



از دفتر ایکزیکیوٹیو انجینیر میکانیکل اریگیشن ڈویژن بارہمولہ  
OFFICE OF THE EXECUTIVE ENGINEER  
Mechanical Irrigation Division Baramulla

NIT No: E-57 of 2018-19

For and on behalf of Governor of Jammu & Kashmir State, sealed e-tenders in two covers, affixed with ₹ 6.00 revenue stamps, are invited from experienced, reputed and registered firms/ genuine manufacturer/authorized distributors/dealers/workshop owners / SSI Unit holders with manufacturing authorization for the following work:

S. No.	Name of work	Cost of tender document	Estimated Cost (₹ in Lacs)	Earnest money	Validity of offer	Major Head	Tender ID
1.	Design, Manufacture, supply, Installation, Testing and commissioning of 02 cusec capacity, 100 Meter Dynamic Head, Horizontal Centrifugal Pump coupled to 120 HP motor or corresponding to head & discharge for Lift Irrigation Scheme Jabla Slamabad Khul.	₹ 1500.00	₹ 16.00	₹ 32,000.00	180 days	BADP	2019_IFC_68739_1

The tenders consisting of qualifying/eligibility criteria, technical specifications, general and commercial terms and conditions of contract and other details can be seen/downloaded from the website <https://jktenders.gov.in> from **07-01-2019 (04:30 pm)**.

The bids shall be submitted in electronic format on the website <https://jktenders.gov.in> from **07-01-2019 (6:00 pm)** to **21-01-2019 (6:55 pm)**. The bids uploaded on the website up to due date and time will be opened on the time and date, in the office of the **Executive Engineer, Mechanical Irrigation Division Baramulla** in presence of the bidders who wish to attend. In case offices happen to be closed due to holiday, or any other reason, on the schedule date of opening, the bids will be opened on the next working day at the scheduled time and venue.

**The complete bidding shall be online.**

Prequalification bids shall be opened online in the office of the **Executive Engineer, Mechanical Irrigation Division Baramulla** on **22-01-2019** at **3:00 pm** after which the financial bids of qualifying bidders shall be opened on the same day. The **pre bid meeting** regarding clarification shall be held in the office of the Executive Engineer Mechanical Irrigation Division Baramulla on **17-01-2019** (11:00 am).

The bids for the work shall remain valid for a period of 180 days from the date of opening of bids.

No. MIDB/CC-02/2647-2656

Dated: 07-01-2019

Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla

Copy to The:

1. Chief Engineer, Kashmir I&FC Deptt. Srinagar for favour of information.
2. Superintending Engineer Mechanical Circle I&FC Deptt. Srinagar for favour of information.
3. Deputy Director Information Department Srinagar with the request to publish the gist in any two leading local Newspapers of the Valley well before due date of receipt of tenderers.
4. -7 Assistant Executive Engineer Mechanical Irrigation Sub-Division Baramulla/Sopore/Pattan/Handwara for information.
8. Technical Officer Divisional Office for information.
9. District President Federation Chamber of Industries Baramulla for information
10. Assistant Accounts Officer Divisional office for information.
11. Notice Board.



از دفتر ایگزیکٹو انجینئر میکانیکل اریگیشن ڈویژن بaramولہ  
OFFICE OF THE EXECUTIVE ENGINEER  
Mechanical Irrigation Division Baramulla  
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Tender Document of NIT No: E-57 of 2018-19  
Issued under No. MIDB/CC-02/2647-2656, dated: 07-01-2019

**Annexure "A"**

**General terms and conditions**

1. For and on behalf of Governor of Jammu & Kashmir State, e-tenders valid for 180 days are invited from experienced, reputed and registered firms/ genuine manufacturer/authorized distributors/ dealers/ workshop owners / SSI Unit holders.
    - 1.1 The bidding documents consisting of qualifying/eligibility criteria, technical specifications, general and commercial terms and conditions of contract and other details can be seen/downloaded from the website <https://jktenders.gov.in>
    - 1.2 The Cost of "Tender Document" shall be furnished in the shape of Treasury Challan / e-Challan (Annexed as annexure "D" to this document) in favour of the Executive Engineer, Mechanical Irrigation Division Baramulla and 2% of estimated cost be furnished as earnest money deposit pledged to the **Executive Engineer, Mechanical Irrigation Division Baramulla** drawn from a scheduled bank.
    - 1.3 The bids shall be submitted in electronic format on the website <https://jktenders.gov.in>. The bids uploaded on the website up to due date and time will be opened on the time and date (given in the list of important dates enclosed), in the office of the **Executive Engineer, Mechanical Irrigation Division Baramulla** in presence of the bidders who wish to attend. In case Offices happen to be closed on the scheduled date of opening due to holiday or any other reason, the bids will be opened on the next working day at the scheduled time and venue.
    - 1.4 The complete bidding process will be on line.
  2. **Submission of Tenders:**

**The tenders shall be submitted on line in two covers.**

    - 2.1 **First cover shall contain self-attested copies of the following documents:**
      - Tender fee towards cost of tender document in shape of Treasury Challan (Annexed as annexure "D" to this document) and shall reach the office after three days of last date of bid submission.
      - Bank Document in respect of Earnest money for in the shape of CDR/FDR/BG.
      - Goods and Services Tax (GST) Registration Certificate.
      - Manufacturing Authorization certificate in case of SSI Unit holders/Manufacturers
      - Certificate, if any, for carrying out the similar nature of job duly endorsed by the officer not less than the rank of Executive Engineer.
      - "Technical Specifications" as per annexure "B2"
      - "Commercial terms and conditions" as per annexure "D".
- Note:**
- i. **The above documents shall be subject to proper scrutiny. Bids without pre qualifications shall be rejected.**
  - ii. **In case of exemptions in tender fee or EMD SSI units need to have the relevant registration for the tendered out or similar nature of job.**
  - iii. **The bidder must submit their respective email ids and phone numbers for future communications. The communication via email shall be considered as authentic and final.**
3. **Second Cover shall contain the Price Bid/BOQ as per annexure "C"**

Tenders not submitted in two covers, containing above documents, shall be rejected out rightly.
  - 3.1 **First Cover (Prequalification)** shall be opened online in the office of the **Executive Engineer, Mechanical Irrigation Division Baramulla** after which the financial bids of qualifying bidders shall be opened on the same day.
  4. **Validity**

The tenders shall be valid for a period of **180 days** from the date of opening of First Cover.
  5. In case the Technical/Price Bid Cover of the tender could not be opened on scheduled date due to holiday or any other reason, the same will be opened on the next working day at the scheduled time and venue.
  6. Tenders received without earnest money in full shall be rejected even though such a tender may otherwise be the most favourable.
  7. The date of opening of Cover-1<sup>st</sup> shall be deemed to be the date of opening of tenders.

8. After the tenders are opened, no tenderer shall be allowed to change the equipment offered by him or the prices or terms and conditions quoted by him, unless specifically asked to do so by the Department in writing by way of clarifications.
9. The **Executive Engineer, Mechanical Irrigation Division Baramulla** reserves the right to reject, or, accept any or all tenders in part or in full, without assigning any reason thereof.
10. For any typographical error or omission in the various conditions and contents of the tender document, the interpretation as given by the Department will be final and binding upon the tenderers.
11. No telegraphic tenders shall be accepted.
12. **Interdependent tender:**  
Tenders which are dependent on the quotations of other tender shall not be entertained.
13. **Expenses for tendering:**  
The tenderer shall not be entitled to any claim towards expenses incurred incidental to the submission of the tender or subsequent evaluation/clarification thereof.
14. **Result of tender:**  
Successful tenderer will be informed about result by the Department/via email. On receipt of the written order to commence the work from the Department and on the basis of the stipulations in these tender documents, subject to the changes mutually agreed upon by the Department and the tenderer before the award of the contract, the contractor will start the work. Time taken in signing the agreement will not affect the time of completion specified for the work. No payment shall, however, be made till the agreement is executed.
15. **CLARIFICATIONS:**  
In case of any technical clarifications, suggestions, comments, set forth in the tender documents, the tenderers shall:
1. Reach to the office of the **Executive Engineer, Mechanical Irrigation Division Baramulla** for pre-bid meeting on scheduled date.
  2. Address the **Executive Engineer, Mechanical Irrigation Division Baramulla** in writing at least three days before the last date fixed for submission of tenders.
16. In case of VT pumping unit, Iron Removal Plants and AVRs, the following additional terms and conditions shall apply:
- a) The company should have experience of having successfully completed at least one similar nature of work costing not less than ₹ 4.50 Lacs during last 5 financial years. Before dispatch, the equipment shall be inspected at the works of the Manufacturer(s) by an Authorized Representative of the Department. The charges for the **inspection** shall be borne by the contractor. All relevant test manufacturers' certificates, including Inspection Certificate, performance test, Noise Control Test Certificate shall be furnished at the time of delivery of the material, without which no payment shall be released to the Firm by the Department.
  - b) The experience certificate clearly giving all details and performance report from Govt./Local Govt./Semi Govt. organization, which shall be issued by the officer not below the rank of Executive Engineer, shall be submitted.
  - c) This tender document specifies the various acceptable makes of equipment out of which the tenderer can quote any make. In case the tenderers quote various makes for the equipment, the choice of selection of make of equipment out of the quoted makes shall rest with the Department. The tender(s) of such tenderer(s) who quote outside the acceptable makes of equipment or who keep the choice of make of equipment to himself/themselves shall be rejected by the Department
- 16.1 In case of Creation of sub-station, the bidder must have **"A" Class Electrical License** and shall have to obtain relevant inspection certificate from inspection wing of PDD.
17. **Prices:**  
The prices quoted (if applicable) shall be all inclusive of, CGST, SGST, packing, forwarding, freight (by road, transport from manufacturers works up to the site of installation), un-loading, transit insurance, toll, octroy and all other levies and taxes, whatsoever applicable.

**Note:** In case rates are found below the estimated/advertised cost, as mentioned in slab, the firm/contractor has to deposit additional amount of respective percentage in shape of CDR/FDR/BG **pledged** to undersigned prior to issue of formal allotment order.

Up to 15%	Nil
If below 16% to 20%	3.00%
If below 21% to 25%	3.50%
If below 26% to 30%	4.00%
Beyond 31%	5.00%

**18. Subletting of work:**

The contractor shall not sublet the whole or part of the work, except where otherwise provided by the agreement. The contractor shall not assign the work or any part thereof or any benefit or any interest thereon or any claim arising out of the contract, without prior written consent of the Department.

**19. Period of completion:**

The job tendered out shall be completed within a period of **90 days** from issuance of letter of intent/placement of allotment order. The successful tenderer on whom the allotment order for the subject job shall be placed shall have to strictly abide by the delivery schedule.

**20. Accommodation and other facilities:**

The contractor shall be responsible for complete watch and ward of the equipment, the installation, indoor as well as outdoor during the occurrence of the contract, which shall include maintenance of lights, guards, fencing and watching, safety and convenience of the staff, labour and general public.

**21. Staff & labour:**

The Contractor shall make his own arrangements for the engagement of all type of staff/labour for execution of the contract. No workman below the age 18 years shall be employed on the works, and the contractor shall comply with the provisions of all labour laws and rules framed there under.

**22. Accident provisions:**

The Contractor shall be responsible for any accident which may occur during the period of work, to human life. Compensation, as shall be applicable under labour law, or any other law in vogue, shall be payable to the victim by the Contractor only.

**23. Agreement:**

A formal deed of agreement, incorporating therein the terms and conditions which shall govern the contract, will be executed by the successful tenderer with the Competent Authority of the Department within one week of the issuance of the formal "Allotment Order". This written instrument of agreement governing the contract shall, in all respects, be deemed to be, and shall be construed to be, and shall operate as, "An Indian Contract" in conformity with laws applicable and in vogue in the State of Jammu & Kashmir, and shall be subject to the jurisdiction of the Court in the State of Jammu & Kashmir only.

**24. SCOPE OF TENDER:**

The scope of this tender is "Design, Manufacture, Supply, Installation, Testing and Commissioning of Electric Motor Driven Horizontal Pumping Equipments" **Design, Manufacture, supply, Installation, Testing and commissioning of 02 cusec capacity, 100Meter Dynamic Head, Horizontal Centrifugal Pump coupled to 120 HP motor or corresponding to head & discharge for Lift Irrigation Scheme Jabla Slamabad Khul**

**25. Performance Guarantee:**

- i.** The works executed shall be guaranteed for its satisfactory performance for a period of **12 Calendar Months** from the date of commissioning or for **One Complete Irrigation Season** whichever is earlier for this purpose;
- ii.** The Department shall retain the earnest money of the successful tenderer till the defect liability period [period of performance guarantee] is over.
- iii.** **10 %** of the total value of the allotment order shall be retained by the Department as "Firm's Deposit" which shall be released after the satisfactory performance of the jobs executed for the stipulated time period.

**26. Terms of payment for procurement fresh items:**

- i) 75% of payment shall be released only after receipt of material in full and verification thereof, subject to availability of funds.
- ii) 15% shall be released after installation, testing and successful commissioning at site.
- iii) Remaining 10% shall be kept in deposit and will be released after the Defective Liability Period as stipulated in clause 25 is over.
- iv) No part payment against any item shall be released.

**27. Terms of payment for repairing of equipment:**

100% of payment shall be released only after re-installation, testing and successful commissioning at site.

28. **PENALTY:**  
In the event of the Contractor failing, declining, neglecting or dealing the execution of the ordered work, and/or, in the event of any damage occurring or being caused by the contractor, and/or, in the event of the default or failure of the contractor to comply with any of the terms and conditions of the contract, the Department, without prejudice to any other remedy available to it under any law for the time being in vogue in J&K State, shall;
- a. Terminate the contract and/or
  - b. Recover the amount of loss caused by the damages, failure or default, as may be determined by the Department and/or
  - c. Impose a penalty for delay in execution of the ordered work, upto a maximum limit of 10 Percent (10%) of the value of the Contract, and/or
  - d. Forfeit the security deposit, and/or
  - e. Get the job executed through some other agency at the cost, risk and responsibility of the contractor.
29. **QUALITY AND SIZE VARIATION:**  
The contractor shall be fully responsible for the quality of the work executed and in case of any deviation in the quality or in the specification of the work/material; the work executed shall be liable for rejection for which the responsibility will rest with the contractor.
30. **ACCEPTANCE OF TENDER:**  
As soon as acceptance of tender is communicated to the successful tenderer the contract shall be complete and binding on the Firm.
31. **ARBITRATION:**  
If, at any time, any question, dispute or difference, whatsoever, arise between the parties to this contract, up on or in relation to the contract, either of the parties may give to other notice in writing of the existence of such questions, disputes or differences and same shall be referred to award to two arbitrators, one to be nominated by the Department and other to be nominated by the firm and the award of the arbitrators shall be final and binding on the parties. In case of difference in opinion of the arbitrators, the decision/award of an umpire appointed by them shall be final and binding on the parties. Such an existence of any question, dispute or difference in connection with the contract shall be served by either party within 07 days of beginning of such questions, dispute or differences, failing which all such question/questions, disputes/disputes, difference/differences shall be deemed to have not been risen at all and either party shall be absolutely barred to raise such questions or disputes or differences. Upon every or any such reference, the cost of incidentals of the reference and award respectively shall be at discretion of the arbitrators, or in the event of their difference of opinion/not agreeing with the umpire appointed by them, who may determine the amount thereof and direct the same to be fixed as between solicitor client and client, or as between party and party and shall direct by whom to whom and in what manner, the same shall be borne and paid. The provision of J&K Arbitrators Act 2002 and of the rules there under or any up-to-date statutory modification/amendment thereof, shall be deemed to apply to arbitrators. Dispute, if any, requiring reference to courts shall be subject to the jurisdiction of J&K Courts and Srinagar, Kashmir only.
32. **LIQUIDATED DAMAGES:**  
Liquidated Damages @ ¼ % per week and up to a maximum of 2% will be levied in case of delay in delivery beyond the contractual period.
33. **TESTING & INSPECTION:**  
All testing, in respect of all “Technical Specifications” of the equipment shall be carried out at the manufacturers works by a 3rd party inspection agency nominated by the Department, in presence of an Authorized Representative of the Department, free of any cost to the Department.  
The Department may engage a third party for the purpose of testing and inspection. In such an eventuality, the charges towards third party inspection shall be borne by the Department. However, in case the equipment is rejected by the third party once, the contractor shall bear the cost of all subsequent inspections by the third party.  
The contractor shall furnish original and authentic copies of all such tests of equipment/material carried out by the 3rd Party Inspecting Agency.  
The contractor shall have to furnish GAD/QAP of the equipment to the Department, which shall be got approved by the Department before manufacture of the equipment. The approved GAD/QAP shall form the basis for testing and inspection of the material/equipment by the Departmental Representative/3rd Party, as the case may be.
34. **OPERATION AND MAINTENANCE MANUAL:**  
The contractor shall provide three sets of Operation & Maintenance Manuals of the entire equipment to the Department free of cost, along with the supply of the ordered equipment. These manuals shall be properly bound in book form, and shall contain all necessary instructions for operation, preventive/routine maintenance schedule, troubleshooting etc. detailed drawings and circuit diagrams of the equipment, whatever applicable. Spare Parts, Catalogue, complete with manufacturer’s “Part Number” shall also be provided with the manuals.
35. **FORCE MAJEURE:**  
If, at any time during the continuance of the agreement it becomes impossible by reasons of war or war like operation, strike or lockout, riots, civil commotions, pestilence, epidemical sickness, earthquake, fire, storm or floods, power restrictions or delay in sanctions of loading of infringement items of machinery or other hindrance beyond the control of either of the parties, either party, during the continuance of such contingency, shall not be bound to execute the contract as per agreement. Provided always that the work shall be resumed immediately and obligations, thereof, shall continue to be in force for correspondingly extended period after resumption of the execution. The contractor shall inform the Department about such happening as and when it occurs, by e-mail/FAX/Registered Speed Post, failing which no notice will be taken for any such cause.
36. **LEGAL PROCEEDINGS:**  
The courts in the State of J&K at Srinagar only shall have exclusive jurisdiction to adjudicate on all matters between the parties of this tender.

37. **INSURANCE CLAUSE:**  
It shall be the responsibility of the successful tenderer to ensure safe delivery of equipment/material in the consignee's stores at Baramulla. Only perfect, sound and undamaged equipment/material shall be accepted by the consignee. Further it shall be the responsibility of the firm to lodge claim with the concerned insurance company if covered for any damage that it may occur during transit and the department shall have nothing to do with such proceedings.
38. **Clean up:**  
The contractor shall always keep the site clean, devoid of any dirt, dust, surplus materials as per the instructions of the Departmental Supervisors/workers. The equipment and sites should be kept neat and clean for the whole period of Contract. No extra payment shall be made by the Department on this account.
39. **Consignee and payment making authority:**  
The 'Consignee' and the 'Payment making Authority' for the Contract shall be **Executive Engineer, Mechanical Irrigation Division Baramulla**

**Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla**



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Tender Document of NIT No: E-57 of 2018-19  
Issued under No. MIDB/CC-02/2647-2656, dated: 07-01-2019

Annexure "B1"

**[TECHNICAL SPECIFICATIONS]**

**Subject:** Design, Manufacture, supply, Installation, Testing and commissioning of 02 cusec capacity, 100 Meter Dynamic Head, Horizontal Centrifugal Pump coupled to 120 HP motor or corresponding to head & discharge for Lift Irrigation Scheme Jabla Slamabad Khul.

**1. THE SALIENT TECHNICAL FEATURES OF THE PUMPING EQUIPMENTS SHALL BE AS UNDER:**

**A. PUMP**

- i.** The Pump shall be dynamically balanced at the runaway speed. Impeller shall be statically and dynamically balanced, and shall be fastened to the shaft in such manner so as to ensure that the joints withstand maximum torque and thrust which will occur under all operating conditions including maximum reverse rotation.
- ii.** Pump/Pump Driver shall not be stressed, or suffer any damage owing to the sudden power failure while one of the pumps is in operation and valves of other pump/pumps are open. Reverse rotation in such eventuality shall not loosen any parts or cause any damage to the pump or the drive at runaway speed. Pumps shall, however, be capable of reverse rotation without causing any damages to the pumps or the Pump Driver. The time period for which the pumps can be allowed to rotate in the reverse direction should also be mentioned. Forward and backward speed torque curves shall be furnished by the tenderer.

**iii.** The materials to be used for various components of the pump shall be as hereunder:

- |                          |   |                               |
|--------------------------|---|-------------------------------|
| <b>a)</b> Impeller       | : | Stainless steel               |
| <b>b)</b> Shaft Sleeves  | : | Stainless steel               |
| <b>c)</b> Impeller Nut   | : | Stainless steel               |
| <b>d)</b> Impeller Shaft | : | Stainless steel (Solid type)  |
| <b>e)</b> Pump Casing    | : | Close fine grained cast iron. |
| <b>f)</b> Base Frame     | : | Mild steel fabricated         |

**iv.** Following curves of the pump shall be furnished by the Tenderer. The curves shall be pump manufacturers authentic curves under their and signature. No other curve shall be accepted and tenders without authentic curves shall not be entertained.

- a)** Full range characteristic curve of pump offered showing the head capacity curve and NPSHR curve over the whole range with duty point, shut off and run out points clearly marked.
- b)** Speed-Torque curve of the pump for forward and backward rotation.

**v.** Following essential features of pump shall be necessarily furnished by the tenderer:

- a)** NPSH required by the Pump at Duty Point.
- b)** Guaranteed Pump Efficiency at Duty Point without negative tolerance [the maximum pump efficiently shall be selected at the Duty Point]. The words "Without Negative Tolerance" must accompany the efficiency curve while quoting the guaranteed efficiency. **However, no credit shall be given, while evaluation of tender, for quoting guaranteed pump efficiency at Duty Point without negative tolerance in excess of 80%.**
- c)** The tenderer shall indicate the minimum guaranteed pump efficiency which shall not be subject to any tolerance.

## **B. PUMP DRIVE (MOTOR)**

- i. Pump shall be driven by a direct connected Horizontal, indoor, three phase, AC Electric Motor of Specifications detailed in Annexure "C".
- ii. The Motor shall conform to IS: 325, IS: 2254, and IS: 4722 with up to date amendments.
- iii. The Motor shall be capable of starting and accelerating to the rated speed along with the driven equipment without exceeding the allowable winding temperature, and temperature rise shall not exceed the permissible limit even in case of sustained overload of 10%.
- iv. Motor shall be capable of withstanding the electro-dynamic stresses and heating imposed if it is started at a voltage of 110% of the rated voltage.
- v. The motor shall not get overloaded at any point of operation of the pump on its characteristic curve from shut off to run out and including starting up.
- vi. The motor characteristics shall be such that when put on the line with the lowest voltage and sluice valve closed, its torque developed shall be sufficient to bring the pump to full speed on full load without overheating or tripping of the motor on load.

## **C. CONSTRUCTIONAL FEATURES OF MOTOR:**

### **i. Stator:**

Stator Frame and all external parts of the motor shall be of rigid fabricated steel casting. They shall be suitable annealed to eliminate any residual stresses casting. They shall be suitable annealed to eliminate any residual stresses introduced during the process of fabrication and machining.

#### **Stator Core:**

The Stator laminations shall be made from suitable grade magnetic sheet varnished on both sides, pressed and clamped adequately to reduce the core and teeth vibration to minimum.

### **ii. Insulation & Winding:**

- a) All insulated winding conductors shall be of copper with conventional Class "F" type. The windings shall be suitable for successful operation in hot, humid conditions with the ambient temperature of 36oC. The insulation shall be given fungicidal and tropical treatment as per IS: 3202.
- b) Any joints in the motor insulation such as at coil terminals, or between slot and end winding section, shall have strength equivalent to that of slot section of the coil.
- c) The motor assembly shall be impregnated by completely submerging core and windings in suitable insulating media/varnish after the coils are placed in slots and all connections are made, followed by proper banking. The process shall be repeated at least twice more.

### **iii. Rotor:**

- a) Rotor shall be adequately designed to avoid overheating during the starting and running conditions stipulated above.
- b) Rotor shall be properly balanced so as to keep the vibration during running under stipulated limits.
- c) Rotor shall be for rigid core construction with the bars firmly secured and solidly bounded to the end rings. The end rings assembly shall be such that it is free to move with the expansion of the bars without distortion. The connections of the bars to the end rings shall be made by brazing or fusion welding.
- d) Rotor shall be designed to keep the combined critical speed with the driven pump away from the running speed by at least 20%.  
Rotor shall be designed to withstand the maximum reverse rotation of the pump.

### **iv. Bearings:**

Suitable grease lubricated bearings shall be provided as per the capacity and the loading conditions.

### **v. Terminal Box & Leads:**

- a) Terminal Box shall be complete with all accessories for connecting external cables, and shall be designed for the current carrying capacity and shall ensure ample phase to phase and phase to ground clearance.
- b) Terminal Box shall be of weather proof construction designed for outdoor service.
- c) Terminals shall be marked as per IS: 4728



**vi. Coupling:**

The pump shall be directly coupled to the motor through a heavy solid steel coupling, and the type of coupling, its design, arrangement, specifications, permissible percent misalignment shall be fully described by the tenderer. The coupling shall have a capacity of 50% over the rated motor capacity. Both coupling flanges shall be dynamically balanced, exactly machine matched and faced, with matching drilled holes for steel bolts. Steel bolts shall be provided with locking devices.

**vii. Lifting Hooks and Earthing:**

Motor shall be provided with two suitable lifting hooks and two earthing terminals.

**viii.** The following information shall be necessarily furnished in respect of Motors:

- a) Full load current and power factor of the motor.
- b) Current and power factor at duty pint
- c) Minimum guaranteed efficiency of the motor at duty point, at ½ load, and at ¾ load without tolerance.

**However, no credit shall be given, while evaluation of tenders, for quoting Guaranteed Motor Efficiency at Duty Point without negative tolerance in excess of 88%.**

- d) Frame size and weight of motor.

*The equipment shall be shop tested at full speed to prove compliance with the guarantee condition as stipulated in data sheets and the minimum guaranteed power consumption at motor input terminals under rated operating conditions.*

Sd/-  
Technical Officer

Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla



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Tender Document of NIT No: E-57 of 2018-19  
Issued under No. MIDB/CC-02/2647-2656, dated: 07-01-2019  
Annexure "B2"

Technical Specifications

For S. No. 01: Design, Manufacture, supply, Installation, Testing and commissioning of 02 cusec capacity, 100 Meter Dynamic Head, Horizontal Centrifugal Pump coupled to 120 HP motor or corresponding to head & discharge for Lift Irrigation Scheme Jabla Slamabad Khul.

[A] PUMP:

S. No.	Description	NIT Requirement	Tenderer's confirmation	Signature of Tenderer
1.	Make	WPIL/Kirlosker/Mather & Platt/ Flowmore/Jyoti, Xylem		
2.	Model	To be quoted		
3.	Type	Horizontal, Mixed Flow		
4.	Discharge	<b>02 Cusec</b>		
5.	Total Dynamic Head	<b>100 Mtr.</b>		
6.	No. of Stages	To be quoted		
7.	Pump Efficiency	To be quoted [Frozen at 80%]		
8.	Speed of Pump	1480- RPM		
9.	NPSHA at site	<b>2.80 Mtr.</b>		
10.	NPSHR at duty point	To be quoted		
11.	Pump Suction Diameter	To be quoted		
12.	Impeller	Stainless steel (relevant grade to be quoted)		
13.	Impeller Nut	Stainless Steel (relevant grade to be quoted)		
14.	Casing Liners	Bronze Grade V as per IS : 318		
15.	Impeller Shaft	Stainless Steel AISI : 410		
16.	Stuffing Box	Bronze Grade V as per IS : 318		
17.	Gland	Bronze Grade V as per IS : 318		
18.	Bolts & Nuts	High Tensile Steel		
19.	Shaft Sleeves	Stainless Steel AISI : 401		
20.	Pump Casing	Cast Iron		
21.	Base Frame	Mild Steel Fabricated		

Sd/-  
Technical Officer

Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla

Seal and signature of the bidder

**[B] MOTOR:**

<b>S. No.</b>	<b>Description</b>	<b>NIT Requirement</b>	<b>Tenderer's confirmation</b>	<b>Signature of Tenderer</b>
1.	Type	Three Phase, Squirrel Cage, Electric Induction Motor		
2	Make	KBL/Jyoti/Havells/ Siemens		
3	Frame Size	To be quoted		
4	Horse Power	120 HP		
5	Model	To be quoted		
6	Speed	1480- RPM		
7	Type	Horizontal		
8	Enclosure	SPDP/TEFC		
9	Rated Voltage	415 ± 10%		
10	Designed Frequency	50 ± 3%		
11	Class of Insulation	'F''		
12	Type of Duty	Continuous		
13	Motor Efficiency	To be quoted at Duty Point, [Frozen at 80%] full load 75% load & 50% load.		

Sd/-  
Technical Officer

Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla

Seal and signature of the bidder



ازدفتر ایگزیکٹیو انجینئر میکینکل اریگیشن ڈویژن بaramولہ  
OFFICE OF THE EXECUTIVE ENGINEER  
Mechanical Irrigation Division Baramulla

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Tender Document of NIT No: E-57 of 2018-19  
Issued under No. MIDB/CC-02/2647-2656, dated: 07-01-2019

**(Annexure "C")**

**Subject:** "Design, Manufacture, supply, Installation, Testing and commissioning of 02 cusec capacity, 100 Meter Dynamic Head, Horizontal Centrifugal Pump coupled to 120 HP motor or corresponding to head & discharge for Lift Irrigation Scheme Jabla Slamabad Khul

**[PRICE BID]**

**[A] PUMPING UNIT:**

S. No.	Description	Qty.	Rate (to be quoted by the tenderer)	Amount (to be quoted by the tenderer)
1.	Design, Manufacture, Supply, Installation, Testing and Commissioning of Electric Motor Driven Horizontal Pumping Unit [02 Cusec Capacity coupled to 120 HP Motor, 100 mtrs. Dynamic Head on a common base frame] for <b><u>Jabla Salambad Khul Lift Irrigation Scheme</u></b> F.O.R. site inclusive of, CGST, SGST, packing, forwarding, freight (by road, transport from manufacturers works up to the site of installation), un-loading, transit insurance, toll, octroy and all other levies and taxes, whatsoever applicable.	02 Units	Rs. _____ Each Unit	Rs _____

Sd/-  
Technical Officer

Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla

Seal and signature of the bidder



از دفتر ایکزیکیوٹیو انجینیر میکانیکل اریگیشن ڈویژن بارمولہ  
OFFICE OF THE EXECUTIVE ENGINEER  
Mechanical Irrigation Division Baramulla

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Tender Document of NIT No: E-57 of 2018-19, Issued under No. MIDB/CC-02/2647-2656, dated: 07-01-2019

**Annexure “D”**

**Commercial Terms and conditions**

S. No.	Particulars	NIT requirements	Tenderers' Conformation	Seal and Signature of the tenderer
1.	Validity of offer	180 days from the date of opening of tenders	Conformed/Not Conformed	
2.	Time of completion	Job is to be completed within <b>90 days</b>	Conformed/Not Conformed	
3.	Terms of payment	<b>Terms of payment for procurement of fresh items:</b> i) 75% of payment shall be released only after receipt of material in full and verification thereof, subject to availability of funds. ii) 15% shall be released after installation, testing and successful commissioning at site. iii) Remaining 10% shall be kept in deposit and will be released after the defective liability period as stipulated in tender document is over. iv) No part payment against any item shall be released. <b>Terms of payment for repairing of equipment:</b> i) 100% of payment shall be released only after re-installation, testing and successful commissioning at site	Conformed/Not Conformed	
4.	Prices	Prices quoted shall be F.O.R. delivery at site of installation inclusive of CGST, SGST, packing, forwarding, freight, unloading, transit insurance, toll, octroy and all other levies and taxes, whatsoever applicable.	Conformed/Not Conformed	
5.	All other terms and conditions of NIT.		Agreed / Not Agreed	

**Note:**

The tenderers are requested to provide all the information only on this format. The tenderer shall note that even one missing information shall make their tender invalid and their price bid of the tender document shall not be opened.

Sd/-  
Technical Officer

Sd/-  
Executive Engineer  
Mechanical Irrigation Division  
Baramulla

**Annexure “E”**

**Form F.C.2**

*(See Rule 2.9)*

**Serial No.**

{**Note: - No challan will be entertained unless it is properly filled up**}

**CHALLAN FORWARDING MONEY (OTHER THAN THAT OF LAND REVENUE) FOR DEPOSIT INTO ANY GOVT. TREASURY.**

**Counterfoil**

*{ To be filled in by the Depositor }*

By whom tendered  Name	Name or designation and address of person on whose behalf money is paid	Particulars of remittance and of authority (if any)	Amount		Account head to which creditable		
			Rs.	P.	Major	Minor	Detailed
	<i>Executive Engineer Mechanical Irrigation Division Baramulla</i>			.00	<b>MH-0702 in favour of Executive Engineer Mechanical Irrigation Division Baramulla on account of <u>Tender fee</u></b>		
<b>Total:</b>				.00	In word Rupees: _____ _____ _____		

\*In case of amounts to be credited to “Debt Head-T, Deposits and Advances-Account-Recoveries of Income Payments”.

**REFERENCE TO ORIGINAL DRAWS OUT OF WHICH REFUNDED**

Amount Drawn		Name of Treasury	Date of Drawl and voucher No.	Account Head			Amount Refunded		Remarks
Rs.	P.			Major	Minor	Detailed	Rs.	P.	

<b>Treasury Officer</b> Please receive the above amount  Dated: _____				Depositor { Signature _____ Designation _____				
--	--	--	--	--	--	--	--	--

<b>Manager</b> J & K Bank Ltd./Treasurer		<b>Received</b>			Received the sum specified above and credited to the heads as shown.				
Please receive Treasury officer  Dated: _____		<b>Manager</b> J & K Bank Ltd./Treasurer  Dated: _____			Accountant Dated: _____		Treasury officer Dated: _____		Item No.: _____

