

CHAPTER-I

1.1.0 BRIEF PARTICULARS OF THE WORK

1.1.1 Salient details of work for which bids are invited are as under:

Sl. No.	Name of work	Estimated value (approx)	Earnest Money	Time of completion
1	Construction of sluice regulator at Dusutimukh & Associated works (under Borbhag Drainage Development Scheme).	Rs.763.96 lakhs	2% of estimated value	18 months

1.1.2 The work is situated at Dusutimukh (on Suthajan Channel) in Borbhag Village under Borbhag Revenue Circle, Nalbari District, Assam.

1.1.3 General features and major components of the work are as under:

- i) PCC in prop. 1:3:6 = 947.06cum
- ii) RCC (M 20) = 4604.85 cum
- iii) RCC (M 30) = 36.48 cum
- iv) Reinforcement (TMT bar)= 47.94 ton
- v) Earthwork in excavation for foundation & diversion channel= 88985 cum
- vi) Earthwork in filling in embankment & approach= 59563 cum

1.1.4 Work shall be executed according to General Conditions of Contract for CPWD Form-8. The bidder may see the General Conditions of Contract of CPWD Form-8 in the office of the Chief Engineer (I&W) during office hours.

Chief Engineer (I&W)
Brahmaputra Board

2.0.0 INFORMATION AND INSTRUCTIONS TO BIDDERS

2.1.0 GENERAL

- 2.1.1 Letter of transmittal and forms for deciding eligibility are given in Section-III.
- 2.1.2 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a “nil” or “no such case” entry should be made in that column. If any particulars/ query are not applicable in case of the bidder, it should be stated as “not applicable”. The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms, or, deliberately suppressing the information may result in the bid being summarily disqualified. Bids made by telegram or telex or those received late will not be entertained.
- 2.1.3 The bid should be typewritten. The bidder should sign each page of the application.
- 2.1.4 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the eligibility criteria document are numbered. Additional sheets, if any added by the contractor, should be in bidder’s letterhead, numbered and signed by him. They should be submitted as a package with signed letter of transmittal.
- 2.1.5 Reference, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 2.1.6 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of eligibility criteria document unless it is called for by the Employer.
- 2.1.7 Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/ taking up of work in Brahmaputra Board.

CHAPTER-II

ITEM RATE TENDER & CONTRACT General Rules and Directions

1. This form will state the work to be carried out as well as the quantity of the work to be executed, time of completion and percentage of security deposit to be deducted from the bills of the successful tenderers. Copies of the specifications, designs and drawings, the schedule of quantities of work and any other documents required in connection with the work are signed for the purpose of identification by the Chief Engineer (I&W) shall also be open for inspection by the contractor at the office of the Chief Engineer (I&W) during office hours.
2. In the event of the tender being submitted by a firm, it must be signed separately by each partner hereof or in the event of the absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender and it must disclose that the firm is duly registered under the Indian Partnership Act, giving a copy of such registration document.
3. Receipt of payments made on account of a work when executed by a firm must also be signed by the several partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.
4. Any person who submits a tender shall fill up the usual printed form stating at what rate (both in words and figures) he is willing to undertake each item of the work. Tenders which propose any alternation in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work or which other conditions of any sort will be liable to rejection.
 - 4-A. The rate(s) and or amount (s) must be quoted out to two decimal coinage.
 - 4-B. The Contractors/ bidders should quote rates considering the latest Govt. orders / Circulars/ Notifications on taxes, cess etc. as applicable which are to be deducted at source from bill.
5. The tenders shall be opened by the Tender Committee in presence of intending contractors who may be present at the time and will enter the amounts of the several tenders in comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money forwarded herewith shall there upon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents. In the event of a tender being rejected the earnest money forwarded with such unaccepted tender shall thereupon be returned to the contractor remitting the same.

6. The officer inviting tenders shall have the right of rejecting all or any of the tenders, and will not be bound to accept the lowest tender.

7. Performance Guarantee: The successful contractor shall be required to deposit an amount equal to 5% of the tendered value of the work as performance guarantee in the form of an irrevocable bank guarantee bond of any scheduled bank or State Bank of India in accordance with the form prescribed or in cash or in the form of Govt. security, fixed deposit receipt etc. as in the case of recovery of security deposit within 15 days of the issue of letter of intent but before award of work. Performance guarantee shall be released after satisfactory completion of work in all respect plus 60 days beyond based on "Completion Certificate" signed by the competent authority.

8. If it is found that the tender is not submitted in a proper manner or contains too much corrections and/ or absurd rates of amounts it would be open for the Brahmaputra Board to reject the tender without assigning any reason.

9. The tenderers shall sign a declaration under the official secret act for maintaining secrecy of the tender documents drawing, other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings, if any, given to them.

:DECLARATION:

I/ We hereby declare that I/ We shall treat the tender documents, drawings and other records connected with the work as secret/ confidential documents and shall not communicate information/ derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudice to the safety of the same.

Signature of contractor

ITEM RATE TENDER FOR WORKS

I/ We hereby tender for the execution for the work specified in the underwritten memorandum within the time specified in such memorandum at the rates specified in figures and words in the attached schedule of quantities on **page ... to ...** and in accordance in all respect with the specifications, designs, drawings and instructions in writing referred to the attached schedule of quantity and in clause 11 of the conditions of contract of CPWD 8 and with such materials as are provided for and in all respects in accordance with such conditions so far as applicable Memorandum.

- a) Location of work: - Dusutimukh (on Suthajan Channel) in Borbhag Village under Borbhag Revenue Circle, Nalbari District, Assam.
- b) Name of work: - Construction of sluice regulator at Dusutimukh & Associated works (under Borbhag Drainage Development Scheme).
- c) Estimated value: - Rs.763.96 lakhs
- d) Time of completion: - 18 months
- e) Earnest Money: - 2% of Estimated value.
- f) Security Deposit: - The security deposit will be at uniform rate of 5% of the estimated cost put to tender/ works value, this supersedes corresponding clause of CPWD Form No.8

The security deposit will be collected by deductions from the running bills of contractor at the rates mentioned above and the earnest money deposited at the time of tender will be treated as part of security deposit.

The security deposit will also be accepted in one of the forms given below subject to the conditions as prescribed under rule:

- I. Promissory notes and stock certificates of Central Govt. or State Govt.
- II. Post Office cash Certificate, National Saving Certificate, Treasury Saving Certificate, National Plan Saving Certificate, 12 Yr. National Defence Certificates & 10 Yr. Defence Deposit Certificates.
- III. Post Office Saving Bank Pass Book.
- IV. Debenture or post Trust Bonds.
- V. Deposit Receipts of recognized Bank approved by Govt. for the purpose.
- VI. Deposit Receipts of Nationalized bank of India

Time allowed for the work will be counted from the 10th day after the date of written order to commence the work.

Should this tender be accepted in whole or in part, I/We hereby agree (i) to abide by and fulfill all the terms and provisions of the said conditions annexed hereto and all the terms and provisions contained in notice inviting tender so far as applicable and/or in default thereof to forfeit and pay to the Chief Engineer (I&W), Brahmaputra Board or his successors in office the sum of money mentioned in the said conditions.

If I/ We fail to commence the work specified in the above Memorandum, I/We agree that the said Chief Engineer (I&W), Brahmaputra Board or his successors in office shall without prejudice any other right of remedy be at liberty to forfeit the said earnest money absolutely, otherwise the said earnest money shall be retained by him towards security deposit.

- (i) To execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviation as may be ordered upto a maximum of fifty percent at and here in after termed as the deviation limit of tenders. The rate quoted in the tender documents and those in excess of that limit at the rates to be determined in accordance with provision contained in clause- 12 A of the tender form.
- (ii) If any tenderer withdraws his tender within the validity period or makes any modifications in the terms and conditions of the tender which are not acceptable to the Board, then the Board shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money.

I/ We agree that should I/ we fail to commence the work specified in the above Memorandum, an amount equal to the amount of the earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the Brahmaputra Board and the same may at the option of the Brahmaputra Board be recovered out of the deposit in so far as the same may extend in terms of the said Bond and in the event of deficiency out of any other moneys due to me/ us or otherwise.

Signature of Contractor

CHAPTER-III

Terms and conditions of contract

1. The tenders will be drawn up in CPWD tender form No.8 for acceptance. The conditions of contract as detailed of CPWD form No.8 will be applicable for the execution of the contract except where indicated.
2. Validity of rate will be 90 (ninety) days only, for acceptance of tender after opening of Financial bids/ Tenders as the case may be.
3. All rates should be quoted on the proper form of the tender alone.
4. Any item rate tender containing percentage below/ above will be summarily rejected. Any rebate conditional or unconditional will be liable for rejection as per section 20 of CPWD manual Vol. II. However, where a tender voluntarily offers a rebate for payment within a stipulated period this may be considered. The rebate thus offered will not be counted for condition of the bid(s).
5. Special care should be taken to write the rates in figures as well as in words and the amounts in figures only in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs.' should be written before the figures of rupees and word 'P' after the decimal figures e.g. Rs. 2.51 p and in case of words, the word 'Rupees' should precede and the words 'paisa' should be written at the end, Unless the rates are in whole rupees and followed by the word 'only' it should invariably be upto two decimal place while quoting the rate. In schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.
6. The Brahmaputra Board is not bound to accept the lowest tender or any other tender and reserves the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
7. Forest Royalty, Sales Tax or any other tax on material in respect of this contract shall be payable by the contractor and Brahmaputra Board will not entertain any claim whatsoever in this respect.
8. Rate should be quoted inclusive of all taxes including VAT as applicable & all other charges/ cost involved in the work and no separate demand for transportation charges upto place of delivery of materials will be entertained.
9. The contractor shall give a list of staff of Brahmaputra Board employees related to him.
10. It will be obligatory on the part of the tenderer to tender and sign the tender documents for all the component parts and that after the work is awarded, he will have to enter into an agreement for each component with the competent officer concerned.

11. Before tendering, the contractor shall visit the site at his own cost and satisfy himself as to the conditions prevalent at the same. The site for the work shall be made available within 7(Seven) days after the date of issue of the letter of acceptance of tender.

He should also see all drawings and in case of doubt obtain required particulars from Executive Engineer concerned which may in any way influence his tender as no claim whatsoever shall be entertained for any alleged ignorance thereof. In case of two/ three bid system, a pre-bid meeting will be held 3/4 days before the submission of tender documents to clarify various points that may rise at the point of time. However it will be separately intimated.

12. If on check there are difference observes between the rates quoted by the contractor in words and figures or in the amount worked out by him the following procedure shall be followed.

i) When there is a difference between rates in figures and in words, the rates which correspond to the words shall be taken as correct.

ii) When the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words, then the rate quoted by the contractor in words shall be taken as correct.

13. If it is found that the tender is not submitted in proper manner or contains too many corrections or absurd rates are quoted, it would then be open for the Brahmaputra Board to take suitable action against the contractor. In case it is found that for a particular item rate is not quoted than the highest quoted rate(s) of the bidders will be considered for evaluation of the tender & if work is allotted to him which is remote the lowest quoted rate(s) including estimated rate will be offered which shall be binding.

14. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Govt. of India is allowed to work as a contractor for a period of two years after his retirement from Govt. Service, without the previous permission of the Government of India In writing. This Contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Govt. Of India as aforesaid before submission of the tender or engagement in the contractors service.

15. The tender must associate with himself agencies of the appropriate class eligible to tender for the other components individually.

CHAPTER NO. IV

SPECIAL CONDITON FOR EARTHWORK

1. Payment of earthwork will be made as per section measurement and not on borrow pits (except for petty repairing works) for which 10% deduction will be made from quantity on a/c of shrinkage.
2. Contractor or his authorized agent will have to remain present during recording of initial & final measurement & shall have to sign the same in the M.B/ S.M.B. as a token of his acceptance of the levels/measurement. No earthwork should be done before recording of the initial measurement.
3. If the contractor fails to attend measurement in spite of written notice issued to him by Asstt. Executive Engineer or Executive Engineer, measurement will be recorded in his absence and the contractor shall have no complain what so ever on it.
4. Any work executed by the contractor before signing the formal tender agreement and before recording of initial measurement, shall be declared as unauthorized work and no payment thereof will be entertained by the Department.
5. All borrow pits should be made on the river side keeping a minimum distance of 30m from the toe of embankment. The borrow pits made on country side and within 30m on the river side without special written permission shall have to be refilled by the contractor at his cost, failing which the cost of filling up the same Departmentally will be recovered from the contractors bill including 15% Departmental supervision charge.
6. The seat of the embankment and the seat of the borrow pit shall be cleared off all vegetations, otherwise this will be done by the department at contractors cost.
7. Local flood & draught affected peoples should be engaged in the work as far as possible.
8. If the contractor fails to make arrangement for proper ramming and dressing as per specification, the same will be done departmentally and cost thereof together with 15% supervision charge will be recovered from the bill.
9. Necessary arrangement for bamboo pegs, jute string, coir string etc, required for profiles will be made by the contractor at his own cost.
10. In case of earth work on stack measurement system 12.5% (twelve and half percent) deduction will be made for shrinkage. A certificate will be required to this effect by the preparing officer that measured quantity of stack has been spread as per specification.

11. Requirement of earth to be filled up in the embankment will have to be arranged by the contractor himself at his own cost. For borrowing earth from private pattaders, necessary compensation shall be paid by the contractors on mutual arrangement and the Department will not take any responsibility for reimbursing such payment.
12. Any maintenance required for the embankment/road cum embankment during construction shall have to be done by the contractor himself at his own cost.
13. Necessary Forest Royalty, Sale Tax etc should be paid for collection of Boulder/metal/sand gravel etc, by the contractor himself. The contractor is to produce necessary documents from Forest Department of state Govt. Concerned for releasing payment etc, for the works carried out

CHAPTER-V

SPECIAL CONDITIONS OF CONTRACT

(1) Drawing

The drawings and specifications are to be considered as explanatory of each other and should anything appear in the one that is not described in the other no advantage shall be taken of such omission. Should any discrepancies, however, appear or should any misunderstanding of drawings, or as to the dimensions or the quality of the materials or the due and proper execution of the works or as to the measurement or quality or valuation of the work executed under this contract or as extra thereupon, the same shall be clarified by the Engineer-in-charge or his authorized representative and his explanation shall be binding upon the contractor and the contractor shall execute the works according to such clarification and without extra charge and shall also do all such works and things as may be directed by Engineer-in-charge or his authorized representative, being considered necessary for the proper completion of the works implied by the drawings and specifications, even through such works and things are not specially described in the said drawings and specifications. Supplementary dimensions or drawings may be given by the department in addition to those already given and changes may also be affected in them and the contractor will have to execute the works on the basis of the supplementary drawings or changed drawings and specifications, without any additional claim whatsoever.

(2) Start of work to be notified:

The contractor will notify the Engineer-in-charge in writing about his intention to start any item of work. The item of work will be taken up with the consent of the Engineer-in-charge who will verify whether there is enough stock of materials and other inputs/ machineries required for the item of work.

(3) Use of Construction facilities:

It is possible that other works at or in the vicinity of the site will be preformed by the department or by other contractor during the period of time allowed for the performance of the work under these specifications. The contractor shall permit full use, (without charge thereof) by the department and or other contractors, of roads, bridges, foot bridges, lighting and such other facilities constructed by the contractor for use in the performance of the contract without direct additional cost to the contract.

(4) Climatic conditions:

The Engineer-in-charge may order the contractor to suspend any work that may be subject to damage by climatic condition.

(5) Right of way:

The site for the installation of machinery or the right of way for the works to be constructed under this contract and for necessary stacking site, borrow pits, channels, spoil banks, ditches, roads etc, will be arranged by the contractor after consultations with the department.

(6) Date to be furnished by the contractor:-

The contractor shall submit the following information to the Engineer-in-charge/Chief engineer (I&W) within the period specified in each case.

The proposed construction program and time schedule showing sequence of operations in the form of CPM chart within **thirty** days after the date of receipt of notice to proceed with the work (formal work order).

(7) Permits for materials:

The department may assist in arranging permits for construction materials, priorities for transport by road, rail or steamer or written request but will not entertain any claim for compensation for any delay in obtaining such materials which however, may be considered in giving extension of time only.

(8) Supply details:-

Before the dispatch of any materials to be supplied by him, the contractor shall duly notify the Executive Engineer regarding the source of supply and the route over which such materials is to be transported.

(9) Leviable charges:

The following charges, where leviable are payable by the contractor:

- a. Forest Department Road Toll for materials transported through Forest Department Road.
- b. Royalty/ Monopoly on all forest produce used like Boulder, aggregates, timber, bamboo thatch etc.
- c. Demurrage of wherever, if so levied due to contractor's fault.
- d. Sales tax on all materials purchased if it is applicable on them.
- e. Compensation for damage, use or appropriation of private property.

Such charges, if any, will be recovered by the Department from the Contractor and will be paid to the department concerned. Any charges in rates for forest royalty, sales tax etc, during the tenure of the work will be borne by the contractor.

(10) Unless otherwise specified, all tender item rates are inclusive of the supply of materials and all handling and transport charges to work.

- (11) When the Engineer-in-charge accepts a power of attorney executed by a contractor as conferring authority on a bank to receive payment on his behalf, all payment under the contract may be made direct to the bank. On contractor's own acceptance of the correctness of the amount made out as being due to him by the Department, but in case of dispute between the contractor and the bank all dues to the contractor will be kept in deposit till the contractor and the bank (through an authorized agent) arrive at an amicable settlement or either party established its claim by recourse of law.
- (12) Measurements:
Measurements of height/depth will be calculated from reduced levels wherever practicable.

13. Quality control test

Following quality control tests are to be conducted during execution of the work:

<i>Material</i>	<i>Clause</i>	<i>Test</i>	<i>Field laboratory test</i>	<i>Test procedure</i>	<i>Min, quantity of materials for carrying out the test</i>	<i>Frequency of testing</i>
1	2	3	4	5	6	7
Reinforced cement concrete (Nominal Mix)	5.4.1	(a) Slump test	Field/Lab	Appendix 'D' of Chapter 4	(i) 5 cum in case of column ii) 20 cum for slabs, beams and connected columns (iii) 20 cum for other R.C.C. work for all other small items and where R.C.C. done in a day is less than 5 cum test may be carried out as required by Engineer-in-Charge	(i) Every 5 cum of part thereof (ii) Every 20 cum or part thereof iii) -Do-
	5.4.9.1	(b) Cube Test	Lab	Appendix 'A'	(i) 5 cum in case of column (ii) 20 cum for slabs, beams and Connected columns (iii) 20 cum for other R.C.C. work for all other small items and where R.C.C. done in a day is less than 5 cum test may be carried out as required by Engineer-in- Charge	(i) Every 5 cum or part thereof ii) Every 20cum or part thereof (iii) –Do-

Reinforced Cement Concrete (Design Mix)	Coarse Aggregat es				50 cum or part thereof & also on each change of source	
	Fine Aggregat es				50 cum or part thereof & also on each change of source	
	Cement				50 MT or on each change of source	
	Fresh concrete	(a) Slump test	Field	Appendix 'D' of Chapter 4	10 cum	50 cum for R.C.C. work including in all other small location. R.C.C. done in a day is less than 50 cum test may be carried out as required by Engineer- in- Charge
	Fresh concrete	(b) Slump test	Lab	Appendix 'A'	10 cum or part thereof	50 cum or 10 batches of 5-7 cum each for R.C.C. work in all location taken together. R.C.C. done in a day is less than 50 cum test may be carried out as required by Engineer- in-Charge
Reinforced Cement Concrete (Ready Mix)	Coarse Aggregat es				50 cum or part thereof & also on each change of source	
	Fine Aggregat es				50 cum or part thereof & also on each change of source	
	Cement				50 MT or on each change of source	

	Fresh Concrete	(a) Slump test	Field/Lab	Appendix of chapter-4	10 cm	50 cum for R.C.C. work including in all other small location. R.C.C. done in a day is less than 50 cum test may be carried out as required by Engineer-in-Charge	
	Fresh Concrete	(b) Cube test	Lab	Appendix 'A'	10 cum or part there of	50 cum or 10 batches of 5-7 cum each for R.C.C. work in all location – taken together. R.C.C. done in a day is less than 50 cum test may be carried out as required by Engineer-in- Charge	
Steel for Reinforced cement concrete	5.1.3	(A) Physical Test and chemical tests				(a) For Consignment below 100 tones	(b) For consignment over 100 tones
						(i) under 10 mm dia, one sample for each 25 Tones or part thereof	i) Under 10 mm dia, One sample for each 40 tones or part thereof
						(ii) 10 mm to 16 mm dia one sample for each 35 tones or part thereof	(ii) 10 mm to 16 mm, one sample or each 45 tones or part thereof

						(iii) over 16 mm dia one sample for each 45 tones or part thereof	(iii) over 16 mm dia, one Sample for Each 50 Tones or part thereof
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NB: 1. All specification, clause, test procedure etc are with reference to "CPWD Specification Vol-I, 2009"

2. In case of RCC work in Sluice, following may be followed--(i) For Abutment & Wing wall--Same norms as for columns. (ii) For Slab & Foundation---Same norms as for slab.

3. Laboratory tests are to done at Govt. recognized laboratory such as Assam Engineering College, IIT Guwahati, NEHARI, River Research Laboratory of WRD, Assam etc.

- (14) (a) The contractor shall construct suitable go-down, stacking site at the site of work for storing the materials safe against damage of sun, rain, dampness, fire, theft etc, at his own cost.
- (b) The contractor shall also employ necessary watch and ward establishment for the purpose at his own cost.
- (c) The materials are to be stacked in a proper level ground with measurable stack and every stacked should be marked with white paint at the toe of the stack with serial number. Before utilization, the stack are to be measured and the stack number is to be noted in presence of Engineer-in-charge/sit Engineer of the Department in register. The location of such stack/stockyard shall be selected in consultation with site Engineer. The rent etc for stockyard is the responsibility of the contractor. In case of necessity for shifting of stacked boulder/ materials due to any reason before their laying at a safe distance from the river bank and the same will be carried out by the contractor at his own cost.
- (d) Before utilization in work the quality of materials are to be ascertained. If directed, materials shall be tested in any approved testing laboratory and the test certificate in original shall be submitted to the Engineer-in-charge and the entire charges corrected with testing including charges for repeated tests, if ordered shall be borne by the contractor.
- (e) All equipment & facilities for carrying out field test on materials shall be provided by the contractor without any extra cost.
- (f) All materials supplied by the employer/any other specialist firm & materials of contractor for which advance is given by the Department shall be properly stored and the contractor shall be responsible for its safe custody until they are required on works and till the completion of works. The Board may also deploy its own personnel at such stockyard to oversee and supervise in the Boards interest.
- (15) Supply of machinery. No tools and plants/machineries will normally be supplied by the Department for the execution of the work. In case any T&P is available and is given to the contractor, necessary hire charges will be recovered from the running bills as per rates fixed by the Department.
- (16) The contractor must not sublet the work or any part of the work without the permission of the Chief Engineer (I&W), Brahmaputra Board.
- (17) No labourer under eighteen years of age shall be employed for the work and all labourers employed shall be paid at rates not less than generally paid for similar work in the neighborhood and as per minimum wage circular of the Labour Deptt. Govt. of Assam, Labour license shall be obtained by the contractor from the competent authority.

- (18) Labourer engaged by the contractor for unskilled/semi skilled should invariably be local people, wherever such people are available.
- (19) It will be bidder's responsibility to arrange for permit for collection of stones, river boulders, gravels, sand and other required materials and make payment for royalties for those. The Departments may however, help in arranging the permit if it is a government quarry but the contractor will have to pay the royalties as required.
- (20) All works shall have to be carried out as per specification in schedules of rates, relevant IS specification and Technical specification covered in the tender. In case of any variation or contradiction between specifications referred to above, the decision of the Chief Engineer (I&W) shall be applicable.
- (21) The contractor shall provide for necessary insurance as per workman compensation Act and also provide for 3rd party insurance risks.
- (22) The water and electricity required for construction and for their own camp purpose shall be arranged by the contractor.
- (23) Price variation:
The accepted tender rate/L.S. price shall remain firm for the entire period of construction and no price variation will be allowed even if there is change in labour wages, P.O.L. and cost of living index during entire construction period.
- (24) If arbitration arises, the jurisdiction will be the "Gauhati High Court".

CHAPTER-VI

SCHEDULE OF WORK

Name of work:-Construction of sluice regulator and its associated works at
Borbhag Drainage Development scheme.

Sl. No.	Item	Unit	Qty	Rate	
				In figure	In word
1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings and column, steps and septic tank etc including refilling (return filling) the quantity as necessary after completion of work breaking clods in return filling, dressing, watering and ramming etc and removal of surplus earth with all leads and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
	(A) up to a depth of 2m below the existing ground level.				
	a) In ordinary soil	cum	33340.02		
	a) Extra over item above for each 1m depth or part thereof beyond the initial depth of 2m.				
i	Beyond 2m up to 3m	cum	5413.27		
ii	Beyond 3m up to 4m	cum	1633.84		
iii	Beyond 4m up to 5m	cum	3267.68		
iv	Beyond 5m	cum	13869.13		
2	Earthwork by head load in filling in embankment in layers not exceeding 20cm thick including breaking clods, dressing and sectioning cambering and ramming within a lead up to 30m and lift up to 1.50m including payment of land compensation for obtaining earth (for plugging Suthajan Channel u/s & d/s and plugging of both end of diversion channel).				
	ii) Ordinary soil, basti land low marshy land	cum	3492.80		

3	Construction of sub grade and earthen shoulders with approved materials obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table 300-2 (including compensation of earth) (a) (Including cost of testing of materials at site and laboratory as directed by the deptt.)				
	(a) From private land (With one extra lead of 1.0km beyond initial lead of 3.0km).	cum	3951.77		
4	Plain cement concrete work with coarse aggregate of size 13mm to 32mm in foundation bed for footing, steps, walls, brick works etc as directed and specified including dewatering if necessary curing complete (shuttering where necessary shall be measured and paid separately).				
	(a) In prop 1 cement: 3 sand: 6 coarse aggregate by volume.	cum	947.06		
5	Providing form work of ordinary timber planking so as to give a rough finish including centering shuttering, strutting and propping etc, height of propping and centering below supporting floor to ceiling not exceeding 4.0m and removal of the same for in-situ reinforced concrete and plain concrete work in:				
	Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.				
	i) Using 38mm thick plank	sqm	1167.01		
6	Plain/ Reinforced cement concrete, in open foundation complete as per drawing and technical specifications.				
	C) RCC grade M 20 (using concrete mixture)	cum	3123.35		

7	15mm thick cement plaster in single coat on fair side of brick/concrete wall for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and/or rounded angles not exceeding 80mm in girth and finished even and smooth including curing etc, complete as directed in cement mortar 1:3	sqm	1018.01		
8	Earth/sand filling in plinth in layers not more than 150mm thick including necessary carriage watering ramming complete as directed and specified including payment of land compensation forest royalty sales tax and other duties and taxes as may be necessary. C) With river sand or silt (Predominantly non plastic) by truck carriage including loading and unloading.	cum	3693.70		
9	Plain/Reinforced cement concrete in sub structure complete as per drawing and technical specifications and steel shuttering form work. (E) RCC grade M20 using concrete mixture.				
	(a) Height up to 5.00m	cum	1455.27		
	b) Height from 5.00m to 10.00m.	cum	1455.27		
	(F) RCC grade M 30 using concrete mixture machine.				
	(b) Height 5.00m to 10.00m.	cum	36.48		

10	<p>Furnishing and placing Reinforced/ pre-stressed cement concrete in super structures as per drawing and technical specification including providing plasticizer (Masterplast PL-1/SPL-2 or equivalent) air entraining and water reducing plasticizer (Masterplast PAE or equivalent) and accelerating plasticizer (Masterplast ACPL or equivalent) conforming to IS-9103-1999 and steel shuttering form work.</p> <p>(A) RCC grade M20.</p> <p>ii) Using concrete mixture for T-Beam and slab</p> <p>(q) Height 5.00m to 10.00m.</p>				
		cum	26.23		
11	<p>Supplying, fitting and fixing in position reinforcement bars conforming to relevant IS code for RCC work/ RB walling including straightening, cleaning cutting and bending to proper shapes and length as per details, supplying and binding with 20C annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc complete (Up to 1st floor level)</p> <p>b) TMT bar (I) TATA/SAIL</p>				
		Qntl.	4794.00		
12	<p>Providing weep holes in brick masonry/ plain/ reinforced concrete abutment, wing/ Return wall with 100mm dia. AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing face, Complete as per drawing and technical specification.</p>				
		N o.	168		

13	Providing and laying filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. Of MoRTH specification to a thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind the abutment, wing wall and return wall to the full height compacted to firm condition complete as per drawing and technical specification.	cum	630.17		
14	Strip seal expansion joint (providing and laying strip seal expansion joint catering to maximum horizontal movement up to 70mm complete as per approved drawing and standard specification to be installed by the manufacturer/supplier or their authorized representative ensuring compliance to the manufacturer's instructions for installation) For expansion joint between abutment and retain wall as well as between deck slab and abutment wall (As per drawing).	m	67.98		
15	Providing and fixing in position 20mm thick pre-moulded joint filter in expansion joint for fixed ends of simply supported spans not exceeding 10m to cater for a horizontal movement up to 20mm, covered with sealant complete as per drawing and technical specification. For joint between deck slab (As per drawing).	m	194.00		
16	Drainage spouts complete as per drawing and technical specification.	Each	8		
17	PCC M 15 grade leveling course below approach slab complete as per drawing.	cum	10.185		

18	Buried joint (providing and laying a buried expansion joint, expansion gap being 20mm, covered with 12mm thick, 200mm wide galvanized weldable structural steel plate as per IS 2062 placed symmetrical to center line to the joint, resting freely over the top surface of the deck concrete, welding of 8mm dia. 100mm long galvanized nails spaced 300mm C/C along the center line of the plate, all as specified in clause 2604 (as per drawing)	M	4.85		
19	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and technical specification for u/s and d/s launching apron (to be laid dry and with out crates in u/s launching apron and d/s launching apron)	Cum	599.06		
20	Providing and laying pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and technical specification (in u/s and d/s slope protection).	Cum	1044.02		

21	<p>Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 ton per hour using crushed aggregates of specified grading, premixed with bituminous binder @ .5.4 to 5.6% of mix and filter, transporting the hot mix to work site, laying with a hydrostatic pavers finisher with sensor control to the required grade level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH clause no 509 complete in all respects. (including carriage up to initial lead of 5.0 km from the quarry and carriage of mixed materials up to 10.00 km initial lead from mixing plant) (including cost of testing of materials at site and laboratory as directed by the department). (For wearing coat of bridge slab)</p> <p>(A) With hydrated lime/cement as filter (refer table 500-9 of MoSRT&H specification)</p>				
	(ii) for grading-II (13mm nominal size)	Cum	5.09		
22	<p>Single bamboo spur and pal siding of whole 1st class bamboo (Bhaluka or Barua) 85mm to 100mm dia closely packed and driven, including fitting and fixing with half 2nd class bamboo (jati or Bethua) horizontally in three rows with cane or tying wire complete and struts 1500mm apart longitudinally and providing brush wood as per drawing and technical specification.</p>				

	(A) Driven at least 900mm below ground and 1800mm above ground on average. (at both faces of plugged portion of Suthajan channel at u/s and d/s of diversion channel, as per X-sectional drawing of channel)	Rm	400.00		
23	Curtain wall complete as per drawing and technical specification. (A) Stone masonry in cement mortar (1:3)	Cum	197.47		
24	Supplying fitting fixing RCC guard post of size 15cm dia, 150cm long, 75cm above ground and 75cm below the ground, with 4-12 mm tor steel main and 6mm MS stirrups at 30cm c/c tied in position with annealed black wire cement concrete proportion 1:2:4 with broken stone aggregate up to 20mm size including centering moulding the top curing, painted black and white alternately in 23 cm strips up to 0.75m from the top having reflective band 2 nos of desired shade etc as per design and direction complete.	Each	100		
25	Supply of sand bag (cost of sand and empty cement bags) for plugged portions of Suthajan channel at u/s and d/s of diversion channel.	No	9000		
26	Supplying of jute sutli for stitching the mouth of cement bags.	Kg	50.00		

27	Labour charge for laying and pitching of each fill cement bags including excavation and borrowing earth/sand filling in bags breaking clods, stitching the mouth with jute sutli complete as directed for initial lead of 30m and all lift, including three extra leads of 30m or part thereof. (Empty cement bages and jute sutli will be supplied by the department).	N o.	9000		
28	Supplying fitting fixing ISA 100x100x10 angle section as per drawing and specification.	Ton	0.41124		
29	Supplying, fitting and fixing M/S manually operated sluice gate including construction of hoisting arrangement as directed and as per drawing and specification.(2 Nos. of steel gate of size 3.00m x 4.00m)	Job	1		
30	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2(including compensation of earth) (including cost of testing of materials at site and laboratory as directed by the deptt.				
	(a) From private land.	cum	52377.56		
31	Furnishing and laying of the live sods of perennial turf forming grass on embankment slope verges or other locations shown on the drawing or as directed by the Engineer including preparation of ground fetching of rods and watering.	sqm	10464.80		

32	For diversion Channel-Earthwork in excavation for foundation trenches of walls, retaining walls, footing of columns, steps and septic tank etc, including refilling(return filling) the quantity as necessary after completion of work breaking clods in return filling dressing, watering and ramming etc and removal of surplus earth with all and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
(A) Up to a depth of 2 m below the existing ground level.					
a) In ordinary soil		Cum	18824.52		
I	Beyond 2.0m up to 3m	Cum	6160.50		
ii	Beyond 3.0m up to 4m	Cum	1080.92		
iii	Beyond 4.0m up to 5.0m	Cum	2167.84		
iv	Beyond 5.0m	cum.	3251.76		

Chief Engineer(I&W)

Signature of bidder

CHAPTER-VII

DEFINITIONS

For the purpose of this contract the following terms will have the meaning herein assigned to them.

- a) The Chief Engineer (I&W), of Brahmaputra Board, Basistha is the technical and administrative head of the work.
- b) The Engineer-in-charge is the Executive Engineer concerned
- c) The “Contractor” shall mean the person or firm undertaking to execute the works.
- d) The word “Work” whenever used in this document shall comprise not only works of construction but also all accessories there to.
- e) The ‘specifications’ shall mean specification mentioned in the design and drawings and relevant specification as per BIS codes.
- f) The working ‘Drawings’ shall mean collectively all the accompanying general drawings as well as all detailed drawings which may be used by the Board from time to time.
- g) Wherever figure are shown after the word ‘Elevation’/ ‘Reduced Level’ or an abbreviation thereof or when figures representing ‘Elevation’ or ‘Reduced level’ are given they shall mean the height in meter above the mean sea level.
- h) ‘Security Deposit’ shall mean all deposits whether in cash or Government securities or amounts mentioned in performance bonds pledged to the Board for adjustment in case of compensation or penalties and which may stand forfeited either in part or whole as the situation demands.
- i) ‘Department’ shall mean the Brahmaputra Board with Head office at Basistha Guwahati-781029, (Assam)

For Authorized use only

**GOVERNMENT OF INDIA
BRAHMAPUTRA BOARD
(MINISTRY OF WATER RESOURCES)
BASISTHA : GUWAHATI
PIN-781029**

**TENDER DOCUMENT
FINANCIAL BID**

Name of work:- Construction of sluice Regulator &
Associated works at Dusutimukh of
Borbhag Drainage Development Scheme.

Issued to

Issued by

BRAHMAPUTRA BOARD
BASISTHA: GUWAHATI-29

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