.00.00	DRAWINGS/DATA/DOCUMENTS THAT SHALL BE FURNISHED BY THE SUCCESSFUL TENDERER
APPENDIX A	SITE & MILL SERVICES DATA
APPENDIX B	SCHEDULE OF MISCELLANEOUS ITEMS
ANNEXURES I THRU' III	PROPOSAL SHEET

1.00.00 **INTENT OF SPECIFICATION**

This specification is intended to cover supply, erection & commissioning at manufacturer's works, packing, forwarding and delivery to mill site, unloading and storing, transportation, pre-assembly at site, consumable materials, and complete erection and commissioning and testing of Miscellaneous items.

2.00.00 **SCOPE OF WORK OF THE TENDERER**

The scope of work of the Tenderer for this tender shall be as per List of Requirement under Section VI of this tender document.

2.01.00 Items of Work :

The successful Tenderer under this specification shall be responsible for the following items of work.

2.01.01 Erection of tees, bends, reducers, all pipe fittings, hose & quick release Coupling, first isolation valve, screwed/socket welded valves of 50 mm NB & below, threading and tapping, cutting and edge preparation wherever required, connection with equipment.

3.00.00 **TECHNICAL REQUIREMENT**

3.01.00 **FOR SUPPLY**

3.01.01 Technical Specification Items covered by this Specification shall be manufactured, inspected, tested, marked and packed as per the technical specifications furnished in enclosed Appendix-B

3.01.02 Schedule of Quantities

The schedule of quantities of various items as covered under the scope of this Specification have been given in enclosed Appendix-B.

4.00.00 **SPECIAL CONDITIONS FOR RATES OF CERTAIN ITEMS (SUPPLY)**

4.01.00 **Reducers and Reducing Tees**

4.01.01 Sizes on above items are indicated in enclosed Appendix-B as per following procedure :

Item	Size Indicated in Appendix-B	Size Indicated in Appendix-B
1	2	3
Reducers, of all concerned types	Large End	Small End
Reducing (Unequal) Tee of all Concerned Types	Run	Branch

4.01.02 The Tenderer shall quote for the above items which shall be exclusively based on the sizes indicated under Col.2 against above paragraph. For example, the prices of Reducers of a particular Specification and of Sizes, say, 200 mm NB x 150 mm NB, 200 mm NB x 100 mm NB and 200 mm NB x 125 mm NB shall be same. Identical logic shall apply in case of Reducing/Equal Tees also.

4.01.03 For Concentric and Eccentric Reducers shall be same for a particular size and Specification.

4.02.00 30° /45°/60° Elbows

Cost of Elbows of a particular Specification and size shall be same irrespective of above included angles. Consequently a total quantity for above included angles is indicated in Appendix-B against a particular Specification Code No. and Size.

5.00.00 **CONDITIONS OF SUPPLY**

5.01.00 **Packing**

5.01.01 All items shall be properly and securely packed in wooden crates prior to delivery. All such crates shall be legibly marked with the following information.

- a) Name of the Purchaser ("Security Paper Mill")
- b) Address of destination as advised in Purchase Order.
- c) Purchase Order No. and Date.
- d) Name of the Project as advised in the Purchase Order.
- e) Names of items packed.

6.00.00 **DRAWINGS & DOCUMENTS TO BE SUBMITTED BY SUCCESSFUL BIDDER**

A. Drawings & Documents.

1. Overall project schedule in the form of bar chart.
2. Material test certificate.
3. Dimensional drawings of all items.

SITE AND MILL SERVICES DATA

A. PHYSICAL & CLIMATOLOGICAL DATA

1. Location
 - Nearest Airport : Raja Bhoj Airport, Bhopal
 - Nearest Railhead : Hoshangabad
 - Nearest Sea Port : Mumbai

2. Altitude : 302 Meters above MSL

3. Ambient Air Temp.
 - Maximum : 46.3° C
 - Minimum : 3.3° C
 - Average : 32.8° C

4. Mean Dry Bulb Temp. : 30.9° C

5. Mean Wet Bulb Temp. : 21.2° C

6. Relative Humidity
 - Maximum : 91 %
 - Minimum : 19%

7. Rainfall
 - Annual average : 1225.9 mm
 - Annual Maximum : 2045.7 mm

8. Wind Velocity
 - Mean : 0.8 m./sec
 - Maximum : 2.1 m/sec

9. Earthquake zone : Seismic Zone III


SITE AND MILL SERVICES DATA (CONT'D.)



B. UTILITY SERVICES DATA

1. Mill water pressure at ground floor : 3.0 bar a
2. Mill air pressure : 6.0 bar a
3. Inst. Air pressure : 6.0 bar a
4. Process Steam Pressure & Temp.
 - Medium Pressure - 2 : 8.5 bar g, 181⁰C
 - Medium Pressure - 3 : 5.5 bar g, 162⁰C
 - Low Pressure - 1 : 3.5 bar g, 148⁰C
 - Low Pressure - 2 : 1.5 bar g, 130⁰C
5. Power Supply
 - Primary Distribution Voltage :
 - 33 kV ±5%, 50 Hz ±3%, 3 Phase, 3 Wire, Fault level : 31.5 KA for 3 sec, Earthed through NGR
 - Secondary Distribution Voltage :
 - 11 kV ±5%, 50 Hz ±3%, 3 Phase, 3 Wire, Fault Level: 40 KA for 1sec, Earthed thru NGR
 - 415 V ±10%, 50 Hz ±3%, 3 Phase, 4 Wire, Effectively (Solidly) Earthed, Fault level:50 KA for 1 sec

SCHEDULE OF GENERAL PIPING AND FITTINGS

(Appendix – B)

SL. NO.	ITEM	DETAILED SPECIFICATION	SIZE (mm NB)	QUANTITY (METERS/NOS)	REMARKS
1.	Ball Valve with counter flanges, gaskets, nuts & bolts	Basic Specification : BS 5351, Regular port ball, Flange end for 65NB & above and screwed end for below 65NB, body rating & end connection as per class 150# for 65NB & above and 800# for below 65NB, MOC for body & trim – AISI 316/CF8m, Design Pressure & Temperature- 10.5 kg/cm ² (g) & 121 ⁰ C, Gasket material : PTFE with silica	80	12	
2.	Ball Valve with counter flanges, gaskets and nuts & bolts	Same as above	65	7	
3.	Ball Valve with counter flanges, gaskets and nuts & bolts	Same as above	50	7	
4.	Butterfly valve with two counter flanges, gaskets, nuts & bolts	Basic Specification : BS 5351, Cast Iron body with SS 304 lining, Design Pressure & Temperature- 10.5 kg/cm ² (g) & 49 ⁰ C, Gasket material : Neoprene or Nitrile Butadiene Rubber (Buna-N)	250	1	
5.	Butterfly valve with two counter flanges, gaskets, nuts & bolts	Same as above	200	1	
6.	Gate Valve	Wedge Gate, Socket weld end, body rating & end connection as per ANSI class#800, MOC for body – Carbon steel, other internals – stellited, Design Pressure & temperature 20kg/cm ² (g) & 195 ⁰ c	20	4	
				SECURITY PAPER MILL	
				HOSHANGABAD	INDIA
REV	BY/DATE	REVISION	APP'D	NEW PM#5 AND UPGRADATION PROJECT	
				SCHEDULE OF MISCELLANEOUS ITEMS (SHEET - 1 OF 3)	
PPD	CHK'D	APP'D	SPECIFICATION NO.	JOB NO.	 DEVELOPMENT CONSULTANTS PRIVATE LIMITED CONSULTING ENGINEERS
			11P01- SPC-M-000-34.03	11P010	

SL. NO.	ITEM	DETAILED SPECIFICATION	SIZE (mm NB)	QUANTITY (METERS/NOS)	REMARKS
7.	Pipe	ASTM A06 Gr. B, Sch.80	15	6	
8.	Equal Tee	ASTM A234 Gr. WPB, DIM – ANSI B16.11, 3000lb, socket weld end	50	20	
9.	Equal Tee	Material & Dim. As per IS : 1239/BS : 1740, GI, Screwed end.	50	15	
10.	Equal Tee	ASTM A234 Gr.WPB, DIM-ANSI B16.11, But weld end	65	6	
11.	Con. Reducer	ASTM A234 GR.WPB, DIM-ANSI B16.9, But weld end.	80x50	4	
12.	Stub End	SS as per ASTM A403 WP 316, DIM-ANSI B16.9	200	1	
13.	Emergency shower	HAWS#8163-H Horizontal supply single head drench shower.	25	2	
14.	Emergency eye wash	HAWS#7460, Twin eye wash heads with bowl & push type ball valve.	25	2	
15.	Hose	One end shall be fixed flange on pipe end as per DIN 2576, PN10 other end shall be quick release coupling. Material : body/spring/ball – SS 316L, seal – Teflon, hose – inner core of corrugated Teflon, externally reinforced with SS wire braid. W.P.-10kg/cm ² , T.P.-25kg/cm ²	80NBX3.5 m length	2	
16.	Hose	Same as above	65NBX3.5 m length	1	
17.	Hose	Same as above	50NBX3.5 m length	1	
18.	U.V. Disinfecter	Capacity : 200 LPM, Size of Nozzles (Inlet & Outlet) : 50 NB, inlet water turbidity : 5 NTU, Inlet water suspended solids : 10 ppm, Ph : 6.5-9.5	-	1	
19.	Vibrating level switch	Refer Appendix-B , sheet 3 of 3	80	2	
					 SECURITY PAPER MILL HOSHANGABAD INDIA
REV	BY/DATE	REVISION	APP'D		
					SCHEDULE OF MISCELLANEOUS ITEMS (SHEET - 2 OF 3)
PPD	CHK'D	APP'D	SPECIFICATION NO.	JOB NO.	 DEVELOPMENT CONSULTANTS PRIVATE LIMITED CONSULTING ENGINEERS
			11P01- SPC-M-000-34.03	11P01	

Specifications for Vibrating Fork Liquid Level Switch

- | | | |
|----------------------------------|---|---|
| 01. Quantity | : | 2 nos. |
| 02. Tag No. | : | FAS-KJ30, FAS-JJ30 |
| 03. Type | : | Vibrating Fork Liquid Level Switch |
| 04. Fork Material | : | 316L stainless steel |
| 05. Fork Length | : | Standard length for DN80 pipeline |
| 06. Process Connection | : | 1" NPT thread |
| 07. Process Data | | |
| <u>For FAS-KJ30:</u> | | |
| Process Fluid | : | H ₂ SO ₄ (98%) |
| Line Size | : | DN80 |
| <u>For FAS-JJ30:</u> | | |
| Process Fluid | : | NaOH (50%) |
| Line Size | : | DN80 |
| 08. Type of switch configuration | : | PNP/PLC low voltage switching (3-wire) 20 to 60VDC |
| 09. Housing | : | Aluminum alloy |
| 10. Protection | : | FM Explosion Proof |
| 11. Surface finish | : | Standard surface finish |
| 12. Cable Connection | : | ¾" NPT |
| 13. Accessories | : | a) Complete installation accessories for pipe mounting.
b) Stainless steel alpha-numeric engraved for service and tag. |

PROPOSAL SHEETS
ANNEXURE I THRU' III

PROPOSAL SHEETS

ANNEXURES TO TENDER SPECIFICATION

(To be filled by the Successful Bidder)

1.0.0 The Bidder shall fill in the Technical information and the data sheets required in the following Annexures after award of contract.

Annexure – I	:	Schedule of Items under Tenderer's Scope of supply
Annexure – II	:	Technical Particulars
Annexure – III	:	Progress Schedule

ANNEXURE – I

SCHEDULE OF ITEMS UNDER TENDERER'S SCOPE OF SUPPLY

(Use Separate Sheets for Each Item)

The Tenderer shall submit this Schedule of Items to show his Scope of Supply quantitatively (Additional Sheets may be used if necessary)

<u>Sl.No.</u>	<u>Items*</u>	<u>Specification*</u>	<u>Size, mm NB</u>	<u>Quantity, Nos.</u>
----------------------	----------------------	------------------------------	---------------------------	------------------------------

* 'Specification' and 'Item' should be indicated exactly the same way as indicated in Appendix-B enclosed.

ANNEXURE – II TECHNICAL PARTICULARS

The Tenderer shall furnish technical information for the materials for a given size range as indicated in Appendix-B covered by this Tender Document in the following format without which Tender shall be considered as incomplete.

- 1.00.00 General
- 1.01.00 Item :
- 1.02.00 Specification :
- 1.03.00 Name and Address of the Manufacturer :
- 1.04.00 Size/Size Range, mm NB :
- 2.00.00 Technical Specification
- 2.01.00 Applicable Basic Code/ Standard/Specification for design/fabrication manufacture :
- 2.02.00 Material of Construction :
- 2.03.00 Dimensional Standard & Thickness : Size NB, mm Thickness, mm
- 2.04.00 Minimum length per Piece of Pipe, M :
- 2.05.00 End Preparation Standard :
- 2.06.00 Basic Codes and Standards : for testing the following as applicable
- 2.06.01 Material :
 - i) Chemical Composition :
 - ii) Mechanical :
 - iii) Metalographic :
- 2.07.00 Basic codes and standards : For inspection requirement
- 2.08.00 Certification Requirement :
- 2.09.00 Marking Standard :
- 2.10.00 Type of surface protection : Given before shipment

ANNEXURE - III
PROGRESS SCHEDULE

The Tenderer shall indicate the time required for different phases of work under the scope of this Specification in the format produced below. The time shall be mentioned in number of weeks considering the date of issue of Letter / Telex/Fax/E-Mail of Intent or Purchase Order as zero date, the time shall include the following activities in sequence.

Clause No.	Activity	Time in Week.
1.00.00	<u>Procurement of Raw Materials</u> :	
1.01.00	Start Issuing Orders	:
1.02.00	Complete Issuing Orders	:
1.03.00	Start receiving at works	:
1.04.00	Complete receiving at Works	:
2.00.00	<u>Purchase Order for Boughtout Items</u> :	
2.01.00	Start issuing Orders	:
2.02.00	Complete issuing Orders	:
2.03.00	Start receiving at Works	:
2.04.00	Complete receiving at Works	:
3.00.00	<u>Manufacture at Works</u> :	
3.01.00	Start Manufacture	:
3.02.00	Complete Manufacture	:
4.00.00	<u>Testing at Manufacturers' Works</u> :	
4.01.00	Start Testing	:
4.02.00	Complete Testing	:

ANNEXURE - III

PROGRESS SCHEDULE (Cont'd.)

Clause No.	Activity	Time in Week.
5.00.00	<u>Delivery at site</u> :	
5.01.00	Start delivery F.O.R. , Hoshangabad :	
5.02.00	Complete delivery F.O.R., Hoshangabad :	
5.03.00	Arrival of first consignment at site : (estimated)	
6.00.00	<u>Erection</u> :	
6.01.00	Start Erection at site :	
6.02.00	Complete Erection at site :	
7.00.00	<u>Testing at Site</u> :	
7.01.00	Start Testing :	
7.02.00	Complete Testing :	
8.00.00	<u>Commissioning</u> :	
8.01.00	Start Trial Run :	
8.02.00	Complete Commissioning :	

QUALITY CONTROL REQUIREMENTS

1.00.00 QUALITY ASSURANCE PROGRAMME

1.01.00 To ensure that the equipment and services under the scope of Contract whether manufactured or performed within the Contractor's works or at his Sub-contractor's premises or at the SPM's Site or at any other place or work are in accordance with the specifications, the Contractor shall adopt suitable quality assurance program to control such activities at all points, as necessary. Such programs shall be detailed by the Contractor and shall require acceptance and approval by the SPM/DCPL before the award of Contract.

- 1.02.00 A quality assurance program of the Contractor shall generally cover the following:
- a) His organization structure for the management and implementation of the proposed quality assurance programs.
 - b) Qualification data for key personnel.
 - c) Use of suitably qualified and experienced personnel in required number for each type of work.
 - d) The procedure for quality assurance in design & engineering.
 - e) The methods, procedures and program for presenting, collating and assessing information from the various sources, and its incorporation in designed submissions.
 - f) Documentation control system.
 - g) The procedure for purchase of materials, parts, components and selection of Sub-contractor's services including vendor analysis, source inspection, incoming raw-material inspection, verification of materials purchased etc.
 - h) The method of protection, storage, stock control and issue of materials at site.
 - i) System for shop manufacturing and site erection control including process controls and fabrication and assembly controls.
 - j) Inspection, sampling, testing, and acceptance procedures for plant and materials delivered to site.
 - k) Control of non-conforming items and system for corrective actions.
 - l) Inspection and test procedure both for manufacture and all site related works.
 - m) Control of calibration and testing of measuring and testing equipment.
 - n) System for quality audit and self-monitoring of QA Systems.
 - o) System for indication and appraisal of inspection status.
 - p) System for handling, storage and delivery to site.
 - q) Final inspection and certification of completed sections of work.
 - r) Site security procedures.
 - s) The recording and processing of variations to the Works and their incorporation on record drawings.
 - t) System for maintenance of records

u) Furnishing of quality plans for design & engineering, manufacturing and field activities detailing out the specific quality control procedure adopted for controlling the quality characteristics relevant to each item of work.

1.03.00 The Quality Assurance arrangements shall include the preparation of and adherence to documented quality plans. After approval by the SPM/DCPL Engineer the Quality Assurance arrangements shall form an integral part of the Contract. No changes shall be made without the prior written approval of the SPM Engineer.

1.04.00 The Bidder shall list his proposed sub-contractors and shall provide the following information in respect of each sub-contractor:

- a) The items which the Bidder proposes to sub-contract.
- b) The basis on which the Bidder has assessed, or proposes to assess, the quality assurance arrangements of the sub-contractors.
- c) How sub-contractors' quality plans/procedures will be approved, monitored and audited on site during the Contract period.
- d) The results of any recent evaluations and audits of the sub-contractor which have been performed by the Bidder or other organizations external to the sub-contractor.

The Bidder shall also state the level of detail of the Quality Plan proposed for each sub-contracted item.

The information supplied in response to the above in the Tender shall be deemed a part of the Bidder's proposed Quality Assurance arrangements.

1.05.00 The Contractor shall provide documentation in such a manner that the SPM Engineer is thereby enabled to satisfy himself as to the effectiveness with which the Contractor is implementing those provisions of the agreed and accepted Quality Assurance arrangements which relate to the monitoring by the Contractor to sub-tier Quality Assurance arrangements.

1.06.00 Audits of sub-tier Quality Assurance arrangements shall be recorded in such a manner that the relevant documentation constitutes, inter alia, objective evidence of the extent of the audits and of the effectiveness with which they have been conducted. All such documentation relating to any one audit shall be made available to the Engineer, on request, as a single self-contained document or as one discrete self-contained package of documents.

1.07.00 **General Requirements - Quality Assurance**

1.07.01 All materials, components, equipment and systems covered under this specification shall be procured, manufactured, erected, commissioned and tested at all the stages, as per a comprehensive Quality Assurance Program. Inspections, and tests at works including shop performance tests and test at site for all equipment and systems shall be as per respective codes and standards and also as required in the specification.

- 1.07.02 Bidder shall furnish a detailed and exhaustive list of all inspections and tests that he or his sub-contractors shall carry out at works and at site for all equipment and systems covered under this specification. The list shall have to be approved by the DCPL/SPM before Award of Contract.
- 1.07.03 The Quality Plan for design and engineering shall cover the procedure for independent verification, validation and assessment of designs in terms of fitness for purpose, constructability, safety, compliance with standards, maintenance requirements, cost effectiveness etc.
- 1.08.00 The detailed Quality Plans for manufacturing and field activities (where applicable) shall be drawn up by the Bidder separately and shall be submitted to DCPL/SPM for approval. Schedule of finalization of such Quality Plans shall be finalized before award of Contract.
- 1.08.01 Manufacturing Quality Plan will detail out for all the components and equipment, various tests/inspections to be carried out as per the requirements of this specification and standards mentioned therein and quality practices and procedures followed by Contractor's Quality Control organization, the relevant reference documents and standards, acceptance norms, inspection documents raised etc., during all stages of materials procurement, manufacture, assembly and final testing/performance testing.
- 1.08.02 Field Quality Plans will detail out for all the equipment, the quality practices and procedures etc. to be followed by the Contractor's site Quality Control organization, during various stages of site activities from receipt of materials/equipment at site.
- 1.09.00 The Bidder shall also furnish copies of the reference documents/plant standards/acceptance norms/tests and inspection procedure etc., as referred in Quality Plans along with Quality Plans. These Quality Plans and reference documents/standards etc. shall be subject to DCPL/SPM's approval without which manufacture shall not proceed. These approved documents shall form a part of the Contract. In these approved Quality Plans, DCPL/SPM representative shall identify Customer Hold Points (CHP). A Customer Hold Point signifies a stage in any item of work which requires documented proof of approval based on tests/checks which shall be carried out in presence of the SPM/DCPL's Engineer or his authorized representative and beyond which the work shall not proceed without consent of SPM/DCPL in writing.
- 1.10.00 The Contractor shall submit to the Engineer complete field welding schedule for all field welding activities for approval. The field welding schedule shall be submitted along with all supporting procedures like welding procedures, heat treatment procedures, NDT procedures etc.
- 1.11.00 No material shall be dispatched from the manufacturer's works before the same is accepted subsequent to pre-dispatch final inspection including verification of records of all previous tests/inspections by SPM/DCPL's Engineer, and duly authorized for dispatch.

- 1.11.01 Quality assurance/Inspection group of SPM/DCPL would issue a Material Dispatch Clearance Certificate (MDCC) after the inspection clearance which will enable the Contractor to dispatch the equipment and claim the payment.
- 1.12.00 All materials used or supplied shall be accompanied by valid and approved materials certificates and tests and inspection report. These certificates and reports shall indicate the sheet numbers or other such acceptable identification numbers of the material. The material certified shall also have the identification details stamped on it.
- 1.13.00 Castings and forgings used for construction shall be of tested quality. Details of results of chemical analysis, heat treatment record, and mechanical property test results shall be furnished.
- 1.14.00 All welding and brazing shall be carried out as per procedure drawn and qualified in accordance with requirements of ASME Section-IX/BS-4870 or other International equivalent standard acceptable to the DCPL/SPM.
All brazers, welders etc. employed on any part of the contract at Contractor's/Sub-Contractor's works or at site shall be qualified as per ASME Section-IX or BS-4871 or equivalent international standards. Such qualification tests shall be conducted in presence of SPM/DCPL's Engineer.
- 1.15.00 All non-destructive examinations (NDT) shall be carried out in accordance with approved international standard. The NDT operator shall be qualified as per SNT-TC-IA (of American Society of non- destructive examination). Results of NDT shall be properly recorded and submitted to SPM/DCPL.
- 1.16.00 All the sub-vendors proposed by the Contractor for procurement of equipment, material and services and their quality assurance plans shall be subject to DCPL/SPM's approval.
- 1.16.01 The list of all major sub-contractors would be submitted along with the Tender and this shall be mutually discussed and agreed to at the time of award of Contract. Regarding the various other minor sub-vendors, the list would be submitted within six (6) months of the award of the Contract and shall be mutually discussed and agreed to.
- 1.17.00 All the purchase specifications for the major bought-out items, list of which shall be drawn up by the Contractor and finalized with the DCPL/SPM shall be furnished to the DCPL/SPM for comments and subsequent approval before orders are placed.
- 1.18.00 SPM reserves the right to carry out quality audit and quality surveillance of the systems and procedures of the Contractor's or their sub vendor's quality management and control activities. The Contractor shall provide all necessary assistance to enable the SPM carry out such audit and surveillance.
Quality audit/approval of the results of tests and inspection shall not prejudice the right of the SPM to reject any equipment not giving the desired performance after erection and shall not in

any way limit the liabilities and responsibilities of the Contractor in earning satisfactory performance of equipment as per specification.

1.19.00 Quality requirements for main equipment shall equally apply for spares and replacement items.

1.20.00 Repair/rectification procedures to be adopted to make any job acceptable shall be subject to the approval of the DCPL/SPM.

1.21.00 **Quality Assurance Document**

1.21.01 The Contractor shall be required to submit two (2) copies and two (2) sets of electronic files of the following Quality Assurance documents within three (3) weeks after dispatch of the equipment:

- a) Material mill test reports on components as specified by the specification.
- b) The inspection plan with verification, inspection plan check points, verification sketches, if used and methods used to verify that the inspection and testing points in the inspection plan were performed satisfactorily.
- c) Non-destructive examination results/reports including radiography interpretation reports.
- d) Factory tests results for testing required as per applicable codes and standards referred in the specification.
- e) Welder identification list listing welders and welding operator's qualification procedure and welding identification symbols.
- f) Sketches and drawings used for indicating the method of traceability of the radiographs to the location on the equipment.
- g) Stress relief time temperature charts.
- h) Inspection and test reports duly signed by QA personnel of the SPM and Contractor for the agreed customer hold points. During the course of inspection, the following will also be recorded:
 - i) When some important repair work is involved to make the job acceptable.
 - ii) The repair work remains part of the accepted product quality.
 - iii) Letter of conformity certifying that the requirement is in compliance with finalized specification requirements.

1.22.00 **Inspection, Testing and Inspection Certificates**

The Bidder shall communicate to the SPM prior to the readiness of the material to arrange visit of representative for pre dispatch inspection. The inspection will be carried out for five working days by five authorized representatives of the SPM for monitoring the progress of the various facilities of the machine at the suppliers work.

- 1.22.01 The Engineer, his duly authorized representative and/or an outside inspection agency acting on behalf of the SPM shall have access at all reasonable times to inspect and examine the materials and workmanship of the works during its manufacture or erection and if part of the works is being manufactured or assembled on other premises or works, the Contractor shall obtain for the Engineer and for his duly authorized representative permission to inspect as if the works were manufactured or assembled on the Contractor's own premises or works.
- 1.22.02 The Contractor shall give the Engineer/Inspector fifteen (15) days written notice of any material being ready for testing. Such tests shall be to the Contractor's account except for the expenses of the Inspector. The Engineer/Inspector, unless the witnessing of the tests is virtually waived, will attend such tests within fifteen (15) days of the date on which the equipment is notified as being ready for test/inspection failing which the Contractor may proceed with test which shall be deemed to have been made in the Inspector's presence and he shall forthwith forward to the Inspector duly certified copies of test reports in six (6) copies.
- 1.22.03 The Engineer or Inspector shall within fifteen (15) days from the date of Inspection as defined herein give notice in writing to the Contractor, or any objection to any drawings and all or any equipment and workmanship which is in his opinion are not in accordance with the Contract. The Contractor shall give due consideration to such objections and shall either make modifications that may be necessary to meet the said objections or shall confirm in writing to the Engineer/Inspector giving reasons therein, that no modifications are necessary to comply with the contract.
- 1.22.04 When the factory tests have been completed at the Contractor's or sub-contractor's works, the Engineer/Inspector shall issue a certificate to this effect fifteen (15) days after completion of tests but if the tests are not witnessed by the Engineer/ Inspectors, the certificate shall be issued within fifteen (15) days of the receipt of the Contractor's test certificate by the Engineer/Inspector. Failure of the Engineer/Inspector to issue such a certificate shall not prevent the Contractor from proceeding with the works. The completion of these tests or the issue of the certificates shall not bind the SPM to accept the equipment should it, on further tests after erection be found not to comply with the Contract.
- 1.22.05 In all cases where the contract provides for tests whether at the premises or works of the Contractor or any sub-contractor, the Contractor, except where otherwise specified shall provide free of charge such items as labour, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably demanded by the Engineer/Inspector or his authorized representatives to carry out effectively such tests on the equipment in accordance with the Contractor and shall give facilities to the Engineer/Inspector or to his authorized representative to accomplish testing.
- 1.22.06 To facilitate advance planning of inspection in addition to giving inspection notice, the Contractor shall furnish quarterly inspection programme indicating schedule dates of inspection at customer hold points and final inspection stages. Updated quarterly inspection plans will be made for each three consecutive months and shall be furnished before beginning of each calendar month.

1.23.00 Archiving

In addition to the requisite number of hard copies as specified, four (4) copies of all quality assurance documents, final inspection and test certificates etc. shall be made available to the SPM in Compact Disks before handing over of the plant.

QUALIFICATION/ELIGIBILITY CRITERIA

.....Not Applicable.....

TENDER FORM

To

.....
.....
.....

(Complete address of SPM)

Ref: Your Tender document No.dated

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..... (Description of goods and services) in conformity with your above referred document for the sum of as quoted in price bid (total tender amount in figures and words), as shown in the price schedule(s), 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 upto -----, 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 and on behalf of (With seal) Signature

Name
In the capacity of
(DULY AUTHORISED TO SIGN THE BID)

PRICE SCHEDULE

Name of Bidder :

Offer No. & Date :

Plant/ Item :

SPM's Enquiry Ref. :

PART - A						
Quoted Price of Supply Items (for SPM, Hoshangabad)						
SL. NO.	SUPPLY ITEM	DETAILED SPECIFICATION	SIZE (mm NB)	Quantity as per Spec.	UNIT RATE (Rs.)	AMOUNT (Rs.)
1	Ball Valve with counter flanges, nuts & bolts	Ref. Schedule of Miscellaneous Items in Appendix - B	80	12		
2	Ball Valve with counter flanges, nuts & bolts		65	7		
3	Ball Valve with counter flanges, nuts & bolts		50	7		
4	Butterfly Valve with counter flanges, gaskets, nuts & bolts		250	1		
5	Butterfly Valve with counter flanges, gaskets, nuts & bolts		200	1		
6	Gate valve		20	4		
7	Pipe		15	6		
8	Equal Tee		50	20		
9	Equal Tee		50	15		
10	Equal Tee		65	6		
11	Con. Reducer		80x50	4		

PART - A						
Quoted Price of Supply Items (for SPM, Hoshangabad)						
SL NO	SUPPLY ITEM	DETAILED SPECIFICATION	SIZE (mm NB)	Quantity as per Spec.	UNIT RATE (Rs.)	AMOUNT (Rs.)
12	Stub End	Ref. Schedule of Miscellaneous Items in Appendix - B	200	1		
13	Emergency shower		25	2		
14	Emergency eye wash		25	2		
15	Hose		80x3.5m	2		
16	Hose		65x3.5m	1		
17	Hose		50x3.5m	1		
18	U.V. Disinfectant		-	1		
19	Vibrating Fork Liquid Level Switch		-	2		
20	Packing & Forwarding charges					
21	Freight charges (Including Unloading)					
22	Taxes & Duties and other charges as					
	TOTAL	Total of Sl. No. 1 to 22				

B. SERVICES		
1.	Complete Erection & commissioning and Testing of the total as mentioned in Section IX Part A items.	
2.	Taxes & Duties and other charges as applicable (if any)	
3.	Total Price of Services (1+2)	
Total Amount in words: Rupeesonly.		
GRAND TOTAL (A+B) = `		
Grand total amount in words: Rupees.....only.		

Note:-

1. Cost of fabrication and erection & commissioning of the above items should be inclusive of cost of sandblasting, cleaning and painting as per requirement of the specification.
2. The method of evaluation of L1 criteria for awarding the Contract shall be on consolidated offer by the bidder and will be decided taking into consideration of total offered price including Part (A+B) as above.

Bidder's Signature _____

QUESTIONNAIRE

The tenderer should furnish specific answers to all the questions/ issues mentioned below. In case a question/ issue does 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.

1. Brief description of Work and services offered:

2. Your permanent Income Tax A/C No. as allotted by the Income Tax Authority of Government of India :

Please attach certified copy of your latest /current Income Tax clearance certificate issued by the above authority.

4. Status:

a) Are you currently registered with the Directorate General of Supplies & Disposals (DGS&D), New Delhi, and/or the National Small Industries Corporation (NSIC), New Delhi, and/or the present SPMICL and/or the Directorate of Industries of the concerned State Government for the 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, 1956 or ant other similar Act ?

Please attach certified copy(s) of your registration status etc. in case your answer(s) to above queries is in affirmative.

5. Please indicate name & full address of your Banker(s) :

6. Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Deptt. of Government of India or by any State Govt.

.....
(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)

BANK GUARANTEE FORM FOR EMD

Not applicable

MANUFACTURER’S AUTHORIZATION FORM

To

.....

.....

(Name and address of SPM)

Dear Sirs,

Ref. Your Tender document No. dated

We, Who are proven and reputable manufacturers of (name and description of goods offered in the tender) having factories at hereby authorize Messrs.(name and address of the agent) to submit a tender, process the same further and enter in to a contract with you against your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs.(name and address of the above agent) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We also hereby extend our full warranty, as applicable as per clause of the General Conditions of Contract read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this tender document.

Yours faithfully,

.....

(Signature with date, name and designation)

For and on behalf of Messrs.

(Name and address of the manufacturers)

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

_____ [insert: Bank’s Name, and Address of Issuing Branch or Office]

Beneficiary: _____ [insert: Name and Address of SPM]

Date: _____

PERFORMANCE GUARANTEE No.: _____

WHEREAS..... (name and address of the supplier) (hereinafter called “the supplier”) has undertaken, in pursuance of contract no..... dated to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier 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 supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, 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 supplier 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 the said debt from the supplier 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 supplier 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 SPM upto the above amount upon receipt of its first written demand, without SPM having to substantiate its demand.

This guarantee will remain in force for a period of forty five days after the currency of this contract 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

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

CONTRACT FORM

(Address of SPM's office issuing the contract)

Contract No..... dated.....

This is in continuation to this office' Notification of Award No.....dated

1. Name & address of the Supplier:
2. SPM's Tender document No..... dated..... and subsequent Amendment No....., dated..... (If any), issued by SPM
3. Supplier's Tender No..... dated..... and subsequent communication(s) No..... dated (If any), exchanged between the supplier and SPM 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) SPM'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 SPM'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 `)	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 SPM'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 SPM'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:

LETTER OF AUTHORITY FOR ATTENDING A BID OPENING

(Refer to clause 24.2 of GIT)

The General Manager
Security Paper Mill
Hoshangabad
M.P – 461 005

Subject : Authorization for attending bid opening on _____(date) in the Tender of _____.

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		
Signatures 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.

SHIPPING ARRANGEMENTS FOR LINER CARGOES

Not applicable

PROFORMA OF BILLS FOR PAYMENTS

(Refer Clause 22.6 of GCC)

Name and Address of the Firm.....

Bill No..... Dated.....

Purchase order No..... Dated.....

Name and address of the consignee

S.No.	Authority for purchase	Description of Stores	Number or quantity	Rate	Price per	Amount
Total						

1. C.S.T./Sales Tax Amount
2. Freight (if applicable)
3. Excise Duty (if applicable)
4. Packing and Forwarding charges (if applicable)
5. Others (Please specify)
6. PVC Amount (with calculation sheet enclosed)
7. (-) deduction/Discount
8. Net amount payable (Rupees in Words)

Despatch detail:

RR No. /other proof of despatch..... Dated..... (enclosed)

Inspection Certificate No..... Dated..... (enclosed)

Modvat Certificate No (enclosed)

Excise Duty Gate pass..... (enclosed)

Received `..... (Rupees in Words).....

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.

Revenue stamp

Signature and of Stamp Supplier

<u>SL.</u>	<u>DRAWING NO.</u>	<u>TITLE / DESCRIPTION</u>
<u>NO.</u>		
1.	DWG No. G0005410-FS8	Sodium Hydroxide unloading and storage
2.	DWG No. G0005410-FS9	Sulphuric Acid unloading and storage
3.	DWG No. 11P01-DWG-P-181-200	General Arrangement – Plan & Piping

VOITH flowsheet
1.31-071407

VOITH flowsheet
1.31-071407

VOITH flowsheet
1.31-071409

cooling water (fresh water) 3 bar gauge

cooling back water 4 bar gauge

compressed air 5.5-6 bar gauge

MAIN PIPES, PIPE PARTS
AND MOUNTING PARTS
CUSTOMER DELIVERY

DN 40 50 my 30-35°C max. 200l/min discontinuous

DN 100 50 my 40-45°C

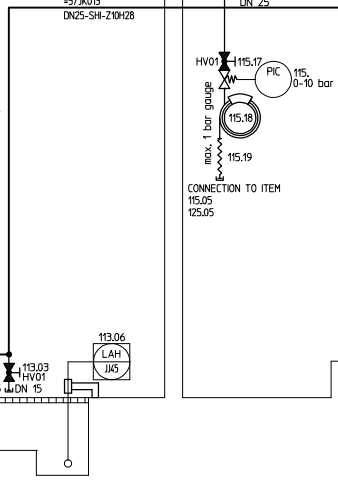
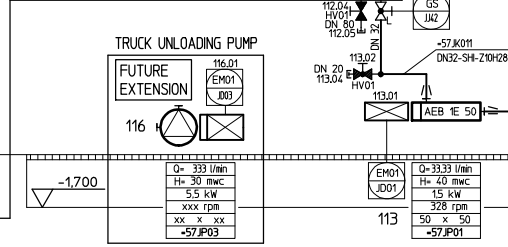
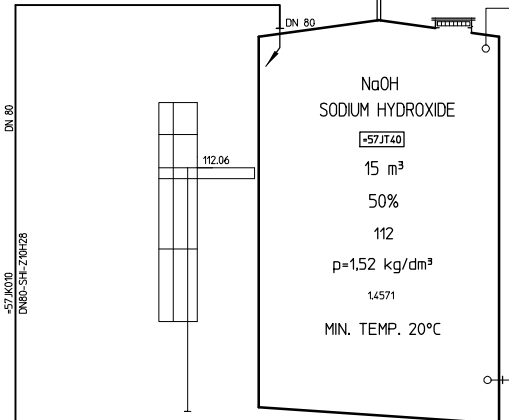
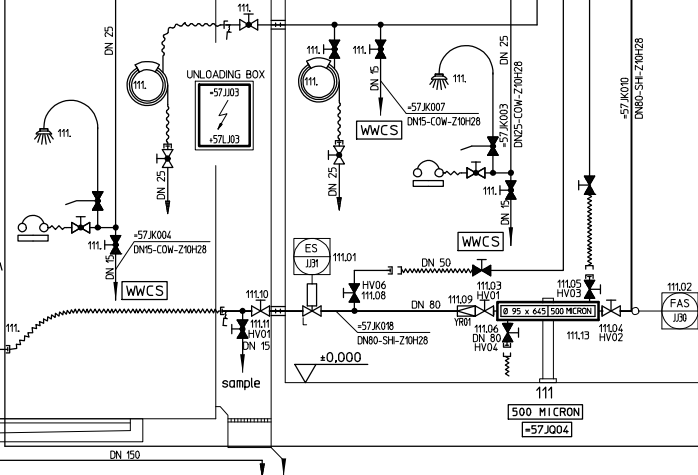
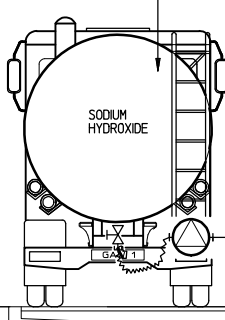
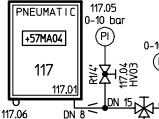
DN 20

DN40

DN10

DN20

DELIVERY BY CUSTOMER
ENGINEERING BY GAW



UNLOADING STATION

STORAGE

-1.200

-1.700

washup water collection system

±0.000

500 MICRON

±0.333 l/min

H= 40 mwc

N= 15 kW

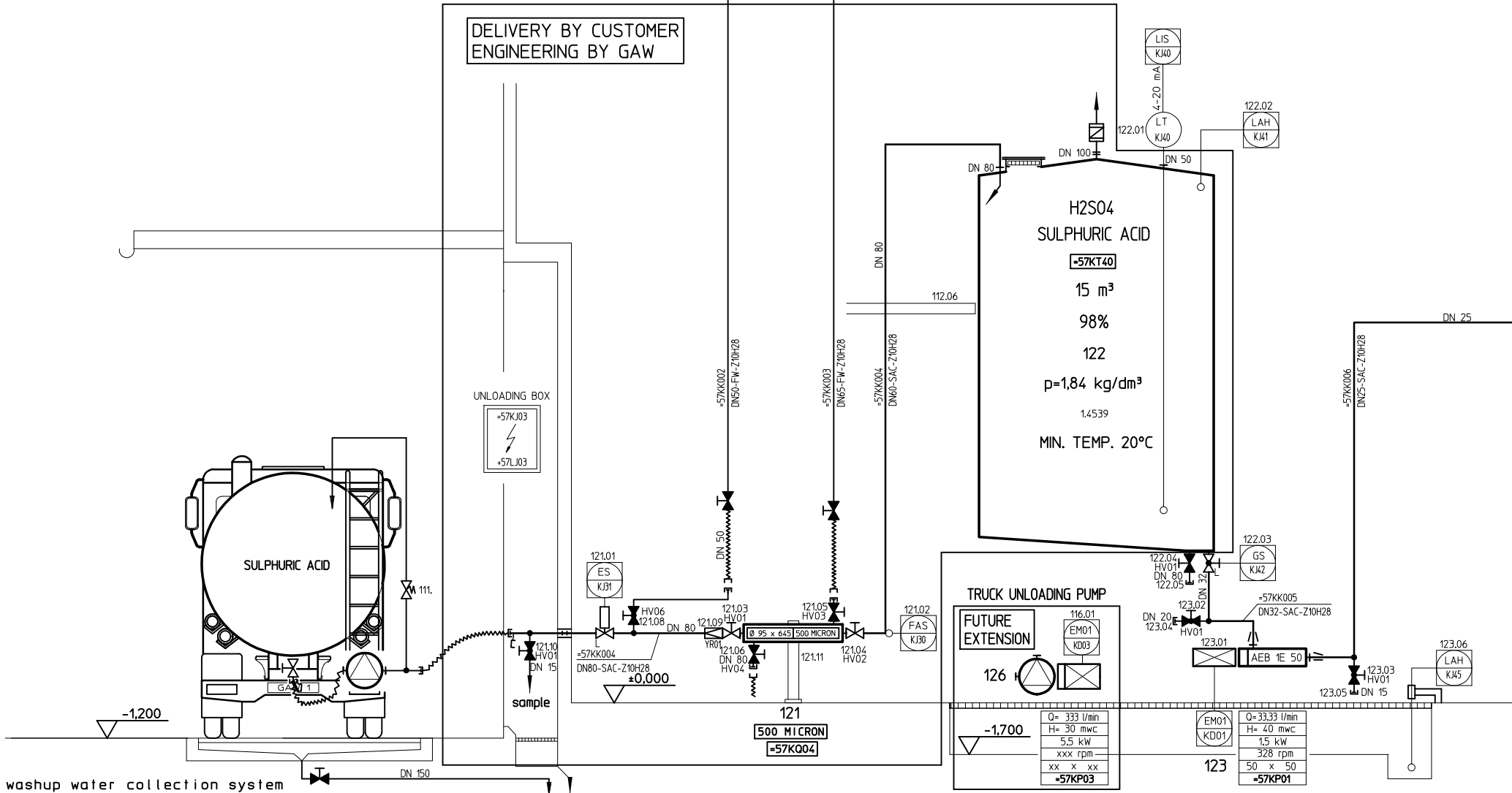
n= 328 rpm

50 x 50

-57.F01

VOITH flowsheet 1.31-071407	cooling water (fresh water)	3 bar gauge	DN 40	50 my	30-35°C	max. 200l/min discontinuous	DN40-COW-Z10H28
VOITH flowsheet 1.31-071407	cooling back water	4 bar gauge	DN 100	50 my	40-45°C		DN100-FW-Z10H28
VOITH flowsheet 1.31-071409	compressed air	5,5-6 bar gauge	DN 20				DN20-MA-Z10H28
MAIN PIPES, PIPE PARTS AND MOUNTING PARTS CUSTOMER DELIVERY							

DELIVERY BY CUSTOMER
ENGINEERING BY GAW

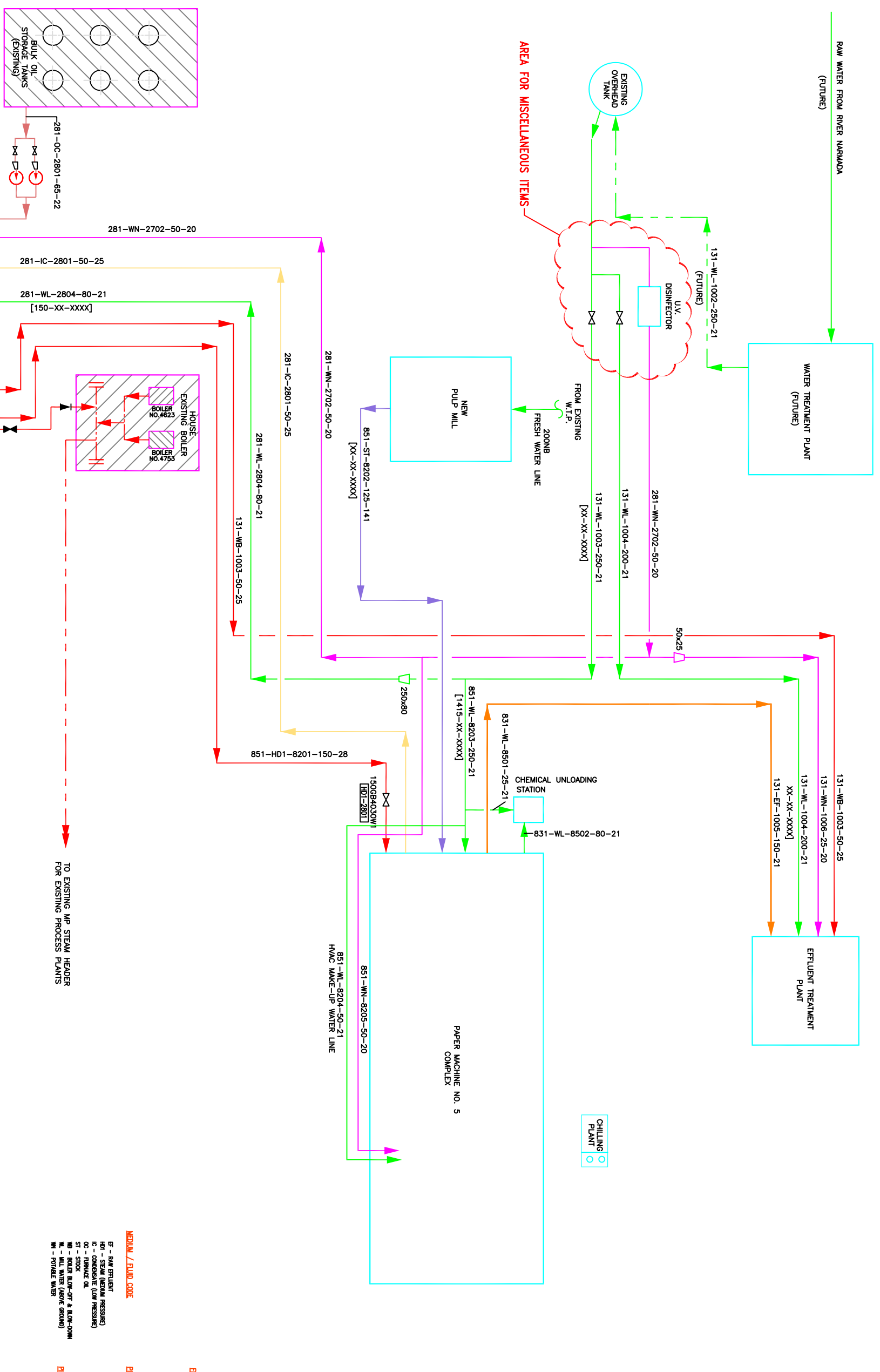


UNLOADING STATION

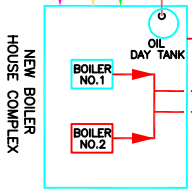
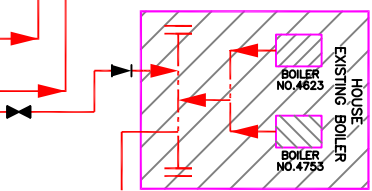
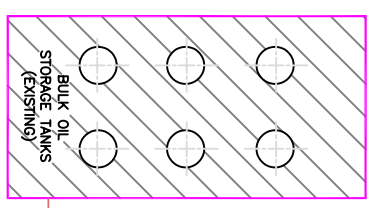
STORAGE

Q= 333 l/min
H= 30 mwc
5.5 kW
xxx rpm
xx x xx
-57KP03

Q= 33.33 l/min
H= 40 mwc
1.5 kW
328 rpm
50 x 50
-57KP01



AREA FOR MISCELLANEOUS ITEMS



APPROV.	MECH.	INST.	ELEC.	STRUC.	ARCH.

REVIEWED	DATE	SIGNATURE

RELEASE STATUS	DATE	SIGNATURE

1st LETTER	2nd & SUBSEQUENT LETTERS
A - ANALYSIS	A - ALARM
C - CONTROL	C - CONTROL
D - DESIGN	D - DESIGN
E - ELECTRICAL	E - ELECTRICAL
F - FLOW	F - FLOW
G - GAS	G - GAS
H - HAND	H - HAND
I - INSTRUMENT	I - INSTRUMENT
L - LINE	L - LINE
M - MATERIAL	M - MATERIAL
N - NIPPLE	N - NIPPLE
O - OIL	O - OIL
P - PRESSURE	P - PRESSURE
R - RECORD	R - RECORD
S - SAFETY	S - SAFETY
T - THERM	T - THERM
V - VALVE	V - VALVE
W - WATER	W - WATER
X - UNKNOWN	X - UNKNOWN
Z - POSITION	Z - POSITION

SECURITY PAPER MILL
HOSHANGABAD, INDIA

NEW PM#5 & UPGRADATION PROJECT

DEVELOPMENT CONSULTANTS PVT. LTD.
CONSULTING ENGINEERS
KOLKATA, MUMBAI, CHENNAI, NEW DELHI

SCALE: 1:100
DATE: 27.04.12
JOB NO.: 11P01
REV. 2