

Name of the Client: **ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.**

ICHALKARANJI , DIST : KOLHAPUR .

**Water Supply Project For: "PARVATI CO-OP.INDUSTRIAL ESTATE SHAMRAO PATIL NAGAR
(YADRAV) TAL. SHIROL, DIST. KOLHAPUR. .**

**TENDER NO. 1: "SUPPLYING, ERECTING & COMMISSIONING PUMPING
MACHINERY & ACCESSORIES FOR STAGE I & II"**

1. ESTIMATED COST : **STAGE I Rs. 5,92,200/-**
2. EARNEST MONEY DEPOSIT: **Rs.6000/-**
3. INITIAL SECURITY DEPOSIT: **2%**
4. TOTAL SECURITY DEPOSIT : **7%**
5. TIME LIMIT. : TWO MONTHS.
6. TENDER COST : **Rs. 500/-**
- 7 .CONSULTING ENGINEER : ER. S. V. PATIL
Lift Irrigation Consultant,
Patil Associates, Anantshree Apartment,
100Ft. Road, Vishrambag Sangli 416 415
Ph: Office: (0233) 2301959, Fax: (0233) 2303769
Cell : 9823130031
8. NAME & ADDRESS OF
THE CONTRACTOR :
9. DATE OF ISSUE : 17th Dec. 2008 to 29th Dec. 2008.
10. LAST DATE OF SUBMISSION : 30th Dec. 2008 up to 2.00 P.M.

**ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.
ICHALKARANJI.**

**Upgradation of Infrastructure facilities at Textile Cluster, Ich. Maharashtra.
Project under Industrial Infrastructure Upgradation scheme (IIUS)-2003.**

Ministry of Commerce & Industry.

Government of India.

**TENDER DOCUMENTS FOR THE WORK OF—
Water Supply Project For Parvati Co-Op. Industrial
Estate Ltd. Shamrao Patil Nagar (Yadrav).**

**Supplying Erecting & Commissioning Pumping
Machinery and Accessories for Stage 1**

**ICHALKARANJI TEXTILE DEVELOPMENT
CLUSTER LTD., ICHALKARANJI.**

5/617, SWIMMING POOL PREMISES, NEAR VED BAVAN,
ICHALAKARNJI-416115. DIST.KOLHAPUR.(MAHARASHTRA). Phone
No. : (0230)2421009, FAX : (0230)2421143

ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.

5/617, Swimming pool Premises, Near Ved Bhavan, ICHALKARANJI-416115 DIST.KOLHAPUR (Maharashtra)

Phone: (0230) 2421009, Website: www.ichcluster.com Email : chairperson @ ichcluster.com

TENDER NOTICE

Sealed Percentage rate tenders are invited for the following works from reputed Experienced or Registered Contractors.

Sr. No.	Name of the Work	Estimated Cost In Rs. in lacs.	Earnest Money Deposited in Rs.	Period of Completion of work	Tender Form Cost In Rs.
1	Construction of compound wall at Sump and Pump House at in Gat No. 114	4.66	4700/-	2 Months	500/-
2	Supply & Erection of 16 Mtr. High Mast at Vikramnagar Chowk in Ichalkaranji.	5.48	5500/-	2 Months	500/-
3	Supplying, erecting & Commissioning pumping machinery and Accessories for Stage I For Parvati Co-op Industrial Estate, Yadrav.	5.92	6000/-	3 Months	500/-

1.

Blank Tender Forms, will be issued at cluster office between 17th Dec. 2008 to 29th Dec. 2008 on payment of tender form fee and fulfilling eligible criteria as per tender form

2. Sealed tenders will be accepted in cluster office on or before Tuesday, 30th Dec. 2008 up to 2.00 P.M. Tender will be opened on the same day at 4.00 P.M. in the presence of tenderers.

If any change in the date on tender opening it will be informed.

3 Ichalkaranji textile development cluster reserves the rights to reject any or all tenders without assign any reasons.

4 This Tender Notice & Tender Documents are also available at our website www.ichcluster.com

(G.R.Akiwate.)

Managing Director.

(Sou. Kishori P. Awade.)

Chairperson

Detail Tender Notice

Managing Director, Ichalkaranji Textile Development Cluster Ltd., Ichalkaranji invites sealed tender on two envelope system on prescribed formats from bonafied reputed experienced or Registered contractors who are qualifying following “Essential Qualifying Criteria”. Detail of execution of work is mentioned in Tender Notice.

Tender documents can also be downloaded from Company's website www.ichcluster.com and in such a case, the tenderer shall deposit the cost of tender documents along with submission of the tender, failing which his tender will not be opened. The cost of tender documents shall be deposited in the form of demand draft/pay order and enclosed in the envelope containing the Earnest Money Deposit. Tenderers are advised not to make any corrections, additions or alterations in the downloaded tender document. In case, any correction, additions or alterations in the downloaded standard documents are made, such tender shall not be considered.

Essential Qualifying Criteria

1. The Contractor should possess the experience of having successfully completed similar works during the last 3 years (ending last day of 31st March every year.) which should be any one of the following.
 - i) Three similar completed works each costing not less than amount equal to 30% of the estimated cost.
 - ii) Two similar completed works each costing not less than amount equal to 40% of the estimated cost.
 - iii) One similar completed works costing not less than amount equal to 65% of the estimated cost.

Notes:- Highway/ Road works with Earthwork, and culverts executed as per MORTH/MOST shall be considered as similar work (s). a work shall mean the work executed under one contractor.

2. The financial turnover during the last three years should be at least 30% of the estimated cost.

Notes:- the financial turnover shall be judged from ITCC or Annual reports including Profit and Loss A/c.
3. The Contractor should have its net worth not less than 10% of the estimated cost of the tender. This will be judged from the audited balance sheet of the last financial year ending on a date not prior to 18 months from the due date of submission of the tender.
4. The contractor should submit performance certificate in reference to S. No.1 (Minimum 3 Nos., 2 nos., or 1 n. as the case may be) above from clients for having successfully completed similar works in the last three years.
5. There should not be any unsatisfactory performance report of the contractor from any source.

: P R E F A C E (TENDER NO. 1) :

Name of the Client : ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.
ICHALKARANJI Dist : Kolhapur .

Name of the work : Water Supply Project. For “ PARAVTI CO-OP INDUSTRIAL ESTATE LTD.,
SHAMRAO PATIL NAGAR (YADRAV)”

Proposed to construct the following works for Water Supply Project for“ PARAVTI CO-OP
INDUSTRIAL ESTATE LTD., SHAMRAO PATIL NAGAR (YADRAV)” Tal Shirol, Dist Kolhapur.

**“SUPPLYING,ERECTING & COMMISSIONING PUMPING MACHINERY & ACCESSORIES
FOR STAGE I**

The Tender herein after is aimed at obtaining competitive Tenders from various intending Bidders.

2. All decisions as to award of Contracts, selection of Electrical & Mechanical will be made by the Client. All cost arising from the contractual Services will go to the account of the Client.
3. Er. S. V. Patil Consulting Engineer, Anat Shree Apartment, 100 Ft Road, Vishrambag Sangli will act as Designers for the Project. They will prepare all necessary Plans and audit the Invoices, Bills etc. They represent the client for the work under this contract. Without previously informing the Consulting Engineer, the proprietor/ Client will not give any directives pertaining to the construction, to contractors and suppliers and will not give any direct instructions to them.
4. The privilege of the Author & Ownership of Drawings & Designs of the project remains with the Consulting Engineer. Drawings and Designs prepared by them will be used only for the project specified in this contract.
5. The Consulting Engineer is authorised to ask the Contractor to discontinue any work which does not meet the expected and/or specified standards. Work already executed may be rejected and asked to be removed for the same reason.
6. The one who is awarded the contract will be the "CONTRACTOR."
7. The Contractor has to do his work according to the Drawings, Estimates and Specifications appended herewith and which together with the General Conditions, Technical Specifications, Bill of Quantities and the contract of Agreement, will be called ' DOCUMENTS OF THE CONTRACT.'
8. The work site of Jackwell I Stage is situated on the left bank of river Panchganga near Divate Panand, Ichalkaranji and the work site of Sumpwell & Pumphouse II Stage is situated in adjacent to Kolhapur Zilla Shetakari Vinakari Sah. Soot Girini Ltd., Ichalkaranji.

CONTRACTOR.

MANAGING DIRECTOR.

: T E N D E R (N o . 1) :

Name of the Client : ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.
ICHALKARANJI Dist : Kolhapur .

Name of the work : Water Supply Project. For “ PARAVTI CO-OP INDUSTRIAL ESTATE LTD.,
SHAMRAO PATIL NAGAR (YADRAV)”

Proposed to construct the following works for Water Supply Project for “PARAVTI CO-OP
INDUSTRIAL ESTATE LTD., SHAMRAO PATIL NAGAR (YADRAV)” Tal Shirol, Dist Kolhapur.

**“SUPPLYING, ERECTING & COMMISSIONING PUMPING MACHINERY & ACCESSORIES
FOR STAGE I”.**

TENDER IS TO BE SUBMITTED ON OR 30th Dec. 2008 UPTO 2.00 P.M. AT THE OFFICE
OF THE Client at Ichalkaranji , Tal: Hatkanangle, Dist: Kolhapur.

1. Having examined the instructions for Tenderers, The Drawings, General Conditions of the Contract, specifications, SCHEDULE-A & Bill of Quantities for the construction & execution of the above named works & having visited and inspected the site, I/we the undersigned Offer to construct and complete the whole of the said works in conformity with said Drawings, General conditions of Contract and specifications at the rates or prices inserted in the Bill of quantities herewith submitted subjected to percentage if any mentioned in "SCHEDULE-B".
2. I/We undertakes, if our Tender is accepted to complete and deliver the works comprised in the contract within Two Calendar months, from the date order to commence the work.
3. I/We have inserted in Appendix, the details and particulars of works carried out, works in hand, Tools & plants etc.
4. I/We deposit herewith a sum as specified in the Memorandum towards Earnest-Money Deposit, bearing no interest, to the understanding that, this sum will be forfeited in the event of your acceptance of our Tender and we fail to execute the contract, when called upon to do so.
5. Unless and until a formal Agreement is executed, this Tender together with your written acceptance thereof shall constitute a binding contract between us.
6. If our Tender is accepted , we will deposit a sum as stated in the Memorandum here to, in the form as specified in the instructions for Tenderer, bearing no interest, as Security Deposit for the due performance of the contract.
7. I/We also agree for deductions @ 7 % from interim payments till completion of the balance payment of Security Deposit.
8. I/We agree to abide by this Tender offer for the period of Two calendar months from the date fixed for receiving the same and it shall remain binding upon us at any time before expiry of that period.
9. We understand that, you are not bound to accept the lowest or any Tender you may receive, without assigning any reason to do so.

CONTRACTOR.

DATE :

Name & Address:

PLACE :

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CONTRACTOR.

MANAGING DIRECTOR.

Name of the Client : ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.
ICHALKARANJI Dist : Kolhapur .

Name of the work : Water Supply Project. For ” Parvati Co-op Industrial Estate Shamrao Nagar (Yadrav)
Tal : Shirol, Dist Kolhapur.

Proposed to construct the following works for Water Supply Project for” Parvati Co-op Industrial Estate
Shamrao Nagar (Yadrav) Tal : Shirol, Dist Kolhapur.”

**“SUPPLYING, ERECTING & COMMISSIONING PUMPING MACHINERY & ACCESSORIES
FOR STAGE I & II”.**

MEMORANDUM

1. Estimated Cost. : Rs. 5,92,200/-
2. Earnest Money Deposit. : Rs. 6,000/-
3. Initial Security Deposit. : 2%
4. Total Security Deposit. : (3+7)%
5. Value of Interim Certificate. : Rs. 2,00,000/-
6. Period of completion of work. : TWO Calander Months incl. Monsoon.
7. Period for honouring Interim Certificates. : Eight Days.
8. Compensation for Non-completion of work within Time Limit. : Rs. 1,000/- per Day . To a maximum limit of 5% of Contract Value.
9. Period for recording final Measurements. : ONE Month.
10. Defects Liability period after completion of work. : TWELVE Months.

CONTRACTOR.

MANAGING DIRECTOR.

INSTRUCTIONS TO THE TENDERERS

1: **GENERAL:**

The Tenderer should examine carefully the General conditions of the Contract including ANNEXTURE if any, the specifications & the Drawings supplied herewith. He should visit & inspect the site at his own responsibility & Expenses and obtain all the information which may be necessary for the purpose of submitting the Tender.

2: **FIRM OR COMPANY:**

In the event of the Tender being submitted by a Firm or a Company, it must be signed separately by each partner thereof or it shall be signed in the name of Firm/Company by one of the partner or by person, holding a power of Attorney, authorising him to do so.

3: **RATES & PRICES :**

The rates & prices set down by the Tenderer against the Items in the SCHEDULE-B or the percentage tendered in case of B-1 Tender, shall be the full value of the finished work described thereunder and shall cover profit, overheads & all obligations of every type, which under the contract are to be borne by the Contractor. Under no circumstances shall the contractor be entitled to claim enhanced rates for any Item in this contract.

4: **EARNEST MONEY DEPOSIT:**

The Tender shall be accompanied by the required amount of EARNEST MONEY DEPOSIT in the form of DEMAND DRAFT OR SHORT TERM DEPOSIT for a minimum period 90 Days, issued by any Nationalised/ Scheduled Bank in favour of the Client.

Earnest Money Deposit in any other form as cash, Cheque or Deposit at Call Receipt or Bank Guarantee will not be accepted.

5: **SECURITY DEPOSIT:**

The Successful Tenderer will have to pay an Initial Security Deposit by Demand Draft in favour of the "CLIENT" within 10 Days of receipt of intimation from the accepting Authority. The balance amount of Security Deposit if any will be recovered from Interim Bills at percentage mentioned in the Tender, so as to make up the full amount of Security Deposit as specified in MEMORANDUM.

If the Tenderer fails to pay an Initial Security Deposit within specified time, his tender may be rejected and an amount of Earnest Money Deposit will be forfeited.

6: **QUANTITIES:**

The quantities set out in the SCHEDULE-B are approximate and their accuracy shall in no way affect the validity of the Tender or of any Contract, based thereon. The total amount of various Items set out in the SCHEDULE-B at the rates or prices inserted is required solely for the purpose of facilitating the comparison of the various Tenders received and shall not be deemed to be actual sum which is to be paid to the Contractor for the execution of the work. The actual sum to be paid to the contractor whose Tender is accepted will be determined by measuring the actual work done in accordance with the contract and valuing it at the rates or prices inserted in the SCHEDULE-B.

CONTRACTOR.

MANAGING DIRECTOR.

INSTRUCTIONS TO THE TENDERER

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7: **AGREEMENT:**

The Contractor whose Tender is accepted will be required to enter into an Agreement in the approved form by the Client/ Financing Authority.

8: **ALTERATIONS/CONDITIONS BY THE CONTRACTOR:**

No unauthorised alterations are to be made in the Tender Form or any accompanying documents by the Tenderer. If any such Alterations is made or if the SCHEDULE-B is not properly filled in or if these instructions are not fully complied with the Tender may be rejected. Only unconditional Tender will be considered for an acceptance.

9: **SOLVENCY CERTIFICATE:**

Unregistered contractors should produce Solvency Certificate of the Value not less than 20% of the Tender cost from any Nationalised/Scheduled Bank and should be attached with the Tender.

10: **FILLING OF "SCHEDULE-B":**

The Item wise rates tendered in SCHEDULE-B Shall be written in ink and both in words & in figures. The amount written in words shall be taken as valid.

In case of B-1 Tender, the tenderer should quote the percentage both in words and figures. Where the percentage in words differs from the figures, the former will be taken as valid.

Every page of the Tender, contract documents, specifications, Drawings, SCHEDULE-B etc. should be signed by the Tenderers at the bottom left corner. APPENDIX if any enclosed in this Tender Document, forms the part of the Tender. The tenderer should fill up all the blank spaces in the Tender Form and APPENDIX.

11. **INCOME TAX:**

Income Tax at the rates recommended by the Authority on the gross amount of the Bill will be recovered from each Bill, unless a certificate for exemption is produced from the Income-Tax Authority.

12. **SEALED TENDERS:**

The Tenderer has to submit his tender in two different Envelopes which are to be finally sealed into Third Envelope. Each Envelope should be addressed to the "CLIENT" mentioning thereon the name of the work, Name & Address of the Tenderer.

CONTRACTOR.

MANAGING DIRECTOR.

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INSTRUCTIONS TO THE TENDERERS

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The Sealed Envelope No.1 should contain :

- a: The letter addressed to the Client mentioning therein enclosures and explanations about Tender if any.
- b: The Earnest Money Deposit in the form of DEMAND DRAFT or Short Term Fix Deposit Receipt.
- c: The Contractor's Registration Certificate or Solvency Certificate in case of unregistered Contractors.
- d: Income Tax Clearance Certificate or exemption Certificate from Income Tax Officer.
- e: Certificate of Govt. Electrical License in case of Tender for Machinery work.
- f: In case of Firm or Company, copy of Partnership Deed & Power of Attorney.
- g: Details of other works tendered for & works in hand on the last date of submission.
- h: Details of other works of similar type & magnitude carried out by the contractor along with necessary Certificates.
- i: List of Machinery, Tools & Plants available with the Tenderer for use on the work.
- j: Details of Technical personnel with their experience, with the Tenderer.

The Sealed Envelope No. 2 should contain :

Filled in Tender along with copy of the decisions if any taken before submission of Tender.

The Tenders are to be submitted in the office of the Client/ Consulting Engineer as mention in the Tender-Notice before specified time.

13: RIGHT FOR REVISION/AMENDMENT/ACCEPTANCE:

The Right is reserved by the Client to revise or amend the Contract documents prior to the date notified for receipt of the Tender or the extended date above said. Such revisions Amendments or extensions if any shall be communicated to all concerned in the form of Addendum, corrigendum or by Notice in the press as may be considered suitable.

Right to accept any or to reject all the Tenders without assigning any reason thereof is reserved by the Client.

14: VALIDITY:

Offer tendered by the Tendered should valid for a period of 90 Days from the last date of submission of Tender.

CONTRACTOR.

MANAGING DIRECTOR.

GENERAL CONDITIONS OF CONTRACTS

1) DRAWINGS BY THE CONSULTING ENGINEER:

The Consulting Engineer will work out all necessary Drawings except those stated below, which have to be prepared by the respective Contractor and shall be deemed to have been included in the Quotation/Tender.

The Consulting Engineer will give to the Contractor free of charge Two Sets of all Drawings, necessary for the construction. Other prints can be obtained from the Consulting Engineer against receipt of extra cost.

In case, the contractor has any ambiguities with regards to these drawings or finds it necessary to have changes made therein, he should inform the Consulting Engineer well in time and upon his failure to do so, will be liable for all consequences arising thereof. The Contractor is further more to inform the Consulting Engineer in writing well in time if any plans he may need, have not been furnished to him yet.

The Contractor is bound to review all Drawings as to their correctness. By signing contract he assumes full responsibility for the project and its construction and is accordingly liable in all respects for performance thereof.

In case of any discrepancy between the type of working drawings on one hand and wording of the corresponding Item and specifications thereof as per the Contract, the later will be deciding for the purpose of actual execution of Items. However the Consulting Engineer's decision in this matter will be final.

DRAWINGS BY THE CONTRACTOR:

The drawings to be prepared by the contractor are as follows:

- a: All drawings for shuttering and bar bending Schedules and bending lists based on reinforcement Drawing, furnished by the Consulting Engineer. All Drawings prepared by the contractors for shuttering and reinforcements bending as stated above, shall have to be approved by the Consulting Engineer before the execution of the work.
 - b: All Drawings which are or would be entirely necessary to explain the monthly progress of work.
 - c: All Steel fabrication Drawings necessary for the execution of job.

 - a) In case, the Contractor wishes to suggest any alternative, he has to provide the necessary Drawings for the same. These Drawings will be checked by the Consulting Engineer for approval. In case, the Consulting Engineer approves or rejects these Drawings and alternative thereto, the Contractor shall not be entitled any claim whatsoever.
 - b): All as such Drawings for Services and installations.
- 2) In case of B-1 Tender, contractor should quote the percentage below or above at the appropriate place.
In case of B-2 Tenders, contractor should quote rate against quantities shown and work out the total amount. Wherever quantities are not given, only rate is to be quoted, so as to enable the client to select the alternative Item.
- 3) The quantities specified in the SCHEDULE are only approximate and may vary either way to any extent or may be omitted. No claims, demands of compensation or increased rates shall be entertained for such variations.
- 4) The rates mentioned and offer tendered by the Contractor shall be firm and deemed to be inclusive of all taxes such as SALES TAX, EXCISE DUTY, TURNOVER TAX, OCTROI, WORKS CONTRACT TAX. etc. as applicable on the last date of submission of the Tender and are rates at the site of work. Any variations in the Tax structure after due date of submission will be on Client's Account. Price escalation on any account will not be considered.

GENERAL CONDITIONS OF CONTRACTS

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- 5) The works covered by this Contract shall be carried out in accordance with the relevant specifications, contained in the Books of STANDARD SPECIFICATIONS, published by the Government and as per the latest Edition and Relevant "Indian Standard Specifications" subject further to the attached Specifications, where these Two contradicts, the later will be applicable.
- 6) Client has reserved to get execute any of the Item mentioned in the Tender, from either departmentally or from the other Contractor, if found necessary, as decided by the Consulting Engineer.
- 7) All Tools, plants, Equipment's etc. required for the execution of the contract work are to be arranged by the Contractor, for which no extra payments or depreciation will be made to the contractor.
- 8) Unless otherwise specifically mentioned in various Tender Items in SCHEDULE-B or Bill of Quantities, the item shall be deemed to cover all lifts and leads required for execution of the work as per approved Drawings and no extra claims for additional lifts or lead shall be entertained. If no specific lead is mentioned in the Tender Item, it shall be considered to cover a lead of 150 m.
- 9) The rates quoted in the SCHEDULE-B shall be taken as inclusive of all cost of dewatering Job required from beginning till completion of the work, unless there is separate Tender Item of Dewatering.
- 10) The words " Approved for construction" or " Approved as noted" shall be deemed to convey the approval of the Consulting Engineer to the execution of the work as per these Drawings.
- 11) The Contractor shall provide at his cost a temporary office for the Consulting Engineer at site with covered area of about 25 Sqmm. with necessary furniture, the shed & furniture, on completion of the work, is the property of the Contractor and shall be removed by him at the close of the work.
- 12) The Contractor has also to construct at his expenses the necessary stores for keeping and preserving from damage, the equipments or materials necessary for the work and also such other special storage facilities. Failure on the part of the Contractor to do so, would be considered as a breach of conditions of contract and would tender the Contractor liable to consequences of such failures.
- 13) The Contractor shall provide free of charge all labour and material required for lining out, surveying and measurements of works etc. He will similarly provide such aids as decided by the Consulting Engineer as are considered necessary for the proper and systematic execution of the work.
- 14) Where for proper measurements of the work, in the opinion of the Consulting Engineer, it is necessary to have a initial set up of levels taken, the same as recorded in the authorised field Book by the Consulting Engineer or his representative and will be signed by the Contractor, who will be entitled to have a True Copy of the same on demand.

Any failure on the part of the Contractor to get such levels before starting the works will render him liable to accept the decision of the Consulting Engineer as to the basis of taking measurements.

Likewise the Contractor will not cover any work which will render its subsequent measurements difficult or impossible without, first getting the same jointly measured by himself and the authorised representative of the Consulting Engineer.

GENERAL CONDITIONS OF CONTRACTS

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- 14) The Contractor shall engage on the work at all times a qualified and experienced Engineer as his authorised Agent to ensure that, the quality of the work turned out shall be as intended in the specifications. The authorised Agent shall sign in the work order Book and take the decision on site and shall be responsible for carrying out the works.
- 15) During the entire construction period, the Contractor has to maintain the duplicate book. Into this Book, observations and Remarks pertaining to the construction will be entered by the Employer and/or Consulting Engineer. All notification made directly by the Employer and/or Consulting Engineer to the Contractor's address by means of registered Mail shall be deemed to be sufficient and legal.
- 16) To ensure that the Contractor submits and conforms to all the bonds and conditions and specifications of the contract, the Contractor submit to the Employer and/or consulting Engineer samples of the materials he intends to supply or use together with a written manifest of the place or places from which he will obtain these materials, further more, he should present a manifest or their trade marks and all other information concerning them which Consulting Engineer may demand. These must be approved by the Consulting Engineer in writing before bringing them to the site.

In addition to above, before beginning any part of the work, the Contractor has to supply a pattern for the kind of workmanship he intends to follow and when such a pattern is approved by the Consulting Engineer, all such subsequent work shall be as per this pattern and this must comply in every respect with the provisions in the specifications.

- 17) The contractor will be required to submit periodic Reports on the progress of the work as per a format to be approved by Consulting Engineer in respect of the work, labour, material and such other aspects as demanded by the Consulting Engineer.
- 18) The Contractor has to make his own arrangement for electrical supply or Diesel Generating Set required for lighting, welding at work site.
The Contractor will have to make his own arrangement for the Telephone Connection at the work site.
- 19) However if Water Supply or Electricity is available at work site, same will be get availed to the Contractor for which necessary charges are to be arranged by the Contractor at his own cost.
- 20) The contractor shall make his own arrangements for the authorisation work permits that may be necessary for his staff and workmen to work and as may be required by the local authorities.
- 21) The Contractor shall be entirely responsible for breach of laws of local bodies, Government etc. while using private or public conveniences for procuring and stacking, employment of labour etc and he will meet out all expenses in this connection without any claim whatsoever to the clients, who would not accept any claim whatsoever and any responsibility on this account.
Before entering to any property, plot or area, the Contractor should take the permission from the client or concerned party, otherwise he will be liable to action of encroachment, trespass etc. committed by him or his labour or for the steps taken by the party concerned.
- 22) The Employer may, if required, request the assistance of Contractor's labour for purpose other than those forming part of this contract. The Contractor will not unreasonably deny such assistance and Consulting Engineer's decision in this regard shall be binding on the contractor. The Contractor will then be paid as per actual expenses.
- 23) The Contractor shall not sell or otherwise, dispose off or remove except for the purpose of this contract, sand, stones, clay, earth murum, rock or other substances or materials which may be obtained from any excavation made for the purpose of this contract. All such materials and substances shall be client's property and shall be disposed off in the manner and place as may be directed by the Consulting Engineer in writing and then if directed by him, use any of the surplus excavated materials for the purpose of this work on a stack measurements without deductions for voids. The contractor shall have to pay the cost of such materials used by him on the work at the rate that would be fixed by the Consulting Engineer.

GENERAL CONDITIONS OF CONTRACTS

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- 24) The Contractor is responsible to complete the said work within specified time limit and if he fails to do so has to pay the necessary penalty to the Client as decided by the Consulting Engineer or as per Appendix, without any argument of the Contractor in this respect.
However the Consulting Engineer In charge has authority to sanction the extension of time limit under the conditions, if work is delayed due to some natural or unavoidable circumstances of if supply of materials from Department is delayed or quantities of work increased.
- 25) Unless otherwise specifically provided for either in Items or in specifications or in the " SCHEDULE-A" all items in the Tender are inclusive of the cost of all materials required for the execution of the Items and all such materials shall be provided of the approved quality and make as directed by the Consulting Engineer.
- 26) The work is to be carried out with due diligence and all work executed should be done in a workman like manner. All the materials used in the work shall be of the best quality out of the several kinds procurable and in all cases subject to the approval of the Consulting Engineer, whose decisions as to the rates, progress and quality of the materials and the work shall be final.
- 27) Decision of the Consulting Engineer, regarding nature of the strata, quality of the materials, satisfactory completion of the work etc. will be final and Contractor has to agree upon it.
- 28) The Quality of the work executed shall be measured and payments made accordingly, after deducting necessary amounts on account of cost of materials supplied by the Department as per "SCHEDULE-A" security Deposit and any such sum due to the Contractor, at least once in a month, subjected to condition of Interim payment. However Contractor will be paid after every fortnight on account of approximate quantity of work executed, cost of the materials brought at the site and if such amount exceeds the value of Interim Certificate, as per instructions & Certificate from the Consulting Engineer.
- 29) The Consulting Engineer may put at end to the Agreement at his option, at any time and in the case of bad work or material to remove the same and get it replaced, deduct the value of the work rejected or material removed or cost of replacing, the same as may think proper, from any amount due or that may become due, to the Contractor.
- 30) All quarry fees, royalties, octroi duties, all taxes and ground rents for the stacking of materials if any, shall be paid by the Contractor.
- 31) If any other unforeseen items are to be done in the course of the work, same are to be executed by the Contractor as per specifications & instructions of the Consulting Engineer and conditions of the Agreement in this respect.
Rate of such items will be decided mutually between Contractor & Client with recommendation of the Consulting Engineer.
- 32) The Contractor shall be responsible and liable to pay any damages to public or private property caused by him.
- 33) The Contractor shall be responsible for and shall pay the expenses of providing medical aid to any workman who may suffer bodily injury as a result of an accident at work site. If such expenses are to be incurred by the Client, the same will be recoverable from the Contractor and will be deducted without any prejudice from Contractor from any amount due or that may become due, to the Contractor.
- 34) Under no circumstances whatsoever, shall the Contractor be entitled to any compensation from the Client, on any account unless the Contractor shall have submitted a claim in writing to the Consulting Engineer within fortnight of the cause of such a claim arising, that is from the date of measurements, classification or order as to the change in the design etc. and Consulting Engineer has authority to decide necessity of such claim and its value.
- 35) The rates for several items of work agreed upon will be valid only when the item concerned is Accepted and having been completed fully in accordance with the standard Specifications & instructions.

GENERAL CONDITIONS OF CONTRACTS

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- 36) In case, where the items of works are not accepted as so completed, the Consulting Engineer may make payment on account of such items, at such reduced rates as he may consider reasonable in the preparation of final or running Bills.
- 37) The Consulting Engineer or his representative is authorised to remove from the work any person or animal found working which does not satisfy the conditions and workmanship and in such cases no responsibility will be accepted by the Client for any delay caused in the completion of the work.
- 38) The Contractor shall make proper and economic use of all the material supplied by the Client either free of cost or on payment for utilisation in the execution of the contract. He shall keep the Account of such material, which should be available for the inspection by the Consulting Engineer. The Contractor shall be responsible for proper handling and safe custody of all the materials delivered to him by the Client for use of the work and shall return all surplus material after completion of the work to the client. If any shortages are notified or materials found in damaged or unserviceable condition, the cost as decided by the Consulting Engineer will be recovered from the Contractor.
- 39) The Contractor shall give all facilities to the Sub-Contractor and to his employees at his own expenses such as housing, water supply, sanitary arrangements etc. as per requirements of the health department.
- 40) All the hydraulic structures such as pipe line, water tanks etc. will have to be tested of water tightness and any defects, if found are to be repaired by the Contractor without any extra cost, to the satisfaction of the Consulting Engineer.
- 41) The contractor shall have to clear the site of work before commencement of the work without any Extra Cost, unless specified in the Tender.
- 42) The Contractor shall not deviate or vary from these specifications described in the SCHEDULE-B or Technical specifications without obtaining prior written permission from the Consulting Engineer.
- 43) If desired by the Client/Consulting Engineer, testing of material, Equipments, Machinery to be used for the work by the Contractor will be carried out as per Relevant Practice and as per directions of the Consulting Engineer at Contractors' Risk & cost.
Contractor has to submit the manufacturer's Test Certificate for the concerned material & Machinery.
- 44) Rates for concreting, form work, plastering, Brick work are for work at all heights except where heights are specifically mentioned.
- 45) In case the Contractor left the work in incomplete position or if the quality of the work and progress found unsatisfactory, the Client will have every right to get the work done through other Agency or any contractor in respect of the remaining work, in which case, the contractor will be totally held responsible for the difference in amount incurred if any in getting the work done.
- 46). **DEFECTS -LIABILITY PERIOD :**

The Defects liability period of 12 Months as mentioned in Memorandum is to be measured from the virtual date of completion/commissioning of the project and the Contractor will be held responsible for any defects observed in the work during this period & he has to reconstruct/reconstruct/replace/rectify the same at his own cost as per instructions by the Consulting Engineer. If Contractor fails to do so within reasonable time period, client has right to get it done Departmentally or through other Agency at contractor's cost & risk and the cost incurred will be recovered from the Contractor.
- 47) Unless otherwise mentioned, work shall be executed according to P.W.D. Hand Books Vol. I & II, Specifications, the latest Indian Standard Specifications and general practice prevailing in Public Health Department and as per I.E. Rules.
In case of disputes regarding applicability of specifications, the decision of the Consulting Engineer shall be final and binding on both the parties.

GENERAL CONDITIONS OF CONTRACTS

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- 48) It must be distinctly understood that conditions of contract and specifications are intended to be rigidly enforced and no relaxation's on the ground of prevailing such conditions is to be allowed.
- 49) Failure to comply with any of the above conditions and instructions given by the Consulting Engineer, will result in taking necessary act on at the risk and cost of the contractor.

These conditions are applicable for all Items and no extra payments over the Tendered rates will be made for obeying these conditions.

- 50) The contractor should not write any other conditions in this Tender, which will result in rejecting such a Tender.
- 51) In case of any dispute between company & the contractor in the matter will be referred to sole arbitrator
As per arbitration act award of arbitrator will be binding to both parties.
- 52) Any legal action will be subject to Ichalkarnji Jurisdictions

53 MODE OF PAYMENTS:

Unless otherwise specifically mentioned in the Agreement, the General mode of payment for the work covered under this contract will be as detailed below:

- a: 90 % Payment will be made against Running Bills.
- b: 10 % after satisfactory completion of the work.

NOTE: 70% advance will be considered for supply of material, while preparing Running Bills.

CONTRACTOR.

MANAGING DIRECTOR.

TECHNICAL SPECIFICATIONS

1) **A: VERTICAL OPEN WELL SUBMER :**

Pump specified in the "SCHEDULE-B" should be of Vertical Open Well Submersible type for Stage I – 20HP/15KW 3 Stage ISI model 20 DE and for Stage II 15HP/11.25 KW 2 Stage –ISI Model 15 DT DECCAN Make or KIRLOSKAR Make equivalent Capacity.

2) **DELIVERY PIPE – HDPE – PE-100 6 Kg/CM²**

A) Pump specified in the "SCHEDULE –B" should be of "KIRLOSKAR-DSM Type" MATHER & PLATT or any other make approved by the Consulting Engineer. Contractor has to get approve the type & model of the Pump before procuring the same. Item includes the cost of M.S. Base Plate fabricated out of ISMC-125 as per Drg. & design and approved couplings.

B) Electric Motor of 30 HP. As specified in the "SCHEDULE –B" should be of KIRLOSKAR make only.

3) **M.S. / C.I. PIPES & SPECIALS:**

M.S. Specials are to be fabricated form 'C' Class pipe or 6 mm. thick M.S.plate. All M.S. & C.I. should be of approved make and as per drawing approved by the Consulting Engineer. All flanges should be drilled as per I.S. Table all pipes should be of TATA, ZENITH, SWASTIK , OR JINDAL Make and 'C' class only. Item includes cost of flanges and will be paid on actual weight basis. Rate includes coat of applying two coats of approved oil paint over one coat of anti corrosive rubber paint.

4) **VALVES :**

a) **Sluice Valve.:**

Sluice Valves as specified in "SCHEDULE –B" should be with handwheel and of 'PATSON' "KIRLOSKAR GHAVANE – PATIL, IVC / IVI OR HAWA Make " only.

b) **Non Return Valve.:**

Non Return Valves as specified in "SCHEDULE –B" should be of "KIRLOSKAR 'PATSON' GHAVANE – PATIL, IVC / IVI OR HAWA Make" only.

c) **Pressure Relief Valve.:**

Pressure Relief Valves as specified in "SCHEDULE –B" should be of "IVC / IVI OR HAWA Make "only.

d) **AIR VALVE :** Air Valves as specified in 'Schedule –B' should IVC/Hawa/PATson make only.

5) **CONTROL PANEL BOARD:**

Electrical Control Panel Board as specified in "SCHEDULE_B" is to be provided as per specifications. All starters , switches should be of "LTLK / SIMENS " Make only.

All meters should be digital type and of required capacity / size and of "MECO / IMP / AE " Make only.

Contractor should get approval of the fabrication drawing of Panel Board from the Consulting Engineer.

Item includes cost of all necessary misc. material such as nuts, bolts, locking arrangements, internal Wiring and powder coating and painting.

6) **CAPACITORS:**

Capacitors as specified should be heavy duty in "APP Type and of LTLK / PRABODHAN /SHAKTI" Make only.

7) CABLES:

Cables as per specified in the “SCHEDULE – B” should be armoured Al / Copper of 1100 / 650 Volts Grade and of “PROPODOUR / POLYCAB “ Make only.

8) EARTHINGS:

Earthings for Motors , Panel Boards and other Electrical Equipments is to be done as specified in “SCHEDULE – B” and should be as per IE-RULES.

9) TOOL SET:

The Tool Set to be supplied for Erection , operation & maintenance should be as detailed below of “GEODRE / EVEREST “ Make only.

Sr.No:	Description:	Quantity:
<u>I STAGE :</u>		
1.	M.S. Clamps for column pipe of required size . ..	2 Pairs
2.	M.S. Clamps for column shaft of required size . ..	2 Pairs
3.	Fix Spanner Set upto 20 mm. dia. ..	1 Set.
4.	Ring Spanner Set upto 20 mm. dia. ..	1 Set.
5.	Screw Drivers Set of 3 Nos. various sizes suitable for Mech/Elect operation	1 Set.
6.	Plyer with insulation (Heavy type) ..	1 No.
7.	Cutter with insulation ..	1 No.
8.	Grease Gun. ..	1 No.
9.	Allen Key Set . ..	1 Set.
10.	Tester. . ..	1 No.
11.	Pipe Wrench upto 50 mm. Jaw. ..	1 No.
12.	Hacksaw. . ..	1 No.
13.	Test Lamp. . ..	1 No.
14.	Set of Flat & half round.(rough & smooth files) ..	1 Set.

10) TEST & TRIAL:

Item includes giving Test & Trial of the Pump Sets and other Mech/Elect Accessories on full load and assist to operate the Pumps for 30 Days . All material such as Lubricating oil , grease etc. is to be arranged by the Contractor at his own cost.

11) GENERAL:

All Mechanical / Electrical accessories offered by the Contractor should be guaranteed against manufacturing defects and or workmanship for a period of 12 Months from the date of commissioning of the Scheme. During this period , if required , contractor should rectify the defects or replace the defective material at his own cost as per instruction of the Consulting Engineer .

Where specific make is not mentioned for any item, contractor should get prior approval of the make from the Consulting Engineer.

CONTRACTOR.

CONSULTING ENGINEER.

MANAGING DIRECTOR

SPECIAL CONDITIONS OF CONTRACT

1. **GENERAL:**

a: The quoted rate shall be total rate for completed item of work as per specifications and shall be inclusive of all Taxes & duties & incidental charges such as Transport, Lifts , lead etc.

b: The Tenderer must obtain on his own responsibility and at his own expenses all information which may be necessary for the purpose of making a tender and for entering into a contract and must consider and satisfy himself with all local conditions, means of accesses ,all material pertaining to work.

2. **QUANTITY:**

The Items of work and their approximate quantities are given in “SCHEDULE-B”. However Contractor will be paid for the actual quantity used & hence before procuring material, contractor has to confirm the actual requirement at site in consultation with the Engineer-in-Charge.

3. **UNIT:**

The rates quoted for each Item are for units mentioned in “ SCHEDULE-B “against each Item.

4. **SUPPLY OF MATERIAL :**

All material specified in “ SCHEDULE-B “ Should be of the specified make & approved by the Consulting Engineer. Where specific make is not mentioned for any Item, contractor should get prior approval of the make from the Consulting Engineer . Decision of the Consulting Engineer in regards of make & quantity will be final.

5. **EXTRAS, OMISSIONS & DISCREPANCIES:**

In all cases the omissions, doublets or discrepancies in the dimensions in the drawings /Items of work, reference shall be made to the Consulting Engineer, whose elucidation & elaboration shall be considered final.

6. **ERECTION :**

All necessary tools & plants required for erection is to be arranged by the contractor at his own cost. Electricity required for welding if available at site will be availed to the Contractor for which he has to pay actual electricity charges, otherwise contractor has to arrange for welding generator at his own cost.

The electrical work mentioned in the “SCHEDULE-B” is to be carried out through licenced electrical Contractor only for which payments are to be made by the contractor.

7. **TEST REPORT & M.S.E.B. CONNECTIONS:**

Contractor has to give necessary Test Report to the M.S.E.B. & has to assist in getting electric connection. All necessary M.S.E.B. charges are to be paid by the client.

8. **GUARANTEE:**

All Pump sets & Mechanical / Electrical Accessories supplied & work carried out by the Contractor should be guaranteed for 12 Months from the date of completion / Trial whichever is earlier. During this period if required, contractor should rectifying the defects or replace the defective material at his own cost as per instructions of the Consulting Engineer.

CONTRACTOR.

CONSULTING ENGINEER

MANAGING DIRECTOR

S.V. PATIL

CONSULTING ENGINEER
PATIL ASSOCIATES,
Gala No. 8, Anatsree Apart.,
100 Ft. Road, Vishrambag Sangli

☎ : (0233) 2301959 Fax : 0233-2303769 Cell No. : 9823130031

Ref : ITDCL/PARVATI/WS/TENDER NO.1

Date:

Name of the Client : ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.
ICHALKARANJI Dist : Kolhapur .

Name of the work : Water Supply Project. For” PARVATI CO-OP INDUSTRIAL ESTATE,
SHAMRAO PATIL NAGAR, (YADRAV) Tal. Shirol, Dist kolhapur

“SUPPLYING,ERECTING & COMMISSIONING PUMPING MACHINERY & ACCESSORIES FOR STAGE I”.

RECAPTULATION – SHEET SCHEDULE - B

Sr. No:	Description :	Tender Cost:
1.	Pumping Machinery & Accessories (I Stage)	Rs. 5,92,200/-
TOTAL :		Rs. 5,92,200/- =====

(Total in Words **Rs. Five Lacs Ninety Two Thousand Two Hundred Only.**)

I/WE HEREBY TENDER FOR THE EXECUTION OF THE WORK, SPECIFIED IN THE ABOVE WRITTEN SCHEDULE WITHIN THE TIME LIMIT SPECIFIED IN THE CONDITIONS HEREWITH AT % (..... PERCENT) ABOVE/BELOW THE ESTIMATED RATES ENTERED IN SCHEDULE-B AND IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, DESIGNS, INSTRUCTIONS & CONDITIONS OF THE CONTRACT.

CONTRACTOR.

Name & Address: -----

FOR OFFICIAL USE ONLY

.....

CLIENT.

CONSULTING ENGINEER .

: T E N D E R (N o . 1) :

Ref : ITDCL/PARVATI/WS/TENDER NO.1

Name of the Client : ICHALKARANJI TEXTILE DEVELOPMENT CLUSTER LTD.
ICHALKARANJI Dist : Kolhapur .

Name of the work : Water Supply Project. For "PARVATI CO-OP INDUSTRIAL ESTATE LTD.,
SHAMRAO PATIL NAGAR (YADRAV) TAL SHIROL DIST KOLHAPUR"

Proposed to construct the following works for Water Supply Project for "PARVATI CO-OP
INDUSTRIAL ESTATE LTD., SHAMRAO PATIL NAGAR (YADRAV) TAL SHIROL DIST KOLHAPUR"

**"SUPPLYING,ERECTING & COMMISSIONING PUMPING MACHINERY & ACCESSORIES
FOR STAGE I & II".**

S C H E D U L E : A

Schedules showing (Approximate) the material to be issued to the Contractor for works to be executed
on this contract, and the rate at which they are to be charged.

Sr.No.	Particulars:	Qty:	Rate at which the materials Will be charge to the Contractor with Unit:	Place of Delivery:
	NIL	NIL	NIL	NIL

CONTRACTOR.

MANAGING DIRECTOR.

**SUPPLYING, ERECTING & COMMISSIONING PUMPING MACHINERY & ACCESSORIES FOR STAGE I FOR
PARVATI CO-OP INDUSTRIAL ESTATE SHAMRAO PATIL NAGAR [YADRAV]
ELECTRICAL AND MECHANICAL
STAGE - I
SCHEDULE 'B'**

Sr. No.	Description	Qty	Rate	Amount
1.	MECHANICAL WORKS			
	Deccan Make Vertical Open Well Submersible Pump Set 20 HP / 15KW 3stage ISI Model 20DE or Kirloskar Make equivalent. Providing erecting and giving test of vertical open wall submersible pump set conforming to 14220:1994 with wet type water cooled 2880 RPM motor with C.I. impeller, suitable for working on 400 volt +/- 5% 3Ph, 50 Hz AC Supply with water lubricant bearing to accept entire Hydraulic Thrust, Water Proof, winding shall be provided. Along with 3 core double run copper cable 300 Mtr with motor. Pump Set shall be suitable for working at 14 lps discharge and head 58 Mtr.			
		2 No.	45000	90000
2.	Providing erecting concreting double flanged short body pattern. Type manually operated SLUICE valve having body disc and end. Cover in graded cast iron to IS-210 gr CF-200. Generally confirming in B.S. 5155. Synthetic rubber faced ring secured on disc by retaining ring with stainless steel screw stub shaft of stainless steel riding in Teflon bearing excluding C.C. foundation / structural steel support confirming to IS 13095/1991			
	Mip DSR 2006 /2007 page 137 /2-A-iv			
	SLUICE VALVE - 100 mm PNI	2 No.	4107	8214
3.	Providing and supplying ISI Mark CI D/F reflux valve (non-return valve) of following dia. Including all taxes (Central & Local) railway freight, inspection charges, unloading from railway wagon, loading in to truck, transportation up to departmental stores /sites unloading, stacking etc. complete.			
	Reflux Valve -IS-5312 part-I(1984)			
	MJP-DSR-2006-07 PAGE 135/B-11			
	Reflux Valve 100 mm dia PN1 with by pass	2 NO.	4705	9410

Sr. No.	Description	Qty	Rate	Amount
4.	Providing and supplying AIR VALVES as per IS -10845 and MJP's standard specifications double orifice type small orifice elastic ball resting on a metal orifice nipple, large orifice vulcanite ball seating on moulded seal ring, inlet face and drilled including all taxes (central & Local), insurance, third party inspection charges, loading unloading transportation up to department store site etc. complete.			
	MJP-DSR-2006-07 PAGE-111/5-A-iii			
	Double Orifice AIR VALVE 80mm PN-I	1No.	5980	5980
5.	A) Providing and supplying C.I.D./ Fangled type spring loaded pressure relief valves of approved make and quality including all taxes (Central & Local) octori inspection Charges, transportation to Departmental Store etc. complete.			
	MJP-DSR-2006-07 PAGE -147/17-A-IV			
	P.R. Valve – PN1 80 mm	1 No.	3057	3057
	B) Lowering, laying and Fixing in proper alignment and position all types of CI, D/F angle type spring loaded pressure relief valves including cost of all material, labour, cost of conveyance from store to site of work and giving satisfactory Hydraulic testing Etc. Complete			
	MJP-DSR-2006-07 PAGE -148/18-IV			
	P.R. VALVE – PN1 80 MM	1 No.	176	176
6.	Lowering, laying and jointing in position following C.I.D/F reflux valve SLUICE VALVE including cost of all labour, jointing Materials including nut bolts and giving satisfactory Hydraulic Testing etc. complete.			
	MJP-DSR-2006-07-PAGE-146/3-IV			
	SLUICE VALVE -2, N.R. VALVE -2	4 No.	726	2904
7.	Lowering, Laying and fixing in proper alignment and position all types of C.I. Air Valves as directed by Engineer-in -charge including cost of conveyance from store to site of work , cost of all materials and giving Hydraulic Testing etc. complete			
	MJP-DSR-2006-07 PAGE 143/9A-VIII			
	AIR VALVE -80MM	1	145	145

Sr. No.	Description	Qty	Rate	Amount
	JUNCTION BOX			
8.	Providing and fabricating from 8 mm thick M.S. Plate complete with 2 no. x 100 mm dia flanged inlet and 1 x 200 mm outlet with flange suitable to join PVC rising main pipe. There should be 2 x 80 mm flanged tee with blank flanges provided for installation of air valve and p.r. valve and also suitable arrangement for draining of rising main. The junction box should be complete with suitable legs facilitating grouting work. The drawing and design of junction box should be submitted to the Consulting Engineer of the scheme for his approval before actual fabrication work including 2 coats of anticorrosive paint etc complete (fabricated from 8 mm M.S. Plate)			
	a) Barrel Piece			
	$2 \times (0.8 + 0.2/2) \times 0.008 \times 0.90 \times 7850 = 56.52 \text{ Kg}$			
	$2 \times 1/2 \times 3.14 \times 0.458 \times 0.008 \times 0.90 \times 7850 = 81.28 \text{ Kg}$			
	ii) Tail Pieces			
	Inlet - $2 \times 3.14 \times 0.108 \times 0.008 \times 0.30 \times 7850 = 12.77 \text{ KG}$			
	Outlet - $1 \times 3.14 \times 0.208 \times 0.008 \times 0.30 \times 7850 = 12.30 \text{ Kg}$			
	Drainage - $1 \times 3.14 \times 0.108 \times 0.008 \times 0.30 \times 7850 = 6.38 \text{ Kg}$			
	Tee for AV & PRV - $2 \times 3.14 \times 0.088 \times 0.008 \times 0.30 \times 7850 = 10.41 \text{ Kg}$			
	c) Flanges			
	100-3 No. = 5.40 Kg			
	80 mm - 2 No. = 2.00 KG			
	200 mm - 1 No. = 3.00 Kg			
	Inside Joints Plate $1 \times (0.8 + 0.2/2) \times 0.01 \times 0.5 \times 7850 = 1962 \text{ Kg}$			
a)	M.S. Plate (MJP-DSR-2006-07-PAGE-353/3)	0.200MT	34430	6886
b)	Fabrication (MJP-DSR-2006-07-PAGE-151/4)	0.200MT	5500	1100
c)	Flanges (MJP-DSR-2006-07-PAGE-21/PW/14-1)	10.40 Kg	75	780
9.	Providing and Supplying in standard lengths HDPE pipes conforming to IS 4984/14151/12786/13488 with necessary jointing material like mechanical connectors i.e. thread/insert joint/quick release/coupler joint/compression fitting joint or flanged joint, including all taxes (Central & Local) transportation and freight charges, conveyance to the department stores / sites and stacking the same in closed shed duly protecting from sun rays and rains etc complete.			

Sr. No.	Description	Qty	Rate	Amount
	PE-100-110 MM DIA-6KG/CM ² HDPE			
	Delivery Side – Straight Run			
	2 Pumps x30 m/pump	60 M	319	19140
10.	Supplying and Erecting heavy duty G.I. Elbow in position with necessary materials etc complete.			
	i) 100 mm dia Flanged 90	4 Nos.	500	2000
	ii) 100mm x 90 mm	2 Nos.	300	600
	iii) 100mm x 63 mm	2 Nos.	300	600
11.	Supplying and erecting 0-100 lbs/sq. inch Pressure Gauge having 4" dia complete with socket for ½" G.I. Pipe			
	PWD-DSR-2006-07PAGE-145/12/2-71	2 Nos.	365	730
ELECTRICAL WORKS				
12.	PANEL BOARD			
a)	Panel Fabrication M.S. Sheet of 16 SWG to be used for fabrication of Box Panel Board etc. including cutting, Bending, Drilling, Welding, Cleaning, Dersuting and Painting one Coat of Red Lead Paint and Two Coats of Enamel Paint			
	Box Size -1.20m x 1m-16 SWG	3.57	1223	4366
	MJP-DSR-2006-07 PAGE-47/LT-2			
b)	IRON WORK FOR PANEL BOARD			
	Iron work for Panel Board or for other purpose complete. With bending, cutting, drilling and welding complete. Erected at position with necessary material duly painted with one coat of Red Oxide and Two Coates of Enameled Paint to match the switch gear or as direction of the Engineer in Charge.			
	MJP-ELE-DSR-2006-07 PAGE-48/LT3			
	Channel – 75x37.5x6 =			
	2 No x 2.50 M x 7 Kg/m = 35 Kg			
	2 No x 1.20 M x 7 Kg/m = 16.8 Kg			
	51.80 KG	52 KG	65	3380
	SWITCH GEARS			
	c) Supply and erecting triple pole metal / iron clad switch and fuse 415/500 V 63 amp approved make erected on angle iron frame			
	PWD-DSR-2006-07-PAGE-61/5-1-7	1 NO.	5445	5445

Sr. No.	Description	Qty	Rate	Amount
	d) Supply and erecting triple pole metal / iron clad switch and fuse 415/500 V 63 Amp approved make erected on angle iron frame			
	PWD-DSR-2005-06-PAGE-61/5-1-7	2 NO.	1725	3450
	e) Providing and erecting analog type moving iron Volt Meter for A.C. Voltage 0-500 V, 50 Hz, accuracy class 1.5 flush type on provided Box/Panel and connected with necessary PVC wire Leads and Lugs.			
	PWD-ELE-DSR-2005-06-PAGE-125/11-1-1	1 No.	560	560
	f) Providing and Erecting selector Switch suitable for Voltmeter/Ammeter for Three Phase A.C. Supply, 500 V, 50 Hz on provided Box/Panel and duly connecting with necessary PVC wire Leads and Lugs.			
	PWD-ELE-DSR-2005-06-PAGE-125/11-1-1	1 No.	415	415
	g) Providing and Erecting analog Type moving iron AMMETER for A.C. Current 0-30 A direct Range, 500 V accuracy Class 1.5 Flush Type on provided Box/Panel and connected with necessary PVC wire Leads and Lugs			
	PWD-ELE-DSR-2005-06-PAGE-125/11-1-3	2 No.	475	950
	h) Supply and Erecting LED Type Pilot Lamp with LED Colour RED/YELLOW/GREEN 230/250 V on provided Box/Panel with necessary material wiring and connection etc.			
	PWD-ELE-DSR-2005-06PAGE-127/12-2-1-A	3 No.	150	450
13.	STARTER [F.A.S.D.]			
	Supply and Erecting fully automatic Star Delta Starter to operate squirrel cage induction motor working on 380-440 volt, 3 phase, 50 Hz, with no volt coil over load relay and on off push buttons with necessary material and connected to supply etc. complete. Starter with Original sheet steel enclose.			
	F.A.S.D.-ML-2 suitable for 20 HP	2 NO.	14985	29970
	MJP-ELE-DSR-2006-07-PAGE-64/LG-3-3			

Sr. No.	Description	Qty	Rate	Amount
14.	L.T. Capacitor			
	Supplying and Erecting Bank of Metalized Polypropylene Condensers with the standard Capacities of 1, 2, 3, 5, 7, 12, 5, 15, 20 and 25 KVAR units of power factor correction for operation on 3 phase. 50 Hz 400 V +/- 10% with externally discharging resistances, earthing terminals and built up angle iron or channel iron frame work and provided with terminal cover box completed erected and tested.			
	MJP-ELE-DSR-2006-07-PAGE-61/CP1	12KVA	309	3708
15.	CABLES			
	Supplying and Erecting PVC armored cable 1100 V Grade with ISI Mark of following Core Solid /Standard Aluminum Conductor with 6mm thick 25 mm width M.S. spacer with G.I. earth wire 6 sq. mm. complete erected on wall / on pole with 25 x 3 mm M.S. Clamps or in provided trench in an approved manner.			
	a) Transformer to Panel Board 3.5 Core 50 sq.mm.	40 M	441	17640
	MJP-ELE-DSR-2006-07-PAGE-78/CB-5-3			
	b) Panel to Motor to Monitor			
	3 core 6 sq. mm. Copper flat cobel ISI Mark	60M	178	10680
	c) Panel to Capacitor			
	3 Core 4 sq. mm. Copper Flat Cobel	10 M	132	1320
16.	EARTHING			
	a) Supplying and Erecting galvanized cast iron earth plate size 60x60x0.6 cms. Buried in specifically prepared earth pit so as to keep top of earth plate 1.5 Mtr. Below ground level with 30 Kg charcoal and salt each comp. with necessary length of double G.I. Earth Wire 8 SWG connected to plate with cadmium plate nut bolts 12mm dia with G.I. Pipe 2 mtr deep but at right angle at 0.6 mtr below ground level and remaining portion of G.I. Wire from surface of the earth to switch gears in PVC pipe up to accessible height duly sealed at both ends by bituminous compound comp. connected to the nearest switch gears with end socket as per direction and duly tested by earth tester and recording the results. Supplying and erecting 19 mm dia vertical G.I. Pipe 1.5 m Long with funnel and mesh at top is included in the scope of work			

Sr. No.	Description	Qty	Rate	Amount
	PLAETE TYPE ELECTRODE	6 NO.	2000	12000
TRANSFORMER				
17.	Power Transformer [with off load tap changer] 11000/433 Volts – 63 KVA			
	Providing and Erecting Testing commissioning outdoor type copper wound transformer MSEB approved , continuously rate for 3 phase 50Hz at full load and temp rise not exceeding 45 C by thermometer in oil and 50 C by resistance in winding after continuous run at full load rating, the transformer should have oil immersed winding having vector group Dy 11 HT side connected in star with neutral brought out connected in delta and L.T. side connected to provided spared earthing the transformer shall have power terminal arrangement bussing cable end – box on H.T. side and cable end box on L.T. side 2 No. channels with stoppers shall be provided and fixing on the provided plinth for mounting the transformer. The transformer should have following standard fittings.			
	1. Oil conservator with filing hole with cap and plain oil Level gauge.			
	2. Silica Gel Dehydrating Breather charge with Silica Gel.			
	3. Oil Drain Valve			
	4. Oil Filter Valve			
	5. Lifting Eyes / Hooks			
	6. Two earthing Terminals			
	7. Diagram and Rating Plate			
	8. Air Vent			
	9. Explosion Vent			
	10. 100mm dia Thermometer with Thermometer Pocket			
	11. Four by Direction Plan Roller.			
	Power Transformer, 11000/433 Volt with off load tap changer 12.5% + 2.5% in steps 2.5% 63 KVA			
	MJP-DSR-2006-07 PAGE-38/TR-1-1			
	Transformer -63KV (11000/433 Volt)	1 No.	182687	182687

Sr. No.	Description	Qty	Rate	Amount
b.	Supplying and Erecting approved make 11 KV outdoor type Gang Operated air break triple pole switch 200 Amp capacity with 3 post pin type insulator per phase mounting in Horizontal or Vertical position on provided cross arm with adequate length of G.I. Pipe for operating handled erected on extended square shaft. The operating handle provided with lock and key at suitable height from ground level with necessary clamps.			
	PWD-DSR-2006-07 ITEM NO. 8-4-13 PAGE 105	1 Set	13400	13400
c.	Supplying and Erecting approved make 11 KV outdoor type drop out fuse with insulator comp. with fuse holder, fuse barrel with metal filing fuse element mounted on M.S. channel with working current of 15 amps capacity comp. erected on provided cross arm.			
	PWD-DSR-2006-07 ITEM NO. 8-4-16 PAGE 105	1 Set	8130	8130
d.	Supplying and Erecting approved make Tyrite Type lightening arrester suitable for 11 KV supply with necessaries ancillary materials comp. erected on provided cross arm and connected to the over head line, similar catalogue No. 22-a-09 of IGE make distribution class.			
	PWD-DSR-2006-07 ITEM NO. 85-5-1 PAGE 28	1Set	4236	4236
e.	Supply and Erecting Porcelain Disc Type insulator suitable for 11 KV Line Comp. erected with suitable hardware on provided cross arm.			
	PWD-DSR-2006-07 ITEM NO. 8-4-3 PAGE 103	6 No.	785	4710
f.	Supply and Erecting 100x 50 mm with 4.7 mm thick web and 7.5 mm thick flange channel iron cross arm of suitable length fabricated for high tension insulator mounting and erected on two pole structure 2.4 mtr a part with provided 2 clamps of 15x6 mm M.S. flat and 15 mm nuts and bolts for each cross arm duly painted with 1 coat of Red oxide and two coats of Silver Paint			
	PWD-DSR-2005-06 ITEM NO. 8-4-7 PAGE 104	10	870	8700

Sr. No.	Description	Qty	Rate	Amount
18.	11 KV Outdoor sub Station with poles with supply Erection concreting painting			
a.	Supply of RSJ poles 100 x 116x10 m Long Drilling, Cutting, painting with nut bolts etc. complete.			
	2x10x460 Kg/m = 460 Kg			
b.	M.S. Channel 100x50x2.76 M			
	12 Nos. x 2.76 M x 9.90 Kg/m = 328 Kg.			
c.	Supply Erection M.S. Clamps with nut bolts etc			
	20 Nos x 5 Kg/No. = 100 Kg			
d.	Supply erection drilling cutting welding angle 50 x 50 mm x 6 mm 20 m for Cross bracing			
	20 m x 5 Kg/m = 100 Kg			
	Total 988 Kg			
	Say 1000 Kg	1 MT.	40240	40240
	MJP-ELE-DSR-2005-06-PAGE 29/3			
19.a)	Supply and erecting hard drawn copper solid wire No. 0-6 SWG standard wire gauge comp. Erected for connection of H.T. Side			
	PWD-ELE-DSR-2005-06-PAGE 105/8-4-20	10 Kg	300	3000
b.	Supplying and erecting extra thick alka thin pipe 10 mm dia erected to in close bare conductor wire [use shall restricted to HT]			
	PWD-ELE-DSR-2005-06-PAGE 105/8-4-21	15 M	20	300
21.	Supplying operating rod suitable for 11/22 supply with clamps for removing drop out fuses at 6 m length 4 pieces each with rain shed porcelain insulator with hand rip including earthing chain 1.5 m Length [Light duty]			
	PWD-ELE-DSR-2005-06-PAGE 105/8-4-22	1	2390	2390
22.	SAFTY EQUIPMENTS			
i)	Printed Instruction Chart	1	150	150
ii)	Round Bottom fire bucket of 9 Ltr Capacity	4	135	540
iii)	Floor Mounting Stand	1	500	500
iv)	Standard First Aid Box	1	290	290
v)	Rubber matting -3mm thick of required length	25 Sq. mm	500	1250
vi)	DCP Type fire extinguisher 5 Kg	1	2275	2275
vii)	Pair of rubber hand glows (as per DSR)	1	150	150

Sr. No.	Description	Qty	Rate	Amount
22.	OUTDOOR CT			
	Providing, Erecting & commissioning Outdoor type Single Phase Oil Filled Current Transformer for Metering and Protection purpose of suitable C.T. ratio and V.A. burden duly erected on provided cross channel.			
	Single Core C.T.			
	Suitable for 11 KV System	Each	17664	17664
	MJP-DSR-2006-07- PAGE 32-55-16-1			
23.	OUTDOOR PT			
	Providing erecting and commissioning Outdoor type Single Phase Oil Filled Potential Transformer for Metering purpose of suitable V.A. burden duly erected on provided cross channel			
	Single Core Suitable for 11 KV System	Each	25123	25123
	MJP-DSR-2006-07- PAGE 32- 55-17			
24.	Travecto Meter	1 No.	20500	20500
25.	Passing from Electric Inspector AU Equipments, submission of documents etc	Job	10000	10000
			TOTAL	592191
			Say Rs.	5,92,200/-

CONTRACTOR

MANAGING DIRECTOR