

**GOVERNMENT OF ODISHA
PANCHAYATIRAJ DEPARTMENT**



**PANCHAYAT SAMITI OFFICE, BONAIGARH,
DIST :- SUNDARGARH**

**Name of the Work :- Construciton / Renovation of Govt. U.G. High School,
Bhalupani GP, Bonaigarh Block in Sundargarh District.**

**Tender Amount :- Rs. 94,88,908.00 (Rupees ninety four lakhs eighty-
-eighty thousand nine hundred eight) only**

GOVERNMENT OF ODISHA

OFFICE OF THE BLOCK DEVELOPMENT OFFICER, BONAIGARH BLOCK, SUNDARGARH

EMAIL ID-ori-Bonaigarh@nic.in

INVITATION TENDER CALL NOTICE

No. 2639 /date.26.11.2021

The Block Development Officer, Bonaigarh, Sundargarh on behalf of Governor of Odisha invites **percentage rate Bids** in sealed cover for the following works from class of eligible contractors registered with the state Governments having validity of Civil License and contractors of equivalent grades/ Class registered with Central Govt. / MES/Railways and other state government having validity of Civil license. The eligible contractors of the state PWD (R&B) / Water Resources/ M.I./ C.P.W.D. for the following work eventually to be drawn up in the **P.W.D. P1 forms** in conformity with the with Detailed Tender Call Notice. The Bidders may submit bids for the following works.

Sl. No.	Location	Name of the Work	Estd. Cost (Rs. In Lakhs)	Amount put to tender(in Rs)	Cost of Tender Paper .(Non Refund able) in Rs.	Bid security /EMD	Date of Completion	Class of Contractor
1	Bhalupani GP	Construciton / Renovation of Govt. U.G. High School, Bhalupani GP, Bonaigarh Block in Sundargarh District	110.14	94,88,908.00	10000/-	Bid Security Declaration to be submitted as per Works Deptt. Letter No.5984/ dt.27/04/2021	6 Months	Class- "B" & Class- "A"

Terms & Conditions:-

1) **The Bid documents and detailed terms and conditions can be downloaded from 26/11/2021 to 10/12/2021 in the District website www.sundergarh.nic.in & published once in daily Odia News paper " The Samaj", "The Prameya". The Tender paper shall be submitted in double sealed cover Super scribing the Name of the Work & shall contain signed DTCN, Attested copy of Registration Certificate , Pan Card, GST Registration /Clearance Certificate , No relation Certificate & Original Affidavit regarding authentication of documents of Tender Notice , other documents required as per the relevant clauses of the DTCN, Tender paper cost (non refundable) in shape of Bank draft or Demand Draft drawn in favour of Block Development Officer , Bonaigarh and without which , Bid will not be Considered .The Tenderer are required to send their Tender papers through **Registered Post / Speed Post / Person Concern only** to the **Block Development Officer, Bonaigarh, At/Post-Bonaigarh, Dist – Sundargarh , Pin – 770038**, so as to reach this Office by **Dt. 10/12/2021** within **12.00 PM** after which no Bid will be considered. The Bids received later will not be accepted. The Authority will not be held responsible for the Postal delay if any or non-receipt of the Tender Documents in time.**

Signature of Contractor

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The Bidders have to submit the Tender documents in Double Cover/ Packet System (Technical Bid & Financial Bid) . Technical Bid Cover consists of Tender paper Cost, EMD, GSTIN,PAN, Contractor's RC, all Affidavits, all Undertakings/Declarations, list of machineries works in hand, joint venture agreement etc. Financial Bid Cover consists of Signed DTCN, BOQ, percentage rate quoted amount. Both sealed cover/packet must be super scribing name of the Work.

2). The Bids received will be opened on date **10/12/2021** at **03.00 PM** in the Office of the Block Development Officer, Bonaigarh in presence of the Bidders or their Authorised representatives wish to attend . If the Office happens to be closed on the date of receipt/ opening of the Bids as specified, the Bids will be opened on the next working day on the same time and Venue.

3) Detail information as contained in the DTCN shall have to be strictly adhere to while submitting the Tender papers.

4) Engineer Contractor desirous to avail the facility of exemption of EMD is required to submit an Affidavit in original to the effect that, he has not yet availed the facility for more than three works during the current Financial year . The name of work for which and the Authority to which the Tender is being submitted must be mentioned in the Affidavit.

5) Any Tenderer desirous to avail any facility as per certain circular/ order of Govt. have to apply for the same in writing along with the Tender paper . Claim at the time of opening of Tender or latter will not be entertained.

6) If any of the interesting Bidders wish to withdraw from participation in the Bid he/she can freely withdraw from the participation before scheduled date and time of closure, failing which action has deemed fit as per relevant Codal practice will be taken against him/ her.

7) **Additional Performance Security (APS)** :- Additional Performance Security shall be deposited by the Bidder where the Bid amount is seriously unbalanced i.e. less than the estimated cost within 15% in such case /event bidders have to deposit the APSD money . The detail slabs of APSD money may be followed as per revised letter 4559/W, Dt. 05/04/2021 of Works Department , Govt. of odisha.

8) If after opening of the Tender , it is seen that ,the Bid amount will be same then the Tender has to be decided through a transparent lottery system, in the same date in presence of the tenderer or their Authorised representatives in front of the Tender Opening Committee.

9) **The work should be completed within the stipulated period of completion and in no case the time extension will be allowed. The contract will be closed automatically once time period is lapsed. In this matter no communication will be made with the contractor and penalty will be imposed and Black listed the contractor as per provision in OPWD code .**

10) **The Authority reserves the right to reject any or all the Bids without assigning any reason.**

11) On review of last performance of the work executed through B.D.O. Bonaigarh, the lowest-1 tender may/ may not be considered for the works though he/she becomes lowest-1 bidder.

12).CGST & SGST will be paid beyond the Tender cost as applicable. All other detailed clauses / guidelines can be seen in the Bid documents

13. The work is to be completed in all respects within the time period as specified in the Contract Data. Bidders whose bid is accepted must submit a work programme at the time of execution of Agreement.

14. All bids received will remain valid for a period (90 days) as specified in the Contract Data after the deadline date for submission of bids and validity of bids can also be extended if agreed to by the bidder and the Department.

15. An applicant or any of its constituent partners of whose contract for any work has been rescinded or who has abandoned any work in the last five years, prior to the date of the bid, shall be debarred from qualification. The tenderer is to furnish an affidavit at the time of submission of tender paper about the authentication of tender documents including Bank guarantee. **An affidavit** to this effect is to be furnished in **Schedule-F**. Non furnishing of the information in **Schedule - E** and required affidavit in **Schedule – F**, the bid document will be **summararily rejected**.

16. **No Relation certificate.**

The contractor shall furnish a certificate along with the tender to the effect that he is not related to any officer in the rank of an Assistant Engineer & above in the state P.W.D. or Assistant/Under Secretary & above in the Works Department. If the fact subsequently proved to be false, the contract is liable to be rescinded. The earnest money & the total security will be forfeited & he shall be liable to make good the loss or damages resulting for such cancellations. The proforma for no relationship certificate is contained in a separate sheet vide Schedule-A.

17. (i) Each tenderer is to submit along with tender a note regarding his experience on construction of Road/Bridge Works.

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- (v) The quality mentioned can be increased or reduced to the extent of 10% for individual items subject to a maximum of 5% over the estimated cost . If it exceeds the limit stated above prior approval of competent authority is mandatory before making any payment .
- (vi) The period of completion is fixed and can not be altered except in case of exceptional circumstances with due approval of next higher authority.
- (vii) Bills for percentage rate tenders shall be prepared at the estimated rates for individual items only and the percentage excess or less shall be added or subtract from the gross amount of the bill.
- 25 The tenderer shall carefully study the tentative drawings and specifications applicable to the contract and all the documents which will form a part of the agreement to be entered in to by the accepted tenderer and detailed specifications for Odisha and other relevant specifications and drawings which are for sale. Complaint at a future date that plans and specifications have not been seen by the tenderers can not be entertained. The drawing furnished with the tender are tentative and subject to revision or modification as tendered during the execution as per actual necessity and detail test conducted. But the tendered rates quoted by the tenderer will hold good in case of such modification of drawings during the time of execution and shall in no way invalidate the contract and no extra monetary compensation will be entertained. The work shall however be executed as per final approved drawing to be issued by the Engineer-in-Charge as and when required.
- 26 Every tenderer is expected before quoting his rates to inspect the site of the proposed work. He should also inspect the quarries and approach roads to quarries and satisfy himself about the quality and availability of materials. In every case the materials must comply with the relevant specifications. Complaints at future date that the availability of materials at quarries have been misjudged can not be entertained.
- 27 The offer of tender shall be inclusive of cost of construction and maintenance of island, ferry service, fair-weather road, service road, foot bridge, pylon base, winch stand and derrick stand etc. as required for the work.
- 28 It must be definitely understood that the Government does not accept any responsibility for the correctness and completeness of the trial borings shown in the Cross Section.
- 29 Amendment to para 3.5.5 (V) of OPWD Code Volume – I by inclusion Additional Performance Security(APS) shall be obtained from the Bidders when the Bid amount is less than estimated cost put to tender . In such an event, only the successful Bidder who has quoted less Bid price rates/rates than the estimated cost put to tender shall have to furnish the exact amount of differential cost i.e. estimated cost put to tender minus the quoted amount as Additional Performance Security (APS) in shape of term deposit receipt pledged in favour of Divisional Officer/ Bank Guarantee in favour of the Divisional Officer in any Nationalised / Scheduled bank in India counter guaranteed by its local branch at Bhubaneswar within seven days of issue of letter of acceptance (LOA) by the Divisional Officer (by E-mail) to the successful Bidder otherwise the Bid of the Successful Bidder shall be cancelled and the earnest money deposit / Bid security shall be forfeited .further proceeding for blacklisting shall be initiated against the Bidder as per Works Department Office Memorandum No 14459/ dated 20.09.2018
- 30 The tender containing extraneous conditions not covered by the tender notice are liable for rejection and quotations should be strictly in accordance with the tender call notice. Any change in the wording will not be accepted.
- 31 in case of any discrepancy in printing or omission of statutory specifications or any other part of portion of the approved documents during download of the bid document during download of the bid document the decision of the officer inviting the bid will be binding on the bidder .
- 32 Schedule of quantities accompanied in shall be definitely understood that the Government does not accept any responsibility for the correctness or completeness of this schedule and that this schedule is liable for alternation or omissions, deductions or alternations set forth in the conditions of the contract and such omissions, deductions, additions or alternations shall no way invalidate the contract and no extra monetary compensation, will be entertained.
- 33 The authority reserves the right to reject any or all the tenders received without assigning any reasons there-of what-so-ever.
- 34 The earnest money will be retained and dealt with as per the terms and conditions of the O. P. W. D. code.
- 35 The bidder / tenderer whose bid has been accepted will be notified of the award by the Block Development Officer prior to expiration of the validity period by facsimile confirmed or by registered letter. This letter (hereinafter and in the conditions of Contract called the “Letter of Acceptance”) will state the sum that the Block Development Officer ,Bonaigarh will pay the contractor in consideration of the execution, completion and maintenance of the Works by the contractor as prescribed by the contract (Hereinafter and inthe contract called the “Contract Price”).

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The notification of award will constitute the formation of the contract, subject only to the furnishing of a performance security (Initial Security Deposit) in form of Deposit receipt of Schedule Bank/Kissan Vikash Patra/Post Office Savings Bank Account/National Savings Certificate/Postal Office Time Deposit Account duly pledged in favour of the Block Development Officer ,Bonaigarh and in no other form which including the amount already deposited as bid security (earnest money) shall be 2% of the value

of the tendered amount (excluding 1% deposited towards hiring of equipments/machineries from out side the State if any) and sign the agreement in the P.W.D. form No. **P1** (Schedule XLV No. 61) for the fulfillment of the contract in the office of the Block Development Officer ,Bonaigarh as directed. The security deposit together with the earnest money and the amount withheld according to the provision of **P1** agreement shall be retained as security for the due fulfillment of this contract and additional performance security in accordance with the provisions of the agreement.

The agreement will incorporate all agreements between the officer inviting the bid/Engineer-in-Charge and the successful bidder. Within 15 days following the notification of award along with the Letter of Acceptance, the successful bidder will sign the agreement and deliver it to the Block Development Officer, Bonaigarh . Following documents shall form part of the agreement.

a) The notice inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming the bid as issued at the time of invitation of bid and acceptance thereof together with any correspondence leading thereto & required amount of performance security including additional performance security.

b) Standard P.W.D. Form **P1** with latest amendments.

Failure to enter in to the required agreement and to make the security deposit as above shall entail forfeiture of the **Bid Security (earnest money)** .No **contract (tender)** shall be finally accepted until the required amount of initial security money is deposited. The security will be refunded after One year of completion of the work and payment of the final bill and will not carry any interest.

As concurred by Law Department & Finance Department In their U.O.R. No 848 dtd.21.05.97 J.O.R.No.202 W.F.D. dtd.06.03.98 respectively the E.M.D. will be forfeited in case, where tenderers back out from the offer before acceptance of tender by the competent authority.

36 That for the purpose of jurisdiction in the event of disputes if any of the contract would be deemed to have been entered in to within the State of Odisha and it is agreed that neither party to the contract will be competent to bring a suit in regard to the matter by this contract at any place outside the State of Odisha.

The contractor should be liable to fully indemnify the department for payment of compensation under workman Compensation Act. VIII of 1923 on any account of the workmen employed by the contractor and full amount of compensation paid will be recovered from the contractor.

Tenderers are required to abide by the fair wages clause as introduced by Govt. of Odisha, Works Department Letter No.-VIII-R 8/5225 Dtd. 26.02.55 and No.IIM- 56/628842(5) Dtd.27.09.61 as amended from time to time.

37 In case of any complaint by the labour working about the non payment or less payment of his wages as per latest minimum Wages Act, the Block Development Officer ,Bonaigarh will have the right to investigate and if the contractor is found to be in default, he may recover such amount due from the contractor and pay such amount to the labour directly under intimation to the local labour office of the Govt. The contractor shall not employ child labour. The decision of the Block Development Officer ,Bonaigarh is final and binding on the contractor.

38 The contractor shall bear cost of various incidentals, sundries and contingencies necessitated by work in full within the following or similar category.

a. Rent, royalties and other charges of materials, octroi duty, all other taxes including sales tax, ferry, tolls conveyance charge and other cost on account of land and building including temporary building and temporary electric connection to work site as well as construction of service road and diversion road and its maintenance till completion of work as required by the tenderer for Collection of materials, storage, housing of staff or other purpose of the work. No tenderer will however be liable to pay Govt. for temporary occupation of land owned by Govt. at the site of the work.

b. Labour camps or huts necessary to a suitable scale including conservancy and sanitary arrangements therein to the satisfaction of the local health authorities.

c. Suitable water supply including pipe water supply wherever available for the staff and labour as well as for the work.

d. Fees and duties levied by the municipal, canal or water supply authorities.

e. Suitable equipments and wearing apparatus for the labour engaged in risky operations.

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- f. Suitable fencing barriers, signals including paraffin and electric signal where necessary at works and approaches in order to protect the public and employees from accidents.
- g. Compensation including the cost of any suit for injury to persons or property due to neglect of any major precaution also become payable due to operation of the workmen compensation act.
- h. The contractor has to arrange adequate lighting arrangement for the work where ever necessary at his own cost. After the work is finalised, all surplus materials should be removed from the site of work. Preliminary work such as vats, mixing platforms etc. should be dismantled and all materials removed from the site and premises left neat and clean, this should be inclusive of the rates.
- 39 No payment will be made for bench marks, level pillars profiles and benching and leveling the ground where required. The rates to be quoted should be for the finished items of work inclusive of carriage of all materials and incidental item of works.
- 40 It should be understood clearly that no claim what-so-ever will be entertained to extra items of works quantity of any item besides estimate amount unless written order is obtained from the Engineer-in-charge and rate settled before the extra items of work or extra quantity of any items of work is taken up.
- 41 The tenderer shall have to abide by the C.P.W.D. safety code rules introduced by the Government of India, Ministry of work Housing and Supply in their standing order No-44150 dtd.25.11.57.
- 42 Bid documents consisting of plans, specifications, the schedule of quantities and the set of terms and conditions of contract and other necessary documents can be seen in all the offices issuing the documents and office of the under signed during office hours everyday except on Sundays and Public Holidays till last date of sale and receipt of tender papers. Interested bidders may obtain further information at the same address. But it must be clearly understood that the tenders must be received in order and according to the instructions.
- 43 Tenderers are required to go through each clause of P.W.D. Form **P1** carefully in addition to the clause mentioned herein before tendering.
- 44 All reinforced cement concrete work should conform to Odisha Detailed Standard specifications, IRC Code and Bridge code section I, II, III, IV and VII & latest design criteria for prestressed concrete bridges specifically for road and bridges issued by MORT & H, Govt. of India.
- 45 Steel shuttering & centering shall be used which shall be lined with suitable sheeting and made leak proof and water tight.
- 46 The Department will have the right to inspect the scaffolding, centering and shuttering made for the work and can reject partly or fully such structures if found defective in their opinion.
- 47 Concrete should be machine mixed unless otherwise ordered in writing by the Block Development Officer ,Bonaigarh. The contractor should arrange his own concrete mixer, vibrator, pumps etc, for this purpose at his own cost.
- 48 Cement shall be used by bags and weight of one bag of cement being taken as fifty (50) Kg.
- 49 The contractor should arrange the materials like Steel, Cement, paint and bitumen etc. of approved quality and specification at his own cost for completion of the work with the time schedule. No extension of time will be granted on the application of the contractor due to delay in procurement of materials.
- 50 The contractor will be responsible for the loss or damage of any departmental materials during transit and in the execution of the work due to reasons what – so-ever and the cost of such materials will be recovered from the bills at stock issue rates or market rates whichever is higher.
- 51 If the contractor removes Government materials supplied to him from the site of work with a view to dispose of the same dishonestly, he shall be in addition to any other liability civil or criminal arising out of his contract be liable to pay a penalty equivalent to five times of the price of the materials according to the stock issue rate or market rate whichever is higher. The penalty so imposed shall be recovered at any time from any sum that may then or at any time thereafter become due to the contractor or from his security deposit or from the proceeds of sale thereof.
- 52 The selected contractor may take delivery of departmental supply according to his need for the work issued by the Block Development Officer ,Bonaigarh subject to the availability of the materials. The tenderer shall make all arrangement for proper storages of materials but no cost for raising shed for storage, pay of watchman etc. will be borne by the Department. The Department is not responsible for considering the theft of materials at site. It is the contractor's risk. Under any such plea if the tenderer stops the work, he shall have to pay the full penalty as per clause of F2 agreement.
- 53 The Department will have the right to supply at any time in the interest of work any departmental materials to be used in the work and the contractor shall use such materials without any controversy or dispute on that account. The rate of issue of such materials will be at the stock issue rates inclusive of storage charges or rates fixed by the Department or current market rate whichever is higher.

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- 54 All the materials which are to be supplied from Block store will be as per availability of stock and the contractor will have to bear the charges of straightening, cutting, jointing, welding etc. to required sizes in case of M. S. Rods or Tor steel/M.S Angles, Tees and Joists etc. After the issue from the Block store the materials may be under the custody of the contractor and the contractor will be responsible for its safety and storage. Cut pieces of steel more than one meter in length will be returned by the contractor at the issuing stores without conveyance charges.
- 55 Though Departmental issue of cement and steel has indicated, it may not be taken as binding. The contractor must have to arrange by themselves cement, steel, bitumen and every sorts of materials from approved manufacturer, get it tested in the Departmental Laboratory and approved by the Department before use. No extension of time or escalation of price on such account shall be entertained in future.
TOR rods, plates and structural members will be supplied in quantity, length and size available in the stock.
- 56 For payment of reinforcement, the steel including plates etc. shall be measured in length of different diameter, size and specification as actually used (including hooks and cranks) in the work correct to an inch or cm. And their weight calculated as per sectional weight prescribed by the Indian Standard Specification or as directed by the Block Development Officer, Bonaigarh (Wastage of bars and unnecessary lapping will not be considered for measurement and payment).
- 57 The tentative alignment of the proposed Culvert & Guard wall has been shown in the enclosed drawing. However, the department has got the rights to shift the actual bridge position within a reasonable range in both U/s and D/S.
- 58 The contractor should at his own cost arrange necessary tools and plants required for the efficient execution of work and the rates quoted should be inclusive of the running charges of each plant and cost of conveyance.
- 59 After completion of the work the contractor shall arrange at his own cost all requisite equipments for testing one unplugged well and specified span free of cost as directed by the Block Development Officer ,Bonaigarh and bear the entire cost of the test.
- 60 Measurement of earth work in road embankment will be done by section measurement after the earth is consolidated including rolling with hand or power road roller and sheep foot roller at optimum moisture condition and no extra payment will be made for the jungle clearance for taking earth from the borrow areas. Earth work from cutting will be economically utilised in filling.
- 61 The stack of road metal and gravel will be measured in boxes of 1.5m × 1.5 M × 0.5M which will be taken as 1.5m × 1.5M × 0.44M = 1 Cum. The soling stones will be measured in the suitable stacks with deduction for voids @ 1/6 of volume or more depending upon the looseness of stacking which would be determined on actual observation and deduction.
- 62 The machineries, if available, with the department may be supplied on hire as per charges noted in the enclosed statement subject to the condition that the contractor will execute in advance an agreement with the Block Development Officer ,Bonaigarh.
- 63 In the event of any delay in the supply of Department road roller for unavoidable reasons, no extension of time will be granted to the contractor under any circumstances.
- 64 The tenderer should furnished along with their tender a list of works which are at present in their hand in the prescribed proforma enclosed herewith.
- 65 Sinking of wells shall be measured from bottom of well cap up to bottom of cutting edge or 15 cm. above low water level whichever is less.
- 66 All method of sinking including pneumatic sinking by employment of drivers and other equipment shall be included in the rate.
- 67 Removal of trees, logs of trees or isolated boulders and desilting of sand or earth from existing well, rectification of tilt and shift if any, etc. shall also be included within the rate of sinking.
- 68 The depth of foundation indicated on the drawing are provisional but these may be altered if necessary in the light of the nature of strata indicated by boring which must be taken in advance of actual execution of the foundation.
- 69 When resort has to be made for sinking the wells by air lock and vacuum chamber method rates there of shall be pre-decided by authority accepting the tender.
- 70 Construction of coffer dam or island or the work of open excavation or dressing or labour for laying well curbs shall be included in the rate of well sinking.
- 71 For concreting the bottom plugs of well under the method of providing concrete should be either with tremie or any other approved method as well be directed by the Block Development Officer ,Bonaigarh with 10% extra cement to be used for under water concreting without any extra cost to the department.
- 72 No claim will be entertained in respect of difficulties during sand blowing met with during sinking of wells.

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- 73 No part of the bearing for the superstructure shall be allowed to rest on the noses of the piers.
- 74 Tor Steel mesh reinforcement shall be provided in the concrete of the girders on the caps of the piers / abutments immediately in contact with the bearing to ensure proper distributions of heavy load
75. Lugs and grooves shall be provided in the bearings to prevent them from skewing and getting out of alignment.
76. Inspection by the Director General of Supplies and Disposals of the bearing during manufacture and X-Ray or Gama Ray examination of castings thickness more than 8 inches and load testing of bearing if considered necessary shall have to be carried out at the contractor's cost .The same procedure for testing may have to be followed for ribbed bearing manufactured by widening.
77. i) It should be clearly understood that the joints of the bars are to be provided with lapping, welds or bolts nutsas well be directed by the Block Development Officer ,Bonaigarh.
- ii) Concrete test specimens 150mm × 150mm × 150mm in size (whether plain or reinforced concrete) for the testing shall be taken for each structural member by a representative of the contractor in the presence of responsible officer of the rank not lower than that of an Assistant Engineer or sub-Divisional Officer. The contractor shall bear the cost so involved in testing. The test specimen in cube should be carried out in the Departmental Control and Research Laboratory of Cuttack or Bhubaneswar. Test should be carried out in accordance with the stipulation in Bridges code section-III.
78. Test specimens shall be formed carefully in accordance with the standard method of taking test specimen and no plea shall be entertained later on the grounds that the casting of the test specimen was faulty and that the result of the specimen did not give a correct indication of the actual quality of concrete.
79. Plain concrete and reinforced concrete specimens will be tested in Government Test Houses at Alipore or control and Research Laboratory at Bhubaneswar. Cost of testing of all specimens and samples will be borne by the Contractor.
- i) The construction of well staining by injecting cement or grout in coarse aggregate placed in position shall not be permitted.
- 80 The thickness of cement concrete in top plugging should be as per Departmental drawing.
81. In well sinking, the maximum tolerance permissible in tilt is 1:80 and the shift is 150mm to the normal direction. Where it is not feasible to work these tolerance the contractor shall carry out. suitable remedial measures as may be directed by the Engineer-in-charge to overcome the adverse effects of tilts and shifts without any extra cost to the Department and without any damages to the well. Any additional work necessary consequent upon the excess tilt and shift shall be carried out by the contractor at no extra cost to the Department.
82. Concrete of strength below of the required strength (as determined by actual tests) shall not be accepted.
- 83 If the well is beyond rectification the well shall be rejected, the well has to be abandoned and another well to be sunk at a suitable location at the cost of the Contractor. The tilt and shift of the well including compensation is to be abided as per the clauses of MORT&H for Roads and Bridges.
- 84 No claim for carriage of water what-so-ever will be entertained.
- 85 The contractor shall employ one or more Engineering Graduate or Diploma holders as apprentice at his cost if the work as shown in the tender exceeds Rs.2,50,000/-.The apprentices will be selected by the Block Development Officer ,Bonaigarh. The period of employment will commence within one month after the date of work order and would last till the date, when 90% of the work is completed. The fair wage to be paid to the apprentices should not be less than the emolument of personnel of equivalent qualification employed under Government. The number of apprentices to be employed should be fixed by the Block Development Officer ,Bonaigarh in the manner so that the total expenditure does not exceed one percent of the tendered cost of the work.
- 86 Super class contractor shall employ under himself two graduate Engineer and Two Diploma holders belonging to the state of Odisha . Special class contractor shall employ under himself one graduate Engineer and Two Diploma holders belonging to the state of Odisha. Like wise "A" class contractor shall employ under himself one graduate Engineer and Two Diploma holders belonging to the state of Odisha. The Contractor shall pay to the Engineering Personnel monthly emoluments which shall not be less than the emoluments of the personnel of equivalent qualification employed under the state Govt of odisha .The Engineer – In- Chief (Civil) . Orissa may however assist the contractor with names of such unemployed Graduate Engineer and Diploma holders if such help is sought for by the contractor . The names of such Engineering personnel appointed by the contractors should be intimated to the tender Receiving Authority along with the tender as to who would be supervising the work . Each bill of super class , special class or "A" class contractor shall be accompanied by an employment Roll of the Engineering personnel together with a certificate of the graduate Engineer of Diploma

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holder so employed by the contractor to the effect that the work executed as per bill has been supervised by him, (Vide Works Department No Codes M-22/91-15384 dated 9.7.91) . The required certificate to be furnished in the proforma contained in a separate sheet vide Schedule - B

- 87 . It is the responsibility of the contractor to procure and store explosive required for blasting operation. Department may render necessary possible help for procuring license.
88. Odisha Bridge & Construction Corporation Ltd. will be allowed price preference up to 3% over the lowest quotation or tender as laid down in works and Transport Department Resolution No-285 date-17.04.1974. The Odisha Construction Corporation will be allowed a price preference to the extent of up to 3% over the lowest tender amount (Where their tender is not the lowest) provided they express willingness to execute the work after reduction of rates by negotiation.
89. Amendment of existing Clauses :- By admission of a tender for the work, a tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the work, about the quality and availability of the required quantity of material including the wheat/ rice referred to above, medical aid, labour and food stuff etc., and that rates quoted by him in the tender will be adequate to complete the work according to the specifications attached there to and that he had taken in to account all conditions and difficulties that may be encountered during its progress and to have quoted rates including labour and materials with taxes, octroi, other duties, lead, lifts, loading and unloading, freight for all materials and all other charges necessary for the completion of the work, to the entire satisfaction of the Block Development Officer ,Bonaigarh of the work and his authorised subordinates. After acceptance of the contract rate Government will not pay any extra charges for any reason in case the contractor claims later on to have misjudged as regard availability of materials, labour and other factors.
- 90 Building and other construction welfare Cess for construction workers shall be deducted @ 1 % of the Gross amount of the bills from the contractor as per Resolution of Govt. Of Odisha, Labour & Employment Department.
- 91 The prevailing percentage of I. T. Department of the gross amount of the bill towards income tax will be deducted from the contractor's bill
- 92 Prevailing rate of VAT on the gross amount of the bill will be deducted from the contractor's bill, where Agreement Value is 0.50 lakh and above.
- 93 The contractor is required to pay royalty to Govt. as fixed from time of time and produce such documents in support of their payment to the concerned Block Development Officer, Bonaigarh with their bills, falling which the amount towards royalties of different materials as utilised by them in the work will be recovered from their bills and deposited in the revenue of concerned department.
- 94 Under no circumstances interest is chargeable for the dues or additional dues if any payable for the work.
- 95 Under section 12 of contractors labour (Regulation and Abolition) Act. 1970 the contractor who undertakes execution of work through labour should produce valid license from licensing authorities of labour Department.
- 96 **Sample of all material** - The contractor shall supply sample of all materials fully before procurement for the work for testing and acceptance as may be requiring by the concerned Block Development Officer, Bonaigarh.
- 97 **Trial Boring** - The foundation level as indicated in the body of the departmental drawing is `purely tentative and for the general guidance only. The Department has no responsibility for the suitability of actual strata at the foundation level. The contractor has to conduct his own boring before starting the work and get the samples tested at his own cost to ascertain the S.B.C. and credibility of the strata at founding level while quoting his rates for tender the contractor shall take in to account of the above aspects.
- (I) Any defects, shrinkage or other faults which may be noticed within 6 (Six) months from the completion of the work arising out of defective or improper materials or workmanship timing are upon the direction of the Block Development Officer ,Bonaigarh to be amended and made good by the contractor at his own cost unless the Engineer for reasons to be recorded in writing shall be decided that they ought to be paid for and in case of default Department may recover from the contractor the cost of making good the works. The contractor is also required to maintain the road for 6 (Six) months from the date of successful completion of the work.
- (ii) From the commencement of the works to the completion of the same, they are to be under the contractors charge. The contractor is to be held responsible to make good all injuries, damages and repairs occasioned or rendered necessary to the same by fire or other causes and they hold the Govt. of Odisha harmless for any claims for injuries to person or structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the contractor or any one in his employment during the execution of the work. Also

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no claim shall be entertained for loss due to earthquake, flood, cyclone, epidemic, riot or any other calamity whether natural or incidental damages so caused will have to be made good by the contractor at his own cost.

98 **Gradation of ingredients:** The coarse and fine aggregate shall meet the grade requirement as per the latest provision of relevant I.S. Code / I. R. C. code / MORT&H specifications.

99 Tilts and shifts

i) Maximum permissible shift is 150mm.

ii) Maximum permissible tilt is 1 : 80.

100. **Escalation:-** Payment for variation in price-(Vide Works Department Memorandum No-12606/W dt.24.12.2012.

Contract price shall be adjusted for increase or decrease in rates and price of Labour, Cement, Steel, Bitumen, Pipes, POL & other material component in accordance with the following principles and procedures as per formula given below :-

101

a) (i) **REIMBURSEMENT/RECOVERUY DUE TO VARIATION IN PRICES OF MATERIALS OTHER THAN (STEEL, CEMENT, BITUMEN, PIPES & P.O.L.)**

If during the progress of the work the price of any materials (Excluding the cost of steel, cement, Bitumen & P.O.L.) incorporated in the work (not being materials supplied from the Block Development Officer ,Bonaigarh store) in accordance with clause there of increases or decreases as a result of increase or decrease in the Average wholesale price Index (all commodities), and the contractor there upon necessarily and properly pays in respect of that materials incorporated in the work such increased or decreased price, then he shall be entitled to reimbursement or liable to refund, quarterly as the case may be, such an amount, as shall be equivalent to the plus or minus difference of 85% in between the Average Wholesale price Index (all commodities) which is operating for the quarter under consideration and that operated for the quarter in which the bid was received (last date of receipt) as per the formula indicated below provided that the work has been carried out within the stipulated time or extension thereof as are not attributable to him. If above materials on the value of works executed during the extended period.

This clause will be applicable to the contracts where original stipulated period of completion is more than 18 months. In the situation where the period of completion is initially stipulated in the agreement as less than 18 (eighteen) months but subsequently the completion period has been validly extended on the ground that the delay in completion is not attributable to the contractor and in the result the total period including that extended period stands more that 18 (eighteen) months or more, price escalation for other materials is admissible only for the remaining period excluding 18 9eighteen) months there from.

Formula to calculate the increase or decrease in the price of materials :

Price adjustment for increase or decrease in cost of materials other than cement, steel, bitumen, pipes and POL procured by the contractor shall be paid in accordance with the following formula :

$$V_m = 0.85 \times P_m / 100 \times R \times (M_1 - M_0) / M_0$$

V_m = Increase or decrease in the cost of work during the quarter under consideration due to changes in rates of materials other than cement, steel, bitumen, pipes and POL.

R = Value of work done during the quarter under consideration excluding the work executed under extra items if any at prevailing schedule of rate/derived rates.

M_0 = The all India wholesale price index (all commodities) prevailed during the quarter of last date of receipt of bids (as published by the Economic Adviser to Govt. Of India, Ministry of Industry and commerce, New Delhi).

M_i = The all India wholesale price index (all commodities) for the quarter under consideration as published by Economic Adviser, Govt. of India, Ministry of Industry and commerce, New Delhi. In respect of the justified period extended for completion of the work, the index prevailing at the time of stipulated date of completion or the prevailing index of the period under consideration, whichever is less, shall be considered.

P_m = Percentage of material component (other than cement, steel, bitumen, pipes and POL) of the work, as indicated in clause-94 (d) below.

a) (ii) **REIMBURSEMENT/RECOVERY OF DIFFERENTIAL COST DUE TO VARIATION IN PRICES OF PRINCIPAL MATERIALS (STEEL, CEMENT, BITUMEN AND PIPES NOT ISSUED BY DEPARTMENT) AFTER SUBMISSION OF TENDER :**

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If after submission of the tender, the prices of Steel, Cement, Bitumen and Pipes (not being supplied by the Department) increases/decreases beyond the price (s) prevailing at the time of the last date for submission of tenders including extension for the work, the contractor shall be eligible to get differential cost due to such hike on the value of works executed during the stipulated period and during the extended period when the reason of delay in completion of the work is not be eligible to get price variation on the above materials on the value of works executed during the extended period.

Reimbursement in case of differential cost due to increase in prices of cement, steel, bitumen and pipes are to be made by the Executive Engineer with prior approval of tender accepting authority subject to following conditions :

- 1) Contractors have to submit the vouchers showing procurement of different materials from authorized dealers for the said work.
- 2) Differential cost will be allowed only for the works which are progressed as per the approved work programme/ revised work programme duly approved by the Engineer-in-charge.

Recovery in case of decrease in prices of cement, steel, bitumen & pipes shall be made by concerned Executive Engineer from the Contractor immediately.

The increase/decrease in prices of cement, steel, bitumen and pipes for reimbursement/recovery shall be determined as follow.

(a) Adjustment towards differential cost of Cement

$V_c = (C_i - C_o) / C_o \times \text{Actual quantity of cement utilized in the work during the quarter under consideration} \times \text{base price of cement as prevailing on the last stipulated date of receipt of tender including extension, if any.}$

V_c = Differential cost of cement i.e. amount of increase or decrease in rupees to be paid or recovered.

C_i = All India Wholesale price index for cement for the quarter under consideration as published by Economic Adviser, Govt. of India, Ministry of Industry and commerce, New Delhi.

C_o = All India Wholesale price index (as published by Economic Adviser, Govt. of India, Ministry of Industry and commerce, New Delhi) for cement as prevailing on the last stipulated date of receipt of tender.

a) Adjustment towards differential cost of Steel

$V_s = (S_i - S_o) \times \text{Actual quantity of steel utilized in the work during the quarter under consideration.}$

V_s = Differential cost of Steel i.e. amount of increase or decrease in rupees to be paid or recovered.

S_i = cost of the Steel as prevailed during the period under consideration as fixed by Steel Authority of India.

S_o = Base price of Steel prevailing as on the last date of submission of tender including extension, if any.

b) Adjustment towards differential cost of Bitumen.

$V_b = (B_i - B_o) \times \text{Actual quantity of Bitumen utilized in the work during the quarter under consideration.}$

V_b = Different cost of Bitumen i.e. amount of increase or decrease in rupees to be paid or recovered.

B_i = Average cost of Bitumen prevailed during the period under consideration as fixed by IOCL/BPCL/HPCL.

B_o = Base price of bitumen as prevailing on the last stipulated date of receipt of tender including extension, if any.

c) Adjustment towards differential cost of Pipes.

$V_p = 0.85 \times P_p / 100 \times R \times (P_i - P_o) / P_o$

V_p = Differential cost of pipe i.e. amount of increase or decrease in rupees to be paid or recovered during the quarter under consideration.

P_p = Percentage of pipe component of the work as indicated in the clause 94 (d).

R = Value of work done during the quarter under consideration excluding the value of work executed under extra items, if any, at prevailing schedule of rates or derived rate.

P_i = All India Whole sale price index for the period under consideration as published by Economic Advisor, Govt. of India, Ministry of Industry and Commerce, New Delhi, for the type of pipe under consideration.

P_o = All India Whole sale price index (as published by Economic Advisor, Govt. of India, Ministry of Industry and Commerce, New Delhi) as on the last stipulated date of receipt of tender including extension, if any, for the type of pipe under consideration

101 (b) REIMBURSEMENT/REFUND DUE TO STATUTORY RISE IN COST OF MINIMUM WAGES BY GOVERNMENT:

If after submission of the tender, the wages of labour increases or decreases as a direct result of the coming into force of any fresh law, or statutory rule or order beyond the wages prevailing at the time of the last date of submission of tenders including extensions, the contractor shall be eligible to get escalation due to such hike on the value of works executed during the stipulated period and during the validly extended period when the delay in completion is not attributable to the Contractor. If penalty is levied for delayed completion of the

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work, the contractor shall not be eligible to get escalation on labour on the value of works executed during the extended period.

The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such wages of labour, give notice thereof to the Block Development Officer, Bonaigarh stating that the same is given pursuant to this condition together with all information relating thereto which he may be in a position to supply. Block Development Officer, Bonaigarh may call books of account and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of wages and actual payment thereof. For this purpose, the labour component of the work executed during period under consideration shall be the percentage (as specified in table below) of the value of work done during that period and the increase/decrease in labour shall be considered on the cost of minimum daily wages of any unskilled labourer, fixed by the Government of Odisha under Minimum wages act.

The compensation for escalation for labour shall be worked out as per the formula given below:

$$V1 = 0.85 \times P1 / 100 \times R \times (Li - Lo) / Lo.$$

V1 = increase or decrease in the cost of work during the quarter under consideration due to changes in rates of minimum wages.

R = Value of work done during the quarter under consideration excluding the work executed under extra items if any at prevailing schedule or rate/derived rates.

Lo = The minimum wages for labour as notified by State Government, as prevailing on the last stipulated date of receipt of tender including extension, if any.

Li = the minimum wages for labour as notified by State Government & as prevailed on the last date of the quarter previous to the one under consideration. In respect of the justified period extended, the minimum wage prevailing on the last date of quarter previous to the quarter pertaining to stipulated date of Completion or the minimum wage prevailing on the last date of the quarter previous to the one under consideration, whichever is less, shall be considered.

P1 = Percentage of labour component of the work, as indicated in the clause 94 (d).

101(c) REIMBURSEMENT/REFUND DUE TO VARIATION IN PRICES OF P.O.L.

Similarly, if during the progress of work the prices of Diesel Petrol, Oil and Lubricants increases or decreases as a result of the price fixed thereof by the Government of India and the Contractor thereupon necessarily and properly pays such increased or decreased price towards Diesel, Petro, Oil and Lubricants used in the execution of the work, then he shall be entitled to reimbursement or liable to refund, quarterly, as the case may be such an amount as shall be equivalent to the plus or minus difference of 85% in between the price of P.O.L., which is operating for the quarter under consideration and that operated for the quarter of last date of receipt of bids as per the formula indicated below provided that the work has been carried out within the stipulated time or extension thereof as are not attributable to him. If penalty is levied for delayed completion of the work, the contractor shall not be eligible to get price escalation on POL on the value of works executed during the extended period.

Formula to calculate the increase or decrease in the price of P.O.L.

$$Vf = 0.85 \times Pf / 100 \times R \times (Fi - Fo)$$

Vf = Increase or decrease in the cost of work during the quarter under consideration due to Changes in rates for P.O.L.

Pf = Percentage of P.O.L. component of the work, as indicated in clause-94 (d) below

R = Value of work done during the quarter under consideration excluding the work executed under extra items if any at prevailing schedule of rate/derived rates.

Fi = All India Whole sale price index for Fuel, Oil & Lubricant (High Speed Diesel) for the quarter under consideration as published by Economic Adviser, Govt. of India, Ministry of Industry And Commerce, New Delhi. In respect of the justified period extended, the rates prevailing at the time of stipulated date of completion or the prevailing rates of the period under consideration, whichever is less, shall be considered.

Fo = All India Whole sale price index for Fuel, Oil & Lubricant (High Speed Diesel) as prevailing on the last stipulated date of receipt of tender including extension, if any.

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101(d) The following percentages will govern the price adjustment for the entire contract for different types of works as applicable given in the following table :

Sl. No.	Category of Works		% Component (Cost wise)		
			Labour (P1)	POL (P1)	Steel + Cement + bitumen + Other materials
1	R & B Works (% of Component)	Road Works	5	5	90
		Bridge Works	25	5	70
		Building Works	25	-	75
2	Irrigation Works (% of Component)	Structural Work	20	5	75
		Earth, Canal & Embankment Work	25	10	65
3	PH work	Structural Work	25	5	70
		Pipeline Work	5	-	Pipe -70 % * Other materials -25%
		Sewer line	10	-	Pipe -70 % * Other materials -25%

Note:- Further break up may be worked out considering the consumption of Cement, Steel, Bitumen and pipe in the concerned works for the period under consideration.

101(e) APPLICATION OF ESCALATION CLAUSE:

- (i) The contractor shall for the purpose of availing reimbursement/refund of differential cost of steel, bitumen, cement, pipe, POL and wages, keep such books of account and other documents as are necessary to show that the amount of increase claimed or reduction available and shall allow inspection of the same by a duly authorized representative of government and further, shall at the request of the Block Development Officer ,Bonaigarh, furnish documents to be verified in such a manner as the Block Development Officer ,Bonaigarh may require any document and information kept. The contractor shall within a reasonable time of 15 days of his becoming aware of any alteration in the price of such material, wages of labour and/or price of P.O.L. give notice thereof to the Block Development Officer ,Bonaigarh stating that the same is given pursuant to this condition alongwith information relating there to which he may be in a position to supply.
 - (ii) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The first such payment shall be made at the end of three months after the month (excluding the month in which tender was accepted) and thereafter at three months interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.
102. For diversion road the contractor will have to make his own arrangement to make the same in private land if necessary for which agreement of such land by the side of C.D. works and the rental charges for such private land shall be borne by the contractor including the proper maintenance with lighting arrangements during the night time and signaling during day time and barricading etc. till the C.D. works are opened to the traffic. No extra rate will be paid to the contractor for the above rental charges etc. His rates in the tender for other items shall include this arrangement, rental charges for the land and maintenance, lighting and removal of such temporary road crust from the private land to bring the land to its original condition etc. complete.
- 103 The contractor has to arrange the land required for borrowing earth if necessary for the road work at his cost. No extra payment by the Department will be made on this account and no claim what-so-ever will be entertained on this ground. The rates quoted by the contractor should be inclusive of all such charges.
- 104 Where it will be found necessary by the Department, the Block Development Officer ,Bonaigarh of the work shall issue an order book to the contractor to be kept at the site of the work with pages serially numbered. Orders regarding the work whenever necessary are to be entered in this book by the Block

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Officer-in-Charge with their dated signatures and duly noted by the contractor or his authorised agents with their dated signature. Orders entered in this book and noted by the contractor's agent shall be considered to have been duly given to the contractor for following the instructions of the Department.

The order Book shall be the property of the Block and shall not be removed from the site of work without written permission of the Block Development Officer, Bonaigarh and to be submitted to the Block Development Officer, Bonaigarh every month.

105. The tenderer should conduct three bores at each pier and S.B.C. of soil at foundation level and abutments location and furnish the test results in conformity with I.R.C. code at his own cost before execution of the work and rates quoted by the contractor should be inclusive of such bores and S.B.C. tests etc. without any extra cost to the Department.

106 The details of foundation, sub-structure and floor protection for execution shall be done in accordance with the test results thus obtained.

107 The contractor shall have no claim what so ever for the extra quantity of work to be executed in view of above possible changes and payments is to be made as per clause 11 of the **PI** Contract

108 Over and above these conditions, the terms and conditions and rules and regulations and specifications as laid down in Odisha Detailed Standard Specification, Odisha P.W.D. Code, Bridge code and MORT&H specifications with latest revision / amendment are also binding on the part of the contractor.

109 No part of the contract shall be sublet without written permission of the concerned Block Development Officer, Bonaigarh or transfer be made by power of Attorney authorising others to receive payment on the contractor's behalf.

110 The contractor should attach the certificate in token of payment deposit with the registration authority as per recent circular of the Government relating to his registration.

111 Any damages caused by natural calamities should be done by the contractor at his own cost. The Department will not be any way responsible for the same and will not pay any cost towards the repair done by the contractor.

112 The rates quoted by the contractor shall cover the latest approved rates of labours, materials, P.O.L. and Royalties. Arrangement of borrow areas, land, approach road to the bridge site etc. are the responsibility of the contractor.

113The rate for each work of concrete items wherever dewatering is imperatively necessary the term dewatering shall mean the execution or operation of the items due to standing water as well as due to percolation of water. The quoted rates will be inclusive of this.

114The materials, borrow areas and hutments at site should be arranged by the contractor at his own cost. No future complaint on this account shall be entertained.

115The contractor shall make requisition of claim book from the date of commencement of the work from the Department and shall maintain in proper P.W.D. form with pages serially numbered in order to record items of works are not covered by his contract and claimable as extra. Claims shall be entered regularly in this book under the dated signature of the contractor or his duly authorised agents at the end of each month. A certificate should be furnished along with the claim to the effect that he has no other claim beyond this claim up-to-date. If in any month there are no claims to record, a certificate to that effect should be furnished by the contractor in the claim book. Each claim must be defined and should be given as far as possible regarding the quantities as well as the total amount claimed. The claim book must be submitted by the contractor regularly by 10th and 16th days of each month for orders of the Block Development Officer, Bonaigarh or competent authority. Claims not made in this manner or the claim book not maintained from the commencement of the work are liable to be summarily rejected. The claim book is the property of the Block and shall be surrendered by the contractor to the Block Development Officer, Bonaigarh after completion of the work or before recession of the contract by the Department which ever is earlier for record.

116 Number of tests as specified in I.R.C./ MORT&H / I.S.I specification required for the construction of roads /bridges / buildings or any other structural works will be conducted in any Govt. Test House / Departmental laboratories/reputed material testing laboratory as to be decided by the Block Development Officer, Bonaigarh. Testing charges including expenditure for collection / transportation of samples /specimens etc. will be borne by the contractor. The collection of samples and testing are to be conducted for both prior to execution and during execution as may be directed by the Block Development Officer, Bonaigarh and on both the accounts the cost shall be borne by the contractor.

117 Besides, the firm / contractor shall install full fledged field laboratory at work site for conducting required tests as per IRC / MORT & H / ISI requirements at his own cost for providing sufficient opportunity for checking from time to time.

An Engineering personnel of the executing agency should be present at work site at the time of visit of high level inspecting officers in the rank of Chief Engineer and above. After completion of the road in all respects

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the road furnitures should be affixed by the executing agency indicating locations like school, hospital, No-horn etc.

118 Condition for issue of plant & machinery to contractor on hire :- Tools & plants will be issued to the contractor only if it is desirable in the interest of Govt. works and if these can be spared without inconvenience to the Department. The Sanction of the Block Development Officer ,Bonaigarh shall be necessary in each case. The contractor shall arrange his programme of work according to the availability of the plant & machinery & no claim will be entertained for any delay in supply by the Department.

An agreement shall be entered in to by the contractor to the effect that these hire charges are recoverable from the bills of the contractor regularly and the final payment for the work including refund of security deposit will not be made until the total amount due to the Government on account of hire of machinery etc. is recoverable in full. Full amount of hire charges due from the contractor at any contract at any time shall be recovered from his next subsequent bill.

All transit and incidental charges in connection with the despatch of tools and plants and machineries from workshop shed/ deposit return there to, will be borne by the contractor.

The hire charge shall be recovered at the prescribed rates from and inclusive of the date, the plant and machinery is made over up to and inclusive of the date of its return, even though the same day it may not have been utilised for any reason except for a major break down which may take more than 72 hours for repairs. The contractor shall immediately intimate in writing to the Block Development Officer ,Bonaigarh when any plant or machinery goes out of order requiring major repairs.

The hire charges are for clock hours. In case of tar boilers, hot mix plant and any other machinery requiring similar preparation the working hour will include the time required to make up the boiler temperature and bring plant to the operating conditions before the actual start of work.

The machine will work in shifts of 8 hours each. Extra charges towards overtime wages of any of the operating and maintenance staff will be leviable. These charges will be fixed by the Block Development Officer ,Bonaigarh from time of time. In no case the tools and plants shall be operated beyond 8 hours in any shift without prior written permission of the Block Development Officer ,Bonaigarh.

The contractor shall release the plant and machinery as and when required for periodical servicing and maintenance. He shall also provide for any labour and water source for washing the plants. In the case of Concrete mixtures, pavers and similar such type of equipments, the contractor shall arrange to get the hopper cleaned and the drums etc. washed at the close of work each day.

The plant and machinery once issued to a contractor shall not be returned by him on account of lack of arrangement of labour and material etc. on his part. The same will be returned only when they do not require or when in the option of Block Development Officer ,Bonaigarh the work or a portion of work for which issued is completed.

The tools and plants shall while in transit and in the custody of contractor be at his sole risk and responsibility for damages and / or loss except fair wear and tear. The damage or loss as assessed by Engineer-in-charge shall be made good by the contractor. In the event of a disagreement as to the extent of damage or the value of article lost, the decision of Block Development Officer ,Bonaigarh shall be final. The contractor shall on or before the supply of plant and machinery sign an agreement in indemnifying the Govt. against loss or damage to the machine. The Contractor shall also be responsible for any claim for compensation for loss of life, injury or damages to property etc. arising from any cause what-so-ever. The contractor shall provide full time choukidar for guarding the plant and machinery at site.

If the articles are not returned within the date originally specified or extended by the Engineer-in-charge, in addition to the normal hire charge, a surcharge equal to 10% of the hire charges will be levied for the period that the machinery is not returned. Such period will be treated as working time. In the event of the non-return of the machinery, the full value of the articles at the current market price will be recovered from the

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contractor's outstanding bills or any bills that may become due in respect of his other work under the state public works Department. The decision of the Block Development Officer ,Bonaigarh shall be final in case of dispute.

FORM OF AGREEMENT – The contractor shall, before taking the possession of the machinery, enter in to an agreement with the Block Development Officer ,Bonaigarh or his nominees in the form attached.

Log Books for recording the hours of daily works for each of the plant and machinery supplied to the contractor will be maintained by the Department will be attested by the contractor or his authorised agent daily. In case of contractor contests the correctness of the entries and / or fails to sign the log book, the decision of the Block Development Officer ,Bonaigarh shall be final and binding on him. Hire charges will be calculated according to the entries in the logbook and will be binding on the contractor.

AGREEMENT FOR LOANS OF GOVERNMENT TOOLS & PLANTS.

This agreement made the _____ Two Thousand _____
_____ between (here-in-after referred to as “the hirer” which expression shall unless excluded by or repugnant to the context include his heirs, executors, administrators and assigns) of the one part and the Govt. of Odisha (here in after referred to as the Governor which expression shall unless excluded by or repugnant to the context include his successors in office as assigns) of the other part.

Where as the hirer desirous of hiring the tools and plants of the P.R Department of the Odisha Govt. and more particularly specified in the schedule here under between here in after referred to as “the tools and plants”.

And where as Government has agreed to let in hire the tools and plants to the hirer on the terms and conditions here in after mentioned.

Now it is here by and between the parties here to as follows :-

- (a) In consideration of agreement that hire charges be recovered from their bill for work executed on which this machinery will be used or any other than standing in the names of contractors in the book of the Department or any other Government Department. The Govt. agrees to let the hirer tools and plants for the period to be computed from the date of delivery of the tools and plant to the hirer at the P.R. Department workshop at **Bonaigarh**.
- (b) The rate of higher charges will be as mentioned in the schedule attached.
- (c) The hirer shall not transfer, assign or sublet or in any way part with the tools and plants or any part there-of without the previous written approval of the Block Development Officer ,**Bonaigarh**
- (d) On the expiry of the period of the hire, the hirer shall return the tools and plants to the PR Department. & workshop / store at **Bonaigarh** in the same good condition in which they were received by him .
- (e) In the event of the tools and plants not being returned on the expiry of the above-mentioned period, the hirer shall without prejudice and any other liability pay to the Government on account equivalent to the rate of hire specified for the working period and an increase of ten percent.
- (f) The tools and plants shall be open for inspection at all times to the officers of the Government.
- (g) The hirer shall not operate the tools and plants so hired for more than one shift / two shifts of 8 hours each per day without the prior sanction of the Block Development Officer ,Bonaigarh. If the hirer operates the tools and plants beyond the aforesaid limit without the prior sanction of the Assistant Engineer, he shall pay to Government additional hire charges as well as over time charges for staff for such excess operation at the rate approved by the Block Development Officer ,Bonaigarh from time to time.
- (h) In case of breakdown, repairable at the site within a period of three days hire charges as specified in the schedule will be levied except in case of major repairs.
- (i) Normally the tools and plants will be supplied with operating staff.

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- (j) The hirer shall be responsible for any claims for compensation for loss of life, injury or damage to property etc. arising due to any causes what-so-ever during the period of the machinery is in his charge.
- (k) All municipal or other dues and taxes payable on account of the use or operation of the tools and plants for the period of hire shall be defrayed by the hirer.
- (l) The hirer shall make good any loss or damages arising out of causes other than fair wear and tear to the tools and plants during the period of hire. The cost recoverable from the hirer shall be the full replacement value as determined by the Block Development Officer ,Bonaigarh. In the event of any loss or damage not being made good by the hirer to the satisfaction of the said Engineer-in-charge the office shall be at liberty to make good himself such loss or damage and recover the cost thereof from the hirer. The hirer shall pay to the Block Development Officer ,Bonaigarh such an amount as shall be necessary to make good the loss or damage failing which the same will be recovered from his dues as in case of hire charges.
- (m) On the breach of any terms or conditions of this agreement by the hirer the Block Development Officer ,Bonaigarh shall be entitled to demand the return of tools and plants and the hirer shall return the tools and plants within 72 hours from the date of receipt of such order in writing .In case of failure on the part of the hirer to comply with such order he shall be liable to pay such penalty as may be imposed by the Engineer-in-charge for the period the tools and plant are detained provided that the maximum penalty shall not exceed the cost replacement of the tools and plants .
- (n) In case of any disputes between the hirer and the Government the decision of the Block Development Officer ,Bonaigarh shall be final.
- (o) This agreement shall be operated by the Block Development Officer ,Bonaigarh on behalf of the Government and the term Block Development Officer ,Bonaigarh shall include all officers duly authorised by him to exercise powers on his behalf.

THE SCHEDULE

Serial No.	Description and Name of the articles .	No.	Amount of hire per hour .	Remarks.

In witness where of the hirer and the Block Development Officer ,Bonaigarh has for and on behalf of the Governor of the State have set their respective hand, the day and the year here in above written.

Signed by :

1. 2.

Signed sealed and delivered in the presence of

2.

119. The agency will be responsible for traffic management and maintenance of the stretch of the road (for which the tender has been invited) at his own cost during the period of execution.
120. Even qualified criteria are met, the bidders can be disqualified for the following reasons, if enquired by the Department
- (a) Making a false statement or declaration.
 - (b) Past record of poor performance.
 - (c) Past record of abandoning the work half way/ recession of contract.
 - (d) Past record of in-ordinate delay in completion of the work.
 - (e) Past history of litigation.
- 121 The information furnished must be sufficient to show that the applicant is capable in all respects to successfully complete the envisaged work.
- 122 In case the 1st lowest tenderer or even the next lowest tenderers withdraw in series one by one, thereby facilitating a particular tender for award, then they shall be penalized with adequate disincentives with

Signature of Contractor

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forfeiture of EMD unless adequate justification for such back out is furnished. Appropriate action for black listing the tenderers shall also be taken apart from disincentivising the tenderer.

123 ADDENDUM TO THE CONDITION OF P1 CONTRACT

Clause-2(a) of P1 Contract:-TIME CONTROL:-

Progress of work and Re-scheduling programme.

The Block Development Officer ,Bonaigarh shall issue the letter of acceptance to the successful contractor. The issue of the letter of acceptance shall be treated as closure of the Bid process and commencement of the contract.

With in 15 days of issue of the letter of acceptance, the contractor shall submit to the Block Development Officer ,Bonaigarh for approval a Programme commensurate to **Clause no. 2.1.3** showing the general methods, arrangements, and timing for all the activities in the Works along with monthly cash flow forecast.

To ensure good progress during the execution of the work the contractors shall be bound in all cases in which the time allowed for any work exceeds one month to complete, 1/4th of the whole time allowed under the contract has elapsed, 1/2 of the whole of the work before 1/2 of the whole time allowed under the contract has elapsed, 3/4th of the whole of the work before 3/4th of the whole time allowed under the contract has elapsed.

If at any time it should appear to the Block Development Officer ,Bonaigarh that the actual process of the work does not conform to the programme to which consent has been given the Contractor shall produce, at the request of the Block Development Officer ,Bonaigarh, a revised programme showing the modifications to such programme necessary to ensure completion of the works within the time for completion. If the contractor does not submit an updated Programme within this period, the Block Development Officer ,Bonaigarh may withhold the amount of 1% of the contract value from the next payment certificate and continue to withhold this amount until the next payment after the date on which the over due Programme has been submitted.

An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.

The Block Development Officer ,Bonaigarh approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Block Development Officer ,Bonaigarh again at any time. A revised Programme is to show the effect of Variations and Compensation Events.

Extension of the Completion Date.

The time allowed for execution of the works as specified in the Contract data shall be the essence of the Contract. The execution of the works shall commence from the 15th day or such time period as mentioned in letter of Award after the date on which the Block Development Officer ,Bonaigarh issues written orders to commence the work or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee / Security deposit absolutely.

As soon as possible after the Agreement is executed the Contractor shall submit the Time & Progress Chart for each milestone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Block Development Officer ,Bonaigarh and the Contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per milestone given in contract data.

In case of delay occurred due to any of the reasons mentioned below, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Block Development Officer ,Bonaigarh to proceed with the works.

- i) Force majeure, or
- ii) Abnormally bad weather, or
- iii) Serious loss or damage by fire, or

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Bonaigarh**

- iv) Civil commotion, local commotion of workmen, strike or lockout affecting any of the trades employed on the work, or.
- v) Delay on the part of other contractors or tradesmen engaged by Block Development Officer ,Bonaigarh in executing work not forming part of the Contract.
- vi) In case a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost, or
- vii) Any other cause, which, in the absolute discretion of the authority mentioned, in Contract data is beyond the Contractors control.

Request for reschedule and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

In any such case a fair and reasonable extension of time for completion of work may be given. Such extension shall be communicated to the Contractor by the Block Development Officer ,Bonaigarh in writing, within 3 months of the date of receipt of such request. Non-application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Block Development Officer ,Bonaigarh and this shall be binding on the contractor.

Compensation for Delay.

If the contractor fails to maintain the required progress in terms of clause 2 or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the Block Development Officer ,Bonaigarh (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day / month (as applicable) that the progress remains below that specified in Clause 2 or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified. Compensation @ 1.5% per month of for delay of work, delay to be completed on per Day basis.

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work or to the Tendered Value of the item or group of items of work for which a separate period of completion is originally given.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Government. In case, the contractor does not achieve a particular milestone mentioned in contract data, or the rescheduled milestone(s) in terms of Clause 2.5, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of extension of time. Withholding of this amount on failure to achieve a milestone, shall be automatic

without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However no interest whatsoever shall be payable on such withheld amount.

Management Meetings.

Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meetings shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

Clause-2 (b) of Percentage Rate P1 Agreement:- Rescission of Contract (Amendment as per letter No.10639 dt 27.05.2005 of Works Department, Odisha):-To rescind the contract (of which rescission notice in writing to the contractor under the hand of the Block Development Officer ,Bonaigarh shall be

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conclusive evidence), 20% of the value of left over work will be realised from the contractor as penalty.

124 A contractor may be Blacklisted as per Amendment made to Appendix XXXIV to OPWD Code **Vol-II** on rules for black listing of Contractors vide Letter No – 03365 dt- 01-03-07 of Works Department , Odisha .

- a) Misbehavior / Threatening of Departmental & supervisory officers during execution of work / tendering process .
- b) Involvement in any sort of tender fixing .
- c) Constant non- achievement of milestones on insufficient and imaginary grounds and non- adherence to quality specifications despite being pointed out .
- d) Persistent and intentional violation of important conditions of contract .
- e) Security consideration of the State i.e. any action that jeopardizes the security of State .
- f) Submission of false / fabricated / forged documents for consideration of a tender .

125. Labour Cess

1% Labour cess will be deducted from the gross amount of the Contractor Bills .

126 ELIGIBILITY CRITERIA : To be eligible for qualification, applicants shall furnish the followings.

- a. Copy of Original Registration Certificate, Valid VAT clearance certificate, PAN card, Original Affidavit for the particular work of the Tender Notice along with the tender documents submitted to the Block Development Officer ,Bonaigarh during opening of the Bid for verification purpose, as per **Clause No.1.**
- b.Preferences will be given to contractors having experience in executing similar nature of work
- c Information regarding current litigation, debarring / expelling of the applicant or abandonment of work by the applicant in **schedule “E”** and **affidavit to that effect including authentication of tender documents and Bank guarantee in schedule “F”**.
- d. Submission of Original Bid Security and tender paper cost as prescribed in the relevant clause of DTCN i.e. before the stipulated date & time for opening the bid.
- e. Those Engineer Contractor are desirous of availing benefit as allowed to SC/ST Contractor are necessary to record the category to which they belong in the Registration Certificate (R.C.), otherwise their tender paper treated as normal tender .

Total:- 126 (One hundred twenty six) Clauses only.

Signature of Contractor

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SCHEDULE-A

CERTIFICATE OF NO RELATIONSHIP

I/We hereby certify that I/We* am/are* **related/not related**(*) to any officer of P.W.D of the rank of Assistant Engineer & above and any officer of the rank of Assistant / Under Secretary and above of the Works Department, Govt. of Odisha I/We* am/are* aware that, if the facts subsequently proved to be false, my/our* contract will be rescinded with forfeiture of E.M.D and security deposit and I/We* shall be liable to make good the loss or damage resulting from such cancellation.

I//We also note that, non-submission of this certificate will render my / our tender liable for rejection.

(*) - Strike out which is not applicable

Signature of the Tenderer

Date:-

Signature of Contractor

**Block Development Officer
Bonaigarh**

SCHEDULE-D1**WORKING EXPERIENCE**
D-1. LIST OF PROJECTS EXECUTED

Name of Employer	Name of location and name of work	Contract price in Indian Rupees	Items of works	Date of starting the work as per Agreement	Stipulated date of completion of the work as per Agreement	Actual date of completion of the work	Reasons for delay in starting/ completion, if any
1	2	3	4	5	6	7	8

Contractor

Date-

Block Development Officer

Bonaigarh

Signature of Contractor
Block Development Officer
Bonaigarh

SCHEDULE-D2

WORKING EXPERIENCE
D-2. LIST OF PROJECTS IN PROGRESS

Name of Employer	Name of location and name of work	Contract price in Indian Rupees	Items of works	Date of starting the work as per Agreement	Stipulated date of completion of the work as per Agreement	Revised target date of completion of the work, if any	Reasons for slow progress, if any, with the updated billing amount
1	2	3	4	5	6	7	8

Contractor

Date-

Block Development Officer

Bonaigarh

Signature of Contractor

Block Development Officer
Bonaigarh

Signature of Contractor

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Bonaigarh**

SCHEDULE-“E”

**INFORMATION REGARDING CURRENT LITIGATION, DEBARRING EXPELLING OF
TENDERED OR ABANDONMENT OF WORK BY THE TENDERER**

- | | | | |
|----|----|--|----------|
| 1. | a) | Is the tenderer currently involved in any litigation relating to the works. | Yes / No |
| | b) | If yes: give details: | |
| 2. | a) | Has the tenderer or any of its constituent partners been debarred/ expelled by any agency in India during the last 5 years. | Yes / No |
| 3. | a) | Has the tenderer or any of its constituent partners failed to perform on any contract work in India during the last 5 years. | Yes / No |
| | b) | If yes, give details: | |

Note:

If any information in this schedule is found to be incorrect or concealed, qualification application will be summarily be rejected.

Signature of the Contractor.

Signature of Contractor

**Block Development Officer
Bonaigarh**

SCHEDULE –“F”
AFFIDAVIT

1. The undersigned, do hereby certify that all the statements made in the required attachments for the Tender worksubmitted to the Block Development Officer ,Bonaigarh, are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s_____ nor any of its constituent partners have abandoned any road/ bridge/Irrigation /Buildings or other project work in India nor any contract awarded to us for such works have been rescinded during the last five years prior to the date of this bid.
3. The undersigned hereby authorised and request (s) any bank, person, firm or Corporation to furnish pertinent information as deemed necessary and as requested by the Department to verify this statement or regarding my (our) competency and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested and agree to furnish any such information at the request of the Department.

(Signed by an Authorised Officer of the firm / Bidder)
Date :

Block Development Officer
Bonaigarh

Total :- 25 (Twenty five) pages only + B.O.Q 34 (Thirty four) pages only

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Bonaigarh

Signature of Contractor

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Bonaigarh

TENDER SCHEDULE

Name of Work: Development of Education Infrastructure (Civil+Renovation+Electrical+PH) at Govt. U.G. High School, Bhalupani in Sundargarh District

Name of the Bidder :

Class of Contractor :

Sl. No.	Description of work	No.or Qty.	Unit	Estimate d Rate	AMOUNT Rs. P
1	Govt. U.G. High School, Bhalupani				
2	Earth Work in exavation of foundation in ordinary soil within initial leads of 50m & lifts of 1.5m including dressing and levelling of bed etc. and adding contractor's profit and over head charges, etc. complete in all respect	478.26	Cum	116.77	55846.42
3	Earth Work in exavation of foundation in hard soil within initial leads of 50m & lifts of 1.5m including dressing and levelling of bed etc. and adding contractor's profit and over head charges, etc. complete in all respect	77.72	Cum	184.60	14347.11
4	Filling in F & P with excavated materials including watering and ramming as directed by the Engineer-n-charge. For 100cum	450.50	Cum	103.00	46401.50
5	Filling in F & P with sand watered and rammed. Per 1 cum (Data for 100cum)	29.62	Cum	310.53	9197.90
6	Cement Concrete (1:4:8) using 4cm size hard granite C.B. metal approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete.	49.50	Cum	4039.01	199931.00

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7	Cement Concrete (1:3:6) using 12mm size hard granite H.B. chip approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete and as directed by E.I.C.	2.59	Cum	5077.24	13150.05
8	R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusherbroken) stone chips including hoisting and laying				
9	Foundation	37.24	Cum	5157.20	192054.13
10	Columns Base & Footings	7.18	Cum	5508.97	39554.40
11	R.C.C. Column / Beam				
12	Ground Floor	41.89	Cum	10769.10	451117.60
13	1st Floor Qty.	23.02	Cum	12004.20	276336.68
14	R.C.C Roof Slab				
15	Ground Floor	34.32	Cum	9224.20	316574.54
16	R.C.C Chajja				
17	Ground Floor	5.73	Cum	5006.50	28687.25
18	R.C.C Walls				
19	Ground Floor	0.55	Cum	5830.70	3206.89
20	2nd Floor Qty.	1.88	Cum	6073.30	11417.80
21	Rigid smooth centering shuttering for R.C.C.work including all cost etc complete				
22	(C)Chajja				
23	Ground Floor	37.15	Sqm	417.60	15513.84
24	1st Floor Qty.	37.66	Sqm	501.20	18875.19
25	Supplying, fitting and placing uncoated HYSD bar reinforcement complete as per drawing and technical specification. Per 1 MT. (Taking out put = 1MT)				
26	Ground Floor	123.42	Qtl.	7888.60	973611.01
27	1st Floor Qty.	30.66	Qtl.	7911.80	242575.79

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28	Brick work with Fly ash Bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ± 2 percent in cement mortar (1:6) in Foundation and Plinth including watering curing, cost of carriage and royalty of all materials, cost of all labour, etc complete.				
29	Foundation	64.67	Cum	3829.70	247666.70
30	Brick work with Fly ash Bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ± 2 percent in cement mortar (1:6) above plinth including watering curing, cost of carriage and royalty of all materials, cost of all labour, etc complete.				
31	Ground Floor	88.84	Cum	3863.00	343188.92
32	Brick work with Fly ash Bricks 23cm x 11cm x 8cm size having crushing strength not less than 75Kg/cm ² with dimensional tolerance ± 2 percent in cement mortar (1:4) above Plinth including watering curing, cost of carriage and royalty of all materials, cost of all labour, etc complete.				
33	Ground Floor Qty.	70.18	Cum	4050.30	284250.05
34	12mm thick C.P.(1:6) on brick masonry to the smooth surface including watering, curing, cost, carriage, royalty of all materials, cost of all labour, etc complete as per the direction of E.I.C.				
35	Ground Floor Qty.	1302.25	Sqm	132.30	172287.68
36	1st Floor Qty.	495.02	Sqm	135.50	67075.21

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37	16mm thick C.P. (1:6) over brick masonry to the smooth surface including watering, curing cost, carriage, royalty, and taxes of all materials, cost of all labour, etc complete as per the direction of E.I.C.				
38	Ground Floor Qty.	1025.78	Sqm	204.40	209669.43
39	1st Floor Qty.	176.49	Sqm	209.50	36974.66
40	6 mm thick C.P. (1:4) to RCC surfaces finished smooth including closed deep chiping and slury treatment , watering, curing cost, carriage & royalty of all materials, cost of all labour, etc complete as per the direction of E.I.C.				
41	Ground Floor Qty.	739.04	Sqm	148.90	110043.06
42	1st Floor Qty.	261.08	Sqm	152.60	39840.81
43	12mm thick cement plaster (1 : 4) over brick work with cement punning for skirting etc. all complete under instruction of EIC				
44	Ground Floor Qty.	27.51	Sqm	144.97	3988.12
45	1st Floor Qty.	3.35	Sqm	151.28	506.79
46	Supplying, fitting and fixing tile in floors of approved make conformaimg to IS:13755 laid on 20 mm thick cement mortar (1:4) and filling joints with white cement of approved quality including cost of all materials, etc. required for the work all complete as per direction of E.I.C.				
47	Anti Skid Ceramic Tiles (300x300) mm				
48	Ground Floor Qty.	59.59	Sqm	889.80	53023.18
49	1st Floor Qty.	7.57	Sqm	910.50	6892.49
50	Kota Tiles				
51	Ground Floor Qty.	258.54	Sqm	940.27	243097.41
52	1st Floor Qty.	81.76	Sqm	960.97	78568.91
53	Vitrified Tiles				
54	Ground Floor Qty.	105.14	Sqm	1196.10	125757.95

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55	Anti-Skid / Matte Finish Tile (600x600) mm				
56	Ground Floor Qty.	248.58	Sqm	1107.46	275292.41
57	1st Floor Qty.	148.21	Sqm	1128.16	167204.59
58	Fixing tiles in skirting and risers of steps on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.				
59	Vitrified Tiles				
60	Ground Floor Qty.	7.66	Sqm	1300.70	9963.36
61	Anti-Skid / Matte Finish Tile (600x600) mm				
62	Ground Floor Qty.	4.50	Sqm	1348.30	6067.35
63	Fixing tiles in dados on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.				
64	Ceramic Tiles				
65	Ground Floor Qty.	124.92	Sqm	1083.60	135363.31
66	Priming one coat with any approved primer including cost of primer & labour to give an even shade excluding cost of primer.				
67	Ground Floor Qty.	127.32	Sqm	55.80	7104.46
68	Painting two coats with approved enamel paints of approved colour, shade over a coat of primer including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour etc, complete as per specification & direction of Engineer-in-charge.				
69	Ground Floor Qty.	242.42	Sqm	133.00	32241.86
70	1st Floor Qty.	54.40	Sqm	141.78	7712.83

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71	Finishing wall surface with two coat of Cement based wall putty (water based) of approved make and finished smooth & even surface to receive painting including cost of scaffolding etc. with cost of all materials, labour etc. complete.				
72	Ground Floor Qty.	890.25	Sqm	77.20	68727.30
73	Priming 1 coat with wall primer water bond cement primer including all labour, materials etc. complete.				
74	Ground Floor Qty.	855.49	Sqm	54.00	46196.46
75	Wall painting 2 coats with plastic emulsion paint of approved shade on new work to give an even shade exculding cost of paint (For 10 Sqm.)				
76	Ground Floor Qty.	855.49	Sqm	101.10	86490.04
77	Wall painting two coat with any approved weather coat paint including cost of all materials, labour and T&P require for the work etc. complete as directed by the E.I.C.				
78	Ground Floor Qty.	1726.52	Sqm	73.60	127071.87
79	Providing and laying water proofs with polymeric bituminous membrane (Plastic felt) of 2.25Kg/Sqm and 1.5mm thickness consisting of layers having center core of 20 microns thermoplastic high molecular high density polyethylene H.M.H.D.P.E. film of grade 2504 including priming the surface with bituminous primer @ 0.3 Kg/Sqm providing a coat of hot blown bitumen of 1.32 kg / Sqm, applying and laying plastic felt membrane with 10 c.m overlap adhered to blown bitumen of 85/25 or 90/15 grade and covered with a layer of hot blown bitumen @ 1.2Kg/Sqm etc complete.				
80	Ground Floor Qty.	43.64	Sqm	221.72	9675.86

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81	Extra for pre finished nosing in treads of steps of Kota stone slab.	2.39	Rmt.	80.59	192.61
82	4 cm thick grading concrete (1:2:4) on roof slab with 12mm & down grade size black hard granite chips for old & New work.				
83	1st Floor Qty.	326.49	Sqm	1235.34	403326.16
84	Cement Concrete (1:2:4) using 12mm size hard granite C.B. chips approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete and as directed by E.I.C.				
85	Ground Floor Qty.	1.36	Sqm	5784.89	7867.45
86	<p>Providing and fixing TATA Pravesh Plain wooden finish Doors (Termite-Resistant, Weather proof, Environment friendly, Longevity, Strength) with shutter of approved size constructed from 0.8mm (22SWG) thick skin pass Galvanised Iron Sheet (Conform to IS 277), thickness of flush doors shall be 30mm and In-Fill Honeycomb Kraft Paper. Door frames conform to IS 4351: 2003 constructed from 1.2mm (18SWG) thick skin pass galvanised iron sheet (conform to IS 277) formed to single rebate profile of size 100mmx58mm. The door frames and door shutters are coated with Zinc Phosphate primer to recieve any paint on site or finished with thermosetting polyutethane paint of Aliphatic Grade including fixing of accessories of SS Ball bearing butt hinges of 102mm x 76mm x3mm-4No., Lever handle with lock HLIP 06SS-1 No., SS Tower Bolt 200mm long-1No. including T&P, material, hire charges and fixing at location etc. all complete under instruction of EIC.</p>				

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87	D(1200X2100)	9.00	Nos	23259.00	209331.00
88	D1(1000X2100)	2.00	Nos	23259.00	46518.00
89	D2(750X2100)	6.00	Nos	23259.00	139554.00
90	<p>Providing and fixing of TATA Pravesh (Oyster window) base variant double shutter window with grill & glass (Termite-Resistant, Weather proof, Environment friendly, Longevity, Strength), window frames and leaves of skin Pass Galvanised Iron sheet (as per IS513 "D" Quality, Galvanised as per IS 277 with Hot Zinc Coating of 120grams /Sq. Mtr & thickness of 0.6mm), Window shutter of 0.6mm (24SWG) thick skin pass Galvanised Iron sheet, Window Frames 8mm (22SWG) thick skin pass Galvanised Iron Sheet of Size 80mmx45mm, Mullion should be 8mm (22SWG) thick skin pass Galvanised Iron Sheet of size 80mmx60mm, Vision Glass 4mm clear float glass in rectangular shape. Height & width at least 8.8mm less than that of the shutter height & width, Finished of window with coated zinc phosphate primer or Thermosetting Polyurethane paint of Aliphatic Grade providing high levels of scratch resistance and durability. Window grill shall be made by 10mm Square MS bright bars. Windows accessories : SS Pin type Hinges -6No., Polypropylene handle -2No., Friction stay Powder coated-1No., MS Powder coated Tower Bolt -2 No. 150mm long, EPDM should be used all around glass in shutter for fixing of glass, Corner brackets-4 (made of Polypropylene each per shutter and frame). The frame and shutter section should be cut to length and miter joined with Corner bracket made of polypropylene. Mullion section should be joined with frame / Mullion using Nut & Bolt. Window frame should be fixed to brick / concrete masonry by using nylon self expanding sleeves and driving MS electroplated 6mmx95mm long Screws into the sleeves through frame including T&P, material, hire charges & labour etc. all complete under instruction of EIC.</p>				
91	W(1200X1300)	12.00	Nos	20998.32	251979.84
92	V(600X450)	2.00	Nos	12287.88	24575.76
93	For Existing Block				

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94	Dismantling and removing Cement Concrete and R.C.C. in all locations including stacking the useful materials for reuse and removing the debris within 50m lead as suggested by School Management Committee.	30.58	Cum	1142.92	34950.49
95	Dismantling and removing doors, windows and ventilators including removal of frame, hinges, fastening and stacking the same for reuse and removing the debris within 50m lead as suggested by School Management Committee.	17.96	Sqm	803.53	14431.40
96	Dismantling G.C.I. or A.C. sheet roofing after carefully removing the bolts and nuts including stacking of the materials for reuse and removing the debris within 50m lead.	45.54	Sqm	70.13	3193.72
97	Dismantling brick masonry in cement mortar 3m. Height including stacking the useful materials for reuse and removing the debris within 50m. Lead as suggested by School Management Committee.	28.70	Cum	1074.49	30837.86
98	Removing old lime or cement plaster from walls including raking out joints 12 mm deep and removing the debris within 50m lead etc. all complete	844.58	Sqm	38.47	32490.99
99	Fixing tiles in skirting and risers of steps on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.				
100	Anti-Skid / Matte Finish Tile (600x600) mm				
101	Ground Floor Qty.	9.85	Sqm	1348.30	13280.76
102	1st Floor Qty.	7.67	Sqm	1378.40	10572.33

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103	Fixing tiles in dados on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.				
104	Ceramic Tiles				
105	Ground Floor Qty.	62.96	Sqm	1083.60	68223.46
106	1st Floor Qty.	30.29	Sqm	1113.20	33718.83
107	Painting two coats with approved paint on old wood work with approved enamel paints of approved colour, shade over a coat of primer including sand papering, polishing the surface, cost, conveyances of all materials and cost of all labour etc, complete as per specification & direction of Engineer-in-charge.				
108	Ground Floor Qty.	55.11	Sqm	133.00	7329.63
109	1st Floor Qty.	27.20	Sqm	141.78	3856.42
110	Finishing wall surface with one coat of Cement based wall putty (water based) of approved make and finished smooth & even surface to receive painting including cost of scaffolding etc. with cost of all materials, labour etc. complete.				
111	Ground Floor Qty.	1185.80	Sqm	48.20	57155.56
112	1st Floor Qty.	756.10	Sqm	56.35	42606.24
113	Priming 1 coat with wall primer water bond cement primer including all labour, materials etc. complete.				
114	Ground Floor Qty.	1185.80	Sqm	54.00	64033.20
115	1st Floor Qty.	756.10	Sqm	55.40	41887.94
116	Wall painting 1 coat with plastic emulsion paint of approved shade on old work to give an even shade excluding cost of paint.				
117	Ground Floor Qty.	1185.80	Sqm	84.00	99607.20
118	1st Floor Qty.	756.10	Sqm	85.10	64344.11

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119	Wall painting two coat with any approved weather coat paint including cost of all materials, labour and T&P require for the work etc. complete as directed by the E.I.C.				
120	1st Floor Qty.	176.49	Sqm	74.70	13183.80
121	4 cm thick grading concrete (1:2:4) on roof slab with 12mm & down grade size black hard granite chips for old & New work.				
122	Ground Floor Qty.	167.48	Sqm	1247.70	208964.80
123	1st Floor Qty.	262.10	Sqm	1283.71	336460.39
124	Providing and fixing TATA Pravesh Plain wooden finish Doors (Termite-Resistant, Weather proof, Environment friendly, Longevity, Strength) with shutter of approved size constructed from 0.8mm (22SWG) thick skin pass Galvanised Iron Sheet (Conform to IS 277), thickness of flush doors shall be 30mm and In-Fill Honeycomb Kraft Paper. Door frames conform to IS 4351: 2003 constructed from 1.2mm (18SWG) thick skin pass galvanised iron sheet (conform to IS 277) formed to single rebate profile of size 100mmx58mm. The door frames and door shutters are coated with Zinc Phosphate primer to receive any paint on site or finished with thermosetting polyurethane paint of Aliphatic Grade including fixing of accessories of SS Ball bearing butt hinges of 102mm x 76mm x3mm-4No., Lever handle with lock HLIP 06SS-1 No., SS Tower Bolt 200mm long-1No. including T&P, material, hire charges and fixing at location etc. all complete under instruction of EIC.				
125	D1(1200X2100)	1.00	Nos	23259.00	23259.00
126	D3(1000X2100)	3.00	Nos	23259.00	69777.00

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127	For Boundary Wall				
128	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	119.70	Kg	92.40	11060.28
129	Cement Concrete (1:2:4) in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc. using 12mm size hard granite C.B. chips approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete and as directed by E.I.C.	2.78	cum	5849.27	16260.97
130	For Site Development				
131	Providing & laying of 80mm thick factory made cement concrete interlocking paver block of M35 grade and approved make variety colour and size made by Block making machin with strong vibratory compaction of approved design and shape, laid in required colour and pattern over 50mm thick compacted bed of coarse sand ,filling the joints with fine sand etc. all compelte including cost, conveyance, royalty, taxes of all materials,labour,T & P etc.Complete as per direction of EIC.				
132	Ground Floor Qty.	216.69	Sqm	783.98	169880.63

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133	Cement Concrete (1:2:4) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete. using 40mm, 20 mm & 10 mm size hard granite C.B. chips approved quality from approved quarry including cost, carriage, royalty, cost of all labour. etc complete and as directed by E.I.C.	4.52	Cum	5849.27	26438.70
134	Priming 1 coat with wall primer water bond cement primer including all labour, materials etc. complete.				
135	Ground Floor Qty.	18.74	Sqm	54.00	1011.96
136	Supplying of M.S. Door, Window with grills, Grills made out of M.S. Angle frame, M.S. Flat, Sheet etc of approved section & design, electrically welded properly with all necessary locking arrangement, and 1 coat red oxide primer including cost of all materials, labour charges, carriage of materials to site etc. complete.				
137	Ground Floor Qty.	203.38	Kg	134.82	27419.69
138	For Septic Tank				
139	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with sand, with common burnt clay non modular bricks.	1.56	Sqm	516.00	804.96

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140	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	22.00	Each	327.90	7213.80
141	Supplying and fixing C.I. cover without frame for manholes :				
142	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	2.00	Each	5891.20	11782.40
143	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
144	250 mm dia. R.C.C. pipe	12.00	Mt.	482.05	5784.60
145	Supply and filling of brick ballast for soak pit of approved size as shown in the drawing etc. all complete under instruction of Engineer in charge.				

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146	40mm thick Brick Ballast Aggregate	2.51	Cum	3931.00	9866.81
147	50 to 80mm Brick Ballast Aggregate	0.78	Cum	3931.00	3066.18
148	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in substructure upto plinth level with cement mortar 1:4 (1 cement : 4 coarse sand).	3.09	Sqm	301.60	931.94
149	Supply and filling of brick bats for soak pit of approved size as shown in the drawing etc. all complete under instruction of Engineer in charge.	0.27	Cum	1289.00	348.03
150	For Water Tank				
151	R.C.C. work of M-25 grade with 20mm and down grade black hard granite (crusherbroken) stone chips including hoisting and laying				
152	R.C.C Walls				
153	Ground Floor Qty.	1.93	Cum	5625.00	10856.25

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154	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-incharge. The product performance shall carry guarantee for 10 years against any leakage.				
155	For vertical surface two coats @ 0.70 kg per sqm	9.00	Sqm	424.80	3823.20
156	For horizontal surface one coat @1.10 kg per sqm.	2.25	Sqm	327.40	736.65
157					

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158	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design	3.00	Each	342.58	1027.74
159					
160	Supplying, fitting and fixing tile in floors of approved make conformaing to IS:13755 laid on 20 mm thick cement mortar (1:4) and filling joints with white cement of approved quality including cost of all materials, etc. required for the work all complete as per direction of E.I.C.				
161	Anti Skid Ceramic Tiles (300x300) mm				
162	Ground Floor Qty.	2.25	Sqm	889.80	2002.05
163	Fixing tiles in dados on 12mm thick CP (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the tiles including cost, carriage, cost of all labour etc. complete.				
164	Ceramic Tiles				

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165	Ground Floor Qty.	9.00	Sqm	1083.60	9752.40
166	For Sanitary Fixtures				
167	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
168	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	6.00	Each	5421.50	32529.00
169					
170	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
171	W.C. pan with ISI marked white solid plastic seat and lid	3.00	Each	5260.95	15782.85
172					
173	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	3.00	Each	297.55	892.65
174					

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175	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
176	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	7.00	Each	2846.90	19928.30
177					
178	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
179	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	4.00	Each	4982.25	19929.00
180					
181	Providing and fixing brass bib cock of approved quality :				
182	15 MM Nominal Bore	9.00	Each	302.55	2722.95
183					
184	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
185	15 MM Nominal Bore	20.00	Each	532.00	10640.00
186					
187	Providing and fixing PTMT grating of approved quality and colour.				
188	125 mm nominal dia with 25 mm waste hole	11.00	Each	51.25	563.75
189					

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190	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
191	Kitchen sink with drain board				
192	510x1040 mm bowl depth 250 mm	1.00	Each	5155.95	5155.95
193					
194	Providing and fixing adjustable type wash basin for handicap toilet complete with brackets, tracks , waste pipes and other accessories complete as required.	1.00	Each	8500.00	8500.00
195					
196	Providing and fixing 2 Nos. support arms and backrest to mounted on the track (vertically and laterally) for handicap toilet complete as required.	1.00	Each	4500.00	4500.00
197					
198	Providing and fixing raised toilet seat with cover for handicap toilet.	1.00	Each	15500.00	15500.00
199					
200	Providing & fixing of 450mm long stainless steel grab bar as per directions of Engineer-Incharge.	1.00	Each	1800.00	1800.00
201					
202	SOIL, WASTE, VENT AND RAIN WATER PIPES & FITTINGS				
203	Providing and fixing on wall face unplasticised Rigid PVC soil, waste and rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes				
204	110mm diameter	160.00	Metre	184.70	29552.00

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205	Providing , fixing testing and commissioning of SWR TYPE -B soil, waste and vent pipes (IS:13592-1992) including all fittings confirming to IS 14735-99,rubber ring confirms to IS 5382 including all required fittings e.g. bends, junctions, cowls, offsets, access pieces,clamps etc. jointing with ring Joints as per recommendation of manufacturer specifications including cutting, chasing of brick/RCC structure and making good the same as required complete in all respects as per direction of Project -In- Charge.				
206	b) 160 mm dia	120.00	Metre	1150.00	138000.00
207	Providing and fixing to wall or ceiling and floor rigid UPVC pipes class IV (8 kgf/cm ²)/class III (6kgf/cm ²) conforming to IS:4985/2000 and pipe fittings of the following nominal bore with clamps including making good the wall, ceiling and floor all complete as per specification				
208	40 mm diameter	40.00	Metre	88.06	3522.40
209	Fixing 100mm size ' P ' or ' S ' trap (with horn or without horn) for water closet squatting pan including jointing the trap with pan in cement mortar (1:1) as per specification.				
210	100mm dia SCI 'P' trap	11.00	Each	335.00	3685.00
211	Providing and fixing UPVC Clean Out plug (FCO & COP) with end cap for opening, complete in all respects.				
212	150mm dia	4.00	Each	1370.00	5480.00

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213	Providing and making Khurras with average minimum thickness of 5cm Cement Concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 Graded Stone Aggregate 20 mm nominal size) over PVC sheet 1 m x 1 m (PVC 400 microns min. thickness), finished with 12mm Cement Plaster 1:3 (1 Cement : 3 Coarse Sand, admixed with waterproofing compound) and a coat of neat cement, rounding the edges and making & finishing the outlet complete.				
214	Khurra Size 450 x 450mm, for 150mm dia outlet with 5mm thick circular/square vertical C.I grating.	2.00	Each	592.38	1184.76
215	<u>WATER SUPPLY SYSTEM (Internal & External)</u>		-		
216	Providing and fixing to wall or ceiling and floor galvanized mild steel tubes (medium grade) conforming to IS: 1239/2004, Part-1 of the following nominal bore, tube fittings and clamps including making good the wall, ceiling and floor, testing all complete as per specification				
217	20mm diameter	15.00	Metre	136.20	2043.00
218	25mm diameter	20.00	Metre	193.30	3866.00
219	32mm diameter	25.00	Metre	245.80	6145.00
220	40mm diameter	20.00	Metre	281.10	5622.00
221	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge				
222	15mm diameter	110.00	Metre	111.30	12243.00
223	20mm diameter	90.00	Metre	132.40	11916.00
224	25mm diameter	40.00	Metre	172.80	6912.00

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225	32mm diameter	20.00	Metre	223.40	4468.00
226	Fixing of Brass Ball Valve (Horizontal plunger type) conforming to IS 1703-1977 as per specification complete				
227	High pressure/Low pressure with copper or PVC floats of the following nominal bore				
228	20mm diameter	1.00	Each	360.00	360.00
229	25mm diameter	1.00	Each	480.00	480.00
230	32mm diameter	1.00	Each	1048.00	1048.00
231	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete				
232	20 mm dia nominal bore	2.00	Each	386.40	772.80
233					
234	Fixing Rotational moulded polyethylene cylindrical vertical water storage tanks conforming to IS : 12701--1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc, including hoisting upto a height of 5 metres above ground level and placing the tank to the required position etc all complete as per specification and direction of the Engineer in charge				
235	1000 litre capacity Double Layer Cylindrical Vertical water storage tanks On the roof of ground floor Details of cost for one Tank	2.00	Each	6013.50	12027.00
236	<u>SEWERAGE & DRAINAGE SYSTEM</u>				
237	Excavation of trenches of required width for pipes, including dressing of sides, ramming of bottom, depth upto 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cms depth including consolidating each deposited layers by ramming, watering, etc. and disposing of surplus excavated soil as directed outside the site to the approved dumping ground.				

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238	In all kind of soils				
239	Pipes exceeding 100mm dia but not exceeding 300mm dia.	160.00	Metre	227.84	36454.40
240	Laying (to level or slopes) and jointing with rubber rings pre-cast reinforced socket and spigot concrete pipes Class NP-2 conforming to IS:458 - 2003 suitable for rubber ring roll on joint of the following internal diameter as per specification complete. (Earthwork in trenches to be measured and paid for separately)				
241	150mm diameter	150.00	Metre	440.90	66135.00
242	200mm diameter	10.00	Metre	527.50	5275.00
243	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design				
244	180x150 mm size P type	5.00	Each	1317.90	6589.50
245	Constructing brick masonry Road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :				
246	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	Each	5794.85	28974.25

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247	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:4:8), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance ± 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.				
248	Plain Manholes inside size 900mm x 800mm and 450mm deep - Type A	7.00	Each	8410.90	58876.30
249	For Electric Work				
250	Recessed wiring to Light Point / Fan Point / Exhaust Fan Point / Call Bell Point with 1.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor of ISI marked with 20 mm dia non-metallic PVC flexible conduit with 5 Amp, 250 Volt piano type swich ISI marked and ceiling rose ISI marked mounted on MS box having front bakelite cover of suitable size, MS box with 1.0 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor of ISI marked as earth wire including all accesories and connection as per direction of engineer in charge. (Make of wire Finolex / L&T / Anchor / Hevels / V Guard)				
251	a)Light Point				
252	Midium	47.00	Point	607.10	28533.70
253					
254	b) Celling fan point				
255	Midium	13.00	Point	824.15	10713.95

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256	Recessed wiring for 5 / 6 Amp socket outlet with 2 X 1.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor of ISI marked with 20 mm dia non-metallic PVC flexible conduit with 5 Amp, 250 Volt piano type switch ISI marked, Phenolic laminated sheet of suitable size ISI marked MS box and earthing point with 1 X 1.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor for loop earthing etc. as required, as per direction of engineer in charge. (Make of wire Finolex / L&T / Anchor / Hevels / V Guard)				
257	Short	58.00	Each	394.07	22856.06
258	Recessed wiring for 15 / 16 Amp socket outlet with 2 X 4.00 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor of ISI marked with 20 mm dia non-metallic PVC flexible conduit with 5 Amp, 250 Volt piano type switch ISI marked, Phenolic laminated sheet of suitable size ISI marked MS box and earthing point with 1 X 2.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor for loop earthing etc. as required, as per direction of engineer in charge. (Make of wire Finolex / L&T / Anchor / Hevels / V Guard)				
259	Long	6.00	Each	543.31	3259.86
260	SUB-HEAD II :- CONDUITING FOR TELEPHONE, INTERCOM & DATA				
261	CONDUITING FOR TELEPHONE, INTERCOM & DATA				
262	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
263	25 mm	200.00	RM	90.00	18000.00

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264	TELEPHONE/ INTERCOM WIRING				
265	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
266	2 Pair	180.00	RM	20.00	3600.00
267	TELEPHONE TAG BLOCK				
268	Supply, installation, testing & commissioning of telephone tag blocks with 'KRONE" terminal connectors fixed in 16G powder coated, hinged, lockable door, sheet steel enclosure including civil work such as chase cutting, fixing/ concealing the box and making good as required including terminations:				
269	10 pair tele tag block	2.00	No.	2000.00	4000.00
270	TELEPHONE / INTERCOM OUTLET - MODULAR TYPE				
271	Supplying and fixing telephone socket outlet piano type ISI marked on the existing switch board / cover including connections etc as required.				
272	Telephone socket outlet	1.00	Nos.	62.14	62.14
273	OUTLET BOXES FOR TELEPHONE / INTERCOM OUTLET				
274	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
275	1 or 2 Module	1.00	each	175.00	175.00
276	DATA POINT				
277	Supply, Installation testing and commissioning RJ - 45 Computer Jack cat 6 with shutter Modular (1Module)	22.00	each	442.00	9724.00
278					
279	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required				
280	1 run of cable	225.00	meter	34.00	7650.00

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281	SUB-HEAD III :- FINAL DISTRIBUTION BOARDS				
282	Design, fabrication, assembling, wiring, supply, installation, testing & commissioning of Final Distribution boards made out of pre-treated and powder coated 1.2mm sheet steel and glazed steel door in double door enclosure with MCB's / RCCB's mounted on din channel, insulated prong bus bars rated for 100A and with separate neutral and earth terminals and in 1,2,3 & 4 pole versions as asked for or as required along with the cable end boxes on all sides of the DB's as per the requirement or Cup-board layout suggested by Architect/ Consultant.				
283	GENERAL NOTES FOR MCB's & DB's:				
284	MCB's shall be of minimum 10kA breaking capacity for 1 sec, unless specified otherwise i.e. of capacity higher than 10KA.				
285	Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B,C & D. as per the nature of the circuit/ load.				
286	Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of <u>100A</u> .				
287	UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link.				

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288	All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating.				
289	30mA DP ELCB's shall be used for each phase.				
290	Inside each DB, a DB chart is to be fixed.				
291	Exact MCB rating & category is to be calculated by the electrical contractor based on the load of the circuit, its nature and fault current.				
292	L+PDB - (12WAY SPN -DB) DOUBLE DOOR				
293	Supply and fixing of single pole MCB with sheet steel enclosure, distribution board, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnection, phosphate and powder painted including earthing etc. as required (But with out MCB/ RCCB/ ISOLATOR)				
294	12 way , Double door	2.00	EACH	4570.93	9141.86
295	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts `C' series, miniature circuit breaker (MCB)suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
296	single pole	16.00	EACH	199.00	3184.00
297	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
298	40 amps.	2.00	Each	2095.00	4190.00

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299	Supplying and fixing following rating, Single/ double/ three pole, 230/ 415 volts, MCB "C" curve in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
300	40 amps FP MCB	2.00	Each	1475.00	2950.00
301	SUB-HEAD IV :- CIRCUIT/ SUBMAIN WIRING				
302	Recessed wiring to Sub-Main in 2 X 2.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor of ISI marked with 20 mm dia non-metallic PVC heavy duty flexible conduit with 1.60 mm thick, along with 1 X 1.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor as earth wire as required as per direction of Engineer-in-Charge. (Make of wire Finolex / L&T / Anchor / Hevels / V Guard)				
303	2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth wire	275.00	RM	133.17	36621.75
304	Recessed wiring to Sub-Main in 2 X 6.00 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor of ISI marked with 25 mm dia non-metallic PVC heavy duty flexible conduit with 1.60 mm thick, along with 1 X 2.50 sq. mm FR PVC insulated Single Core Multi standard Copper Conductor as earth wire as required as per direction of Engineer-in-Charge. (Make of wire Finolex / L&T / Anchor / Hevels / V Guard)				
305	2 X 6 sq. mm + 1 X 2.5 sq. mm earth wire	110.00	RM	173.75	19112.50
306	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
307	32 mm	115.00	RM	92.00	10580.00

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308	4 X 10.00 sq. mm PVC INSULATED ALUMINUM CONDUCTOR insulated 4 Core Multi standard AL. Conductor of ISI marked with 32 mm dia non-metallic PVC heavy duty conduit with 1.60 mm thick, along with 1 X 4 sq. mm FR PVC insulated Single Core Multi standard copper Conductor as earth wire as required as per direction of Engineer-in-Charge. (Make of wire Finolex / L&T / Anchor / Hevels / V Guard)	75.00	RM	408.08	30606.00
309	SUB HEAD V :- LIGHT FIXTURE & FAN				
310	Supply and fixing of recess/ Surface/ Pendant mounting round 10 to 12 Watt LED Down Lighter having Powder coated diecast aluminium housing with heat sink, diffuser/ Reflector and driver set complete in all respect.	19.00	Nos	1050.00	19950.00
311	Supply and fixing of LED Tube Light with batten suitable for up to 1 X 22 watt LED tube light complete including tube etc on surface complete in all respect.	10.00	Nos.	543.00	5430.00
312	Supply and Fixing of 10W LED Bulb & fixture with all interconnections of approved makes and fixing arrangements as required	12.00	Nos.	250.00	3000.00
313	Supply, Erection and testing of exhaust fan on the existing hole with suitable size of rag bolts, nuts and washers etc., complete in all respect.	6.00	Nos.	1350.00	8100.00
314	Supply, Installation, Testing & Commissioning of 1200mm Ceiling Fan	13.00	Nos.	2500.00	32500.00
315	SUB HEAD VI :- ELECTRICAL PANEL				
316	Incoming :				
317	1No. 63A 10KA, 4P MCB ,MCB shall have 1NO + 1NC auxiliary contacts + a trip contact.				
318	4 Pole 100 Amp 25KA Aluminium bus bars with heat shrinkable sleeves.				
319	LED type R,Y,B Phase Indication lamps				
320	Outgoings:				

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321	1 Nos. 40A 10KA, 4P, MCB's				
322	6 Nos. 40A 10KA, DP, MCB's				
323	Panel as described above.	1.00	Set	25000.00	25000.00
				Total	9496938.02

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