

**HS COLLEGE, HAVELI KHARAGPUR  
MUNGER UNIVERSITY, MUNGER (BIHAR)**

(ADMINISTRATIVE BLOCK, SHASTRINAGAR, MUNGER, - 801201)

Group-

1. Name of work . CONSTRUCTION OF SEMINAR HALL BUILDING
2. ( To be mentioned on .....  
The envelop) .....
3. Estimated cost . 7773990.00
4. Cost of B.O. Q. ( non – refundable) 8000.00
5. Amount of earnest money . 155480.00
6. Details of earnest money .....
7. Time of completion . 6 MONTHS
8. Date and Time of sale of B.O.Q. 28/03/2026
9. Date of Submission of sealed tender 12.04.2026

Notes :-

- i. All casting shall compulsorily be done by using vibrator & mixer machine et pile work.
- ii. Unless otherwise specified only TATA, SAIL, JSW and JINDAL T.M.T. Steel shall be used.
- iii. The agency shall have to keep at least three cubes at the site of the work  
For quality testing. The expenditure on quality test shall be born by the Agency.
- iv. Only designation 100 A (First class) bricks shall be used.
- v. Only high class paints / Snowcem approved by E/I. And U.E. shall be Used.
- vi. Payments of works beyond agreement items if any shall be made as per S.R. plus %  
above or below on which the work is allotted to the agency.
- vii. It is compulsory to indicate total amount at the end after filling rate of each and every  
items separately failing which the tender is liable to be rejected.
- viii. No claims what so ever shall be entertained in case of any delay in the payment.
- ix. Only potable water shall be used in the construction work for which arrangement is to  
be made by the agency only.
- x. It will be compulsory to execute agreement within (15) fifteen days from the date of  
allotment of work, failing which the allotment shall be cancelled and Earnest Money  
deposited at the time of submission of tender shall automatically be forfeited.
- xi. Foundation work shall be executed as per site condition.
- xii. 1% cess in addition to Sale-Tax, Income tax and royalty shall be deducted as per rules  
from contractor's bills.



University Engineer/ Architect

  
**Retired Executive Engineer**  
**Building Construction Department**  
**Govt. of Bihar**

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**B.O.Q**

To be filled in by the Contractor.

1. Name of work .....
2. Date of tender.....
3. Quoted rate (both in words and figures)
  - (a) On SR' (w.e.f 01.01.2022)-.....(in words.....)
  - (b) Below SR' (w.e.f 01.01.2022) )-.....(in words.....)
  - (c) Above SR' (w.e.f 01.01.2022) )-.....(in words.....)
4. Registration No. ....
5. Details of I.T.C.C. ....
6. Details of GST .....
7. Details of labour license AS / GOVT LAWS .....
8. Time of complete required  
By the contractor. ....
9. Time of complete Money deposited &  
any other document if the tender wishes  
to furnish. ....
10. Signature of Contractor  
With full address & contact nos. ....

**SIGNATURE**

**HS COLLEGE, HAVELI KHARAGPUR MUNGER**  
**UNIVERSITY, MUNGER**  
**NOTICE INVITING TENDER**

1. Sealed tenders are invited in two bids ( technical and financial bid in separate envelope) on approved Bill of Quantity from Registered Contractor of appropriate category in University works Dept./ Building construction dept. govt of Bihar, . . to be eventually drawn in P.W.D. from no. F-2 will be received up to 3.0 PM P.M. on 10.4.26 by the Registrar, Munger University, Munger for the work and will be opened on the same day at 10.4.26 P.M. in the presence of tender or their authorized agents whoever may be present in the office of the Registrar. Munger University.
2. Tenderers should quote rates as below / above/ on B.O.Q. rates on the percentage basis both in figure and words of all items of works as a whole. They are also required to quote rate against each item of work separately.
3. The rate shall be inclusive of all taxes, royalties, carriages and all other incidental charges, payment of which will be sole responsibility of Contractors.
4. (a) The amount of estimate is **7773990.00**  
(b) Percentage of rate quoted shall be up to two places after decimal and not lower and above .  
 $A-B/A \times 100 < \text{or} = 15\%$  will be deemed to be unworkable and tenders containing such rates will be out rightly rejected.  
Where A = Estimated amount.  
B = Quoted amount .
5. The work is to be completed within a period of 6 Months From the Date of issue of written order of commencement of the work.
6. All tenders are required to deposit Earnest Money of **155480.00** In the shape of Six years N.S.C., three years post Office time deposit, Bank draft etc. duly pledged in favour of the Registrar, Munger University .  
Tender not accompanied with Earnest Money in From the specified above shall be out rightly rejected
7. All information can be obtained from the office of the Registrar, on submission of application addressed to the Registrar.
8. B.O.Q. can be obtained from the office of the Registrar, University or download from university web site , Munger University, Munger.....on payment of **Rs.8000.00** ( Non – refundable) on production of upto date labour license, Sale Tax Registration & Clearance certificate, income Tax Clearance Certificate, Contractors Registration Certificate & Character Certificate on any working day as mentioned in the N.I.T. during working hours except on the date of receiving tender. The down load tender documents may be submitted to the authority along with the cost of BOQ and earnest money.
9. Authority reserves the right to reject any or all the tenders received, no reaction for the rejection of all or any of the tenders, whatever will be given. Authority also reserves the right to distribute the work among two or more tenderers.
10. The Earnest Money of the successful tenderer will be for forfeited in case he declines to sigh, the agreement of contract or to deposit balance of stipulated initial security money within ten days of being called upon to do so after acceptance of this tender.

11. Conditional tender will not be accepted.
12. It will be obligatory on the part of the tenderer to keep his offer open for acceptance for the period of 180 days from the date of opening tenders.
13. N.I.T. and special conditions will form the part of the agreement.
14. GST equal to 2% (two percent) shall be deducted from the bills.
15. Tenderer shall have to submit the Photostat copy of up to date income tax Clearance Certificate, Sales -Tax clearance Certificate, Labour License, Contractor's Registration Certificate, Character Certificate with tender papers, otherwise the tender shall be rejected.
16. Contractor should be registered with the Sales Tax dept. and a photocopy of the Registration Certificate should accompany with the tender paper otherwise the tender shall be rejected.
17. Bill of Quantity shall be issued to the contractors on production of Sales Tax Certificate, Contractors Registration Certificate, I.T. & S.T. Clearance Certificate & Character Certificate etc. in original.
18. A photocopy of the Character Certificate from the District Magistrate / Superintendent of Police duly signed by the competent authority should be attached with the tender paper otherwise the tender shall be rejected.

University Engineer/Architect  
Munger University , Munger

  
**Retired Executive Engineer**  
**Building Construction Department**  
**Govt. of Bihar**

**HS COLLEGE, HAVELI KHARAGPUR MUNGER  
MUNGER UNIVERSITY, MUNGER**

**SPECIAL CONDITIONS**

1. (a) Tender must be accompanied by a letter stating works of similar nature and magnitude done by the tenderer with the name of work, value of contract, time, actually taken in completion of the work ( stating briefly the reasons for delayed completion of work, if any ) and a certificate from the Executive Engineer/ University Engineer under whom the work has been executed with the seal of his office.
  - (b) Details of other works of similar nature of amount 50% of BOQ amount and magnitude tendered for an in hand on the date of this tender with aforesaid details mentioned in the proceeding sub-para.
  - © Details of technical personnel's of 1 no. degree and 1 no. diploma to be employed by the tenderer on this particular work stating their qualification and experience.
  - (d) Details with descriptive narration of plants and machineries for niddle vibrator, water tanker , shuttering plate, reverse rotary rig machine and material testing equipments whom or sub contract period of at least three years to be used and the position regarding a viability of the same with the copies of certificates if any.
2. Tenderer must examine the site and the various aspects likely the construction and cost and then quote rate with full knowledge of all condition.
3. The work must be carried out strictly as per.
  - (a) Department specification and in absence of the same I.S.I specification.
  - (b) Design and Drawing duly approved by competent authority. Ignorance of the specification and design and drawing shall not be any excuse and work found contrary to above shall not be acceptable and paid and shall be got removed at contractors cost.
5. All rate quoted in the tender should be for complete job including all carriage, royalty, GSTax, Income Tax and other taxes, the payment of which shall be sole Responsibility of the contractor .
2. Rules laid down in motor Vehicle Act -xx will have to be followed.
3. Labour Rules fixed from time to time shall have to be followed .
4. Stone chips, stone metals, bricks and sand confirm to I.S.I. specification and shall be as per samples approved by the Engineer in - Charge.
5. The centering and reinforcement for the R.C.C. work and wood work in doors and Windows and roof members should be got approved by Engineer- in- charge before taking up sequence of works.
6. Tender has to make complete arrangements for all accessories, plants and machines required for the execution of the work.
7. The contractor shall be use tools and plants, machineries and equipments after duly approved by Engineer in - charge , for different works for which hire charges will not be payable by the Dept..
8. Contractor shall have to maintain necessary technical organization for proper execution of works. He should employ only such persons who are skilled and experienced in their similar trades and working and the University Engineer/architect shall be at liberty to object and

require the contractor to remove from works any person employed by the contractor who is in his opinion guilty of his conducts or is incompliant or negligent in proper performance of his duties and such person shall not be employed by the contractor without permission of the University Engineer. The all documents should be self attested with M. no. and date

9. No conditional tender will be accepted.
10. Structural steel should be cleaned of foreign materials before use at the cost of contractors.
11. No building materials shall be supplied by the University Works departments.
12. Any addition and alternation in the work must be done under of the competent authority in before the rank of University Engineer. The contractor shall get such orders from competent authority in writing or duly entered in site order hook conveying sanction by officer not below the rank of Assistant Engineer.
13. Site order book and reinforcement register shall be maintained by the junior Engineer site or work for noting anything concerning the work which will be the property of the Deptt. The contractor will mention the name of his authorized representative and attest his signature in the site order Book, who will receive instruction and comply them on his behalf as if instructions have been received and complied by him (contractor).

A copy of the entries in the site order book may be had from the junior Engineer if the contractor so desires. In case the instructions are not being signed and complied by the authorized representative deliberately. Note to this effect will be made by the Junior Engineer who in turn will produce the said as deemed fit under the relevant clauses of the agreement. After the Engineer in-charge is informed and he agrees with the remarks of junior Engineer the order or instruction given will have the same effect as if given on the date mentioned but not signed in disobedience to instructions. The contractor can also write on the site order book regarding compliance of the orders and problems if he has any.

14. The value of work to be done should not exceed the agreement amount without the prior permission of the Engineer in-charge of work.
15. Payment will be made subject to availability of fund and no claim what so ever shall be entertained for non-payment on this score.
16. quoted rates shall be based on leads from sources of essential/building materials as given in annexure-1 and if the actual collection is made on shorter leads that what mentioned in tender documents than approved rated shall be modified subsequently proportional to difference in lead by the authority accepting the tender and in the event of collection of materials from sources at higher lead than that mentioned in tender document, process of collection should take place only after approval of the same by the authority competent of approve the tender.
17. Sand for brick masonry shall confirm to I.S.2160-1905 and fineness modulus shall not be less than 1.8 fine silt passing 203 B.S. sieve or micron sieve shall not be more than 5% in any case.
18. Sand for concrete work shall be of approved grading and fineness modulus shall not be less than 2.2 in any case and for other works fineness modulus will be less than 1.8.
19. All necessary labour, land, materials, equipments etc for sampling and preparing test specimen for different type of construction with minimum desired frequency given below shall be provided by the contractor. Testing of materials and concrete may be arranged by the engineer in- charge in an approved laboratory at the cost of the contractor.

<u>Type of construction &amp; materials</u>	<u>type of test</u>	<u>Maximum desirable frequency</u>
(a) Controlled & ordinary concrete	(i) work strength test	For each day of concerning Test shall be conducted on ten specimens. Five of seven & remaining. Five at 28 days
	(ii) Workability of concrete	One test per 10M <sup>3</sup>

(iii) Cements (physical &	Once for each of supply and Chemical test) occasionally when called for In case of long& or improper Storage.
(iv) Coarse and fine aggregate	One test per 15m <sup>3</sup> part Aggregate thereof.
(v) Gradation test Bulking	once for each source for Of five aggregate (forderiving the moisture Volume batching) content & bulking relationship.
(vi) Los Angles Abrasion	One for each source of supply. Value Aggregate impact Test Brick Masonry
(vii) Los Angles Abrasion	one for each source of supply. Value Aggregate impact Test

20. The contractor will have to submit a phased programmed for the completion of the major itemed of works which after approval by the University Engineer shall be strictly adhered to. In addition he shall submit a phased fortnightly programmed of process of construction of each item so as to complete the work within the specified period of completion.
21. The authority reserves the right of deleting any item out of the tendered items without any violation of the contract.
22. Before executing agreement the tenders are required to produce a copy of registration and license for labour contract with labour dept. Govt. of Bihar as per labour contract Act. 1970 and its subsequent amendments, if any, without which the agreements may not be executed and Earnest Money may be forfeited if deemed fit.
23. All the materials to be used in works must be shown & got approved by the Engineer in-charge before using them in works and brought to site for actual consumption in works.
24. Recovery on account of royalty & access on materials used in the will be made from running on account on account bills to the event involved at rate approved by the concerned Govt. dept. From time to time during the entire period of contract till payment of final bill. Part or full amounts so deducted can only be refunded after obtaining clearance to the effect from the District Mining Officer.
25. All labourer are to be paid wages as per current, minimum wages Act .During the entire period of execution of work .
26. The contractor will provide labour butts, drinking water etc to the labours working at site and keep the site clean and tidy at his own cost as per rules and regulations of the Govt . of Bihar and central Govt. of which be should keep himself fully conversant and upto date .
27. All materials to be supplied by the contractor for use in work should be got approved by the engineer in – charge prior to their use in works. All rejected materials shall have to be removed promptly sand latest within 10 day after rejection from the site otherwise the Engineer – in – charge can dispose them off in any way he likes and for which no claim what so ever will be payable . The cost involved in their removal will also be recovered from the contractor and a certificate to this effect from the Engineer – in –charge shall be final bindings and conclusive on the contractor
28. No. claim will be entertained for other items of work if done by the contractor unless order in writing by officer not below the rank of Engineer-in-charge himself and verbal orders will not be binding on either side .
29. Payment may be completely denied for particular unfinished items of work , if deemed fit by the Engineer-in- charge.

30. The contractor will not be compensated for any loss due to increase in hire or running charges of vehicles of equipments and plants , either by central state or semi – Govt.Private bodies.
31. The contractor shall be responsible for all sorts of accidents occurred due to mismanagement of the contractor who shall be responsible to pay any damage or compensation on account of such accident.
32. The department will not pay compensation for the loss incurred due to :
  - (i) Labour strikes
  - (ii) Payments to labours arising out of the award by labour tribunal for any part of the strike period or enhanced wages.
  - (iii) Any losses suffered due to war or enemy action whether declared or undeclared.
  - (iv) Fire, Famine, epidemics, riots or any other natural calamities.
  - (V) Stoppage of work due to any cause of circumstances.
33. GSTax shall be charged 1% /GST /CGST from the Bills.
34. Contractor should be registered with the GST dept. And a photo of the registration certificate should accompany with the tender paper.
35. A photo copy of character certificate obtained from the District Magistrate / Superintendent of Police duly signed by them should be attached with the tender paper otherwise the tender shall be rejected.



University Engineer/architect

  
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**HS COLLEGE, HAVELI KHARAGPUR MUNGER**  
**MUNGER UNIVERSITY**

( Administrative Block, Shastrinagar, Munger – 811201)

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**DECLARATION**

(To be filled in the contractor / agency )

I sri -----son of Sri-----of

Village / mohalla-----P.O-----

P.S-----Distt-----Telephone/mobile no-----

Hereby declare that under any circumstances I would not sublet the work of construction of

.....if

Allotted to me . I further declare that I would undertake the execution of agreement and all official works my self. The execution of works, preparation of bills and receipt of bills etc. shall be done directly by me and not by any of my authorized persons . if at any stage it is found that the work has been sublet or is being sublet rhe tender / allotment of work will be rejected and the E/M./S.D. shall be forfeited.

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Signature

Place : -----

Mo:-----

Date : -----

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Note : The tender is liable to be rejected if not accompanied with this declaration form duly filled in .

CONSTRUCTION OF GROUND FLOOR							
WORK :- BILL OF QUANTITY FOR THE CONSTRUCTION OF THE SEMINAR HALL BUILDING AT HARI SINGH COLLEGE, HAVELI KHARAGPUR , BIHAR BASED ON CURRENT SOR OF 2022 & 2023							
BUILT UP AREA= 2652.80 sqft							
S. No	Description of Items	NOS.	Qty	Unit	Rate (As per BSR 2022)	Amount (In Rs.)	Item Code
1	Clearing jungle including uprooting of rank vegetation ,grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.		300.00	%sqm	697.40		2.32
2	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.		300.00	%sqm	357.20		2.33
3	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All Kinds of soil						
			161.82	cum	360.70		2.8.1
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead-50%		80.91	cum	123.90		2.26
5	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.						
			300.85	cum	287.30		2.28
	<b>SUB HEAD TOTAL</b>						<b>93,774.50</b>
	<b>CEMENT CONCRETE</b>						
6	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.						
a)	1:1.5:3(1 Cement :1.5 coarse sand:3 graded stone aggregate 20mm nominal size)						
			27.95	cum	4918.50		4.5.2
7	Extra for providing and mixing water prooding material in cement concrete work in the proportion recommended by the manufacturers.		156.25	per 50 kg cement	57.16		4.12
	<b>SUB HEAD TOTAL</b>						<b>0.00</b>
	<b>REINFORCED CEMENT CONCRETE</b>						
8	Centring and shuttering including strutting,propping etc. and removal of form for.						5.90
a)	Foundations, footings, bases of columns etc. for mass concrete.						
			98.57	sqm	211.60		5.9.1
b)	Suspended floors, roots, landings, balconies and access platform.						
			263.78	sqm	437.50		5.9.3
c)	Lintels, beams, plinth bams, grids, bressumers and cantilevers.						
			329.76	sqm	404.70		5.9.5
d)	Columns,Pillars, Piers, Abutments, Posts and Struts						
			144.89	sqm	494.40		5.9.6
e)	Stairs,(excluding landings) except spiralstaircaces.						
			26.93	sqm	439.90		5.9.7
f)	Weather shade,Chajjas, corbels etc. including edges		40.00	sqm	550.90		5.9.19
9	Providing,precast cement concrete Jali 1:2:4(1 cement:2 coarse sand:4 stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement:3 fine sand) etc.complete excluding plastering of the jambs, sills and soffits 40 mm thick		4.00	sqm	936.20		5.18.2
10	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.						
	wt of steel 136.10 cumx140=19054.00		19054.00				
a)	Thermo-Mechanically Treated bars TMTC-500-8mm dia.	20%	3810.80	Kg	94.50		5.22.7A

SRIJAN, 3rd FLOOR, I.G COMPLEX, WEST BORING CANAL ROAD, PATNA-23

*[Signature]*  
**Retired Executive Engineer**  
**Building Construction Department**  
**Govt. of Bihar**



b)	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	20%	3810.80	Kg	92.60	5.22.7B
c)	Thermo-Mechanically Treated bars TMTC-500-12mm dia & above	20%	3810.80	Kg	90.80	5.22.7C
d)	Thermo-Mechanically Treated bars TMTC-500-16mm dia & above	15%	2858.10	Kg	91.70	5.22.7D
e)	Thermo-Mechanically Treated bars TMTC-500-20mm dia & above	15%	2858.10	kg	91.70	5.22.7E
f)	Thermo-Mechanically Treated bars TMTC-500-25mm dia & above	10%	1905.40	kg	91.70	5.22.7F
11	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete					
a)	All work upto plinth level					
			37.35	cum	4756.90	5.33A.1
b)	All work from plinth level upto floor V level - Walls columns, pillars, posts and struts					
			25.90	cum	5293.50	5.33A.2
c)	All work from plinth level upto floor V level - Beams, plinth beams, girders, bressums, cantilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc.					5.33A.2.2
			72.85	cum	5677.20	5.33A.2.2
12	Add or deduct for providing richer or leaner mixes respectively at all floor levels.(a) Providing M-35 grade R.C.C. instead of M-20 grade R.C.C.		136.10	cum	164.50	5.33B.1
	<b>SUB HEAD TOTAL</b>					
	<b>BRICK WORK</b>					
13	Brick work with bricks of class designation 100A in foundations and plinth in :Cement mortar 1 :.4 (1 cement: 4 coarse sand )					
			49.44	cum	5017.90	6.1.12/1
14	Extra for Brick work in superstructure above plinth level upto floor V cum		49.44	cum	842.20	6.3A
15	Half brick masonry with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:4 (1 cement: 4 coarse sand)					
			33.31	sqm	599.30	6.18.4A
16	Extra for half Brick masonry in superstructure above pinth level upto floor V level.		33.31	sqm	89.70	6.19A
17	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F. P. S. bricks)		33.31	sqm	113.60	6.21A
	<b>SUB HEAD TOTAL</b>					0.00
	<b>WOOD AND P.V.C. WORK</b>					
18	Providing wood work in frames of doors, windows, celresory windows and other frames, wrought framed and fixed in position. Salwood					
			0.17	cum	95670.70	9.1.2
19	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters					
	35 mm thick including stainless steel butt hinges with necessary screws-					
			8.94	sqm	2845.60	9.20.1
20	Providing 40x5mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts,nuts and wooden plugs and embeddings in cement concrete block 30x10x15cm 1:3:6(1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)		14.00	each	130.80	9.53

21	Providing and fixing aluminium sliding tower bolt anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour and shade with nuts and screws etc. complete:					
a)	300 x 10 mm	2.00	each	111.40		9.97.1
b)	150 x 10 mm	2.00	each	71.60		9.97.4
22	Providing and fixing aluminium sliding door bolt anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with nuts and screws etc. complete: 300 x 16 mm					9.218
a)	300x16 mm	2.00	each	235.50		9.96.1
b)	250x16 mm	2.00	each	195.50		9.6.2
23	Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour and shade with nuts and screws etc. complete: 125mm					9.222
a)	125 mm	6.00	each	57.10		9.100.1
b)	100 mm	2.00	each	50.30		9.100.2
24	Providing and fixing aluminium hanging floor door stopper anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour and shade with nuts and screws etc. complete: twin rubber stopper	2.00	each	60.80		9.101.2
25	Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm ( ±0.2 mm ) , corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fasteners, all complete as per manufacturer's specification and direction of Engineer-in-charge.					
		9.90	m	516.80		9.143
26	Providing and fixing 37 mm thick factory made PVC door shutter, styles and					9.144
		3.15	sqm	3492.80		9.144
27	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc.all complete					
a)	fixed to openings/wooden frames with rawl plugs screws etc					
		766.97	kg	161.10		9.48.2
28	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-tron 40x40x6 mm with 40 mm dia steel pulleys complete with bolts.nuts locking arrangement stoppers handles including applying a priming coat of approved steel primer.	11.13	sqm	6303.40		10.3
<b>SUB HEAD TOTAL</b>						
						<b>0.00</b>
<b>STEEL WORK</b>						
29	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete: Hot finished seamless type tubes	275.00	Kg	137.90		10.16.2
30	Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel, etc. as required. In gratings, frames, guard bar, ladders,	275	Kg	114.60		10.32.2
31	Providing and fixing hand rail by welding etc. to steel ladder railings & staircases railing including applying a priming coat of approved steel primer. E.R.W tube 40 mm nominal dia	325	Kg	116.10		10.33.2



32	Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) touch lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.					
	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).					
		38.34	SQM	9083.30		9.147D.4
33	Providing and fixing pressed steel door confirming IS code 351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50 x 25 mm or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:Profile C	5.17	M	405.80		10.15.1
34	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners. all necessary fittings complete including applying a priming coat of approved steel primer.	2.226	sqm	3653.00		10.5.1
<b>SUB HEAD TOTAL</b>						0.00
<b>FLOORING</b>						
35	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture ) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.					
		20.92	sqm	795.00		11.36
36	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours except white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete.					
		8.19	sqm	1414.00		11.40.

37	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand ) including grouting the joint with white cement and matching pigments etc., complete. Size of Tile 60x60 cm					
		205.56	sqm	1638.80		11.41.2
38	Providing and laying machine cut , mirror polished, italian Marble stone flooring in required design with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with	0.00	SQM	5908.40		11.52
39	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . 25mm thick					
		7.61	sqm	1252.70		11.26.1
40	Kota stone slabs 20 mm thick in risers of steps skirting. Dado & pillars laid on 12 mm (average) thick cement mortar 1:3(1 cement; 3 coarse sand ) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.					
		26.56	sqm	1334.90		11.27
41	Extra for nosing in steps and treads of kota stone slab	44.40	m	82.90		11.31
42	Extra for kota stone flooring in steps and trades not exceeding 30 cm in width	26.56	sqm	18.10		11.32
43	Providing designation 100 A one brick on edge soiling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,					
		333.24	sqm	283.30		11.72
<b>SUB HEAD TOTAL</b>						
<b>FINISHING</b>						
44	6 mm cement plaster to ceiling of mix :1:4(1 cement: 4 coarse sand)					
		379.24	sqm	131.30		13.24.1
45	20 mm cement plaster of mix :1:3 (1 cement: 3 coarse sand)					
		1056.32	sqm	227.60		13.13.1
46	Extra for providing and mixing water proofing material in proportion recommended by the manufacturers;	1056.32	sqm	12.80		13.36.5
47	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	1056.32	sqm	105.20		13.40A
48	providing and applying wall painting with emulsion paint of approved shade and design					
49	New work (Two or more coats) over and including priming coat with cement primer	379.24	sqm	86.40		13.92.1
50	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade New work (three or more coats)INCLUDING Applying one coat of cement primer of approved brand and manufacture on wall surface:Cement primer	1056.32	sqm	119.80		13.78.1 + 13.79.1
51	Applying priming coat: With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works					
		93.92	sqm	34.60		13.81.3
52	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade: New steel work (two or more coats)	93.92	sqm	83.50		13.82.1
53	Painting with oil type wood preservative of approved brand and manufacture					
a)	New work (two or more coat)					
		7.00	sqm	34.10		13.88.1
54	Applying priming coat with ready mix pink or grey primer of approved brand and manufacture on wood work( hard and soft wood).	7.00	sqm	39.70		13.81.1
55	Painting with ready mix paint of approved brand and manufacture in all shade to give an even shade: new wood work (two or more coats)	7.00	sqm	83.50		13.82.2

  
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**Building Construction Department**  
**Govt. of Bihar**



56	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of ready mixed zinc chromatic yellow primer on new work.					
a)	75 mm diameter pipes	6.00	metre	27.60		13.86.2
b)	100 mm diameter pipes	6.00	metre	36.70		13.86.3
57	Providing and fixing polythene sheet.	175.00	sqm	30.00		Approved
<b>SUB HEAD TOTAL</b>						<b>0.00</b>
<b>ROOFING</b>						
58	Providing asbestos cement 6 mm thick corrugated sheets roofing and fixing with G.I. J or L hooks bolts and nuts 8 mm dia G. I. plain and bitumen washers complete excluding the cost of purlins, rafters and trusses corrugated sheet upto 60 degree pitch	24.00	sqm	371.70		12.10.1
59	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.					
a)	110 mm diameter	12	Metre	257.50		12.78.2
60	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.					
a)	Coupler-110mm	6	each	120.00		12.79.1.2
b)	Single tee with door 110x110x110mm	6	each	193.40		12.79.3.2
c)	Bend 87.5 - 110 mm bend	6	each	132.00		12.79.5.2
d)	Shoe plain - 110mm shoe	6	each	115.95		12.79.6.2
61	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4coarse sand and making good the wall etc complete-110mm					
a)	75mm	6	each	184.10		12.80.1
b)	110mm	4	each	182.72		12.80.2
62	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	6	each	47.90		12.81
<b>SUB HEAD TOTAL</b>						<b>0.00</b>
<b>MISCELLANEOUS ITEM</b>						
63	Extra for carriage cost of materials					
a)	Local Sand	286.27	cum	274.46		A/R
b)	Coarse sand	176.76	cum	1157.34		A/R
c)	cement	86.10	ton	198.00		A/R
d)	Reinforcement	25888.00	ton	198.00		A/R
e)	Stone aggregate	204.83	cum	2189.28		A/R
f)	Bricks	41598.00	0%	812.6		A/R
64	<b>SEIGNORAGE FEES</b>					
a)	CORSE SAND	267.99	cum	25.080		
b)	BRICKS	46227.40	th/p	0.34		
c)	Stone aggregate	218.26	cum	25.080		
<b>SUB HEAD TOTAL</b>						<b>0.00</b>
<b>WATER SUPPLY AND SANITARY WORK</b>						

### DETAIL ESTIMATE for Providing anti termite treatment work

Sl.	Item of Work	Quantity	Unit	Rate	Amount (Rs.)	Remarks
<b>WIRING</b>						
65	Supplying chemical emulsion in sealed containers including delivery as specified.					
	Chlorpyriphos/Lindone emulsifiable concentrate of 20%	100	litre	199.90		2.36
	Diluting and injecting chemical emulsion for POSTCONSTRUCTION anti-termites' treatment(including the cost of chemical emulsion)					2
a	Along external wall where the apron is not provided using chemical imulsion @ 7.5 liters / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete					2.37.1
	With chlorpyriphos/Lindone E.C. 20% with 1% concentration	120	Meter	39.90		2.37.1.1
b	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.55 litres per linear metre including drilling and plugging holes etc					2.37.2

	With chlorpyrifos E.C. 20% with 1% concentration	186	Meter	49.10		2.37.2.1
c	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling and plugging 12 mm diameter holes with cement mortar 1:2 (1 cement: 2 coarse sand) to match the existing floor.					2.37.3
	With Chlorpyrifos EC 20% with 1% concentration	191	sqm	241.20		2.37.3.1
d	Treatment of existing masonry using chemical emulsion@ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2(1 cement:2 coarse sand) to the full depth of the hole.					2.37.4
	With chlorpyrifos EC 20% with 1% concentration	150	Meter	54.00		2.37.4.1
e	Treatment at points of contact of wood work by chemical emulsion chlordane. (in oil or kerosene based solution)@ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	30	Meter	270.20		2.37.5
<b>WORK :- WATER SUPPLY &amp; SANITARY WORK BASED ON BCD</b>						
S. No	Description of Items	Qty	Unit	Rate	Amount (In Rs.)	Item Code
<b>SANITARY INSTALLATIONS</b>						
67	Providing and fixing water closet squatting pan ( Indian type W.C. pan) with 100mm sand cast iron P or S trap. 10 litres low level white P.V.C. flushing cistern 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.					
a)	White vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	1.00	Each	4470.90		17.1.1
68	Providing and fixing white vitreous china pedestal type water closet (European type) with seat lid. 10 litre low level white vitreous china flushing cistern & C.P. flush bend fittings & C.I. brackets, 40mm mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.	1.00	Each	5504.30		17.3.1
69	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm 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.					
a)	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	2.00	Each set	10799.90		17.4.4
b)	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. /PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I. clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :					
	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	1.00	Each set	7753.00		17.6.2
70	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.					
a)	White vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	2.00	Each	2530.30		17.7.3
71	Providing and fixing 100mm sand cast iron grating for gully trap.	2.00	Each	45.20		17.29
72	Providing and fixing 600x450mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	Each	1068.50		17.31
73	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete with 40mm long screws, rawl plugs, etc. complete.	2.00	Each	713.30		17.33
74	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete					

	a) 40 mm dia		2	Each	104.40		17.28.1.2	
75	Providing and fixing C.P. bass angle valve for basin mixer and geyser points of approved quality conforming to I.S.8931 a) 15 mm nominal bore		2	Each	500.4		18.53.1	
76	Providing and fixing unplasticised P.V.C connection pipe with PTMT Nuts collar and bush of approved quality and colour.							
a)	15mm nominal bore with 45cm length		6.00	Each	108.00		18.74.2	
<b>TOTAL OF SUBHEAD</b>								<b>0.00</b>
<b>WATER SUPPLY</b>								
77	Providing and fixing G.I. pipe complete with G.I. fittings and clamps i/c making good the wall etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall.							
a)	15mm dia nominal bore		150.00	metre	318.90		18.11.1	
b)	20mm dia nominal bore		150.00	metre	374.00		18.11.2	
78	Providing and fixing G.I. pipe complete with G.I. fittings including trenching and filling complete. For external work							
a)	25mm dia nominal bore		100.00	metre	342.00		18.12.3	
b)	50mm dia. Nominal bore		100.00	Metre	572.60		18.12.6	
79	Providing and fixing gun metal gate valve with C.I wheel of approved quality.(screwed end).							
a)	25mm dia. Nominal bore		24.00	Each	532.30		18.17.1	
b)	50 mm nominal bore		12.00	Each	707.30		18.17.4	
80	Providing and fixing gun metal non-return valve of approved quality (screwed end).							
a)	25mm dia. Nominal bore - Vertical		24.00	Each	573.50		18.19.1.2	
b)	50mm dia. Nominal bore - horizontal		12.00	Each	677.70		18.19.4.1	
81	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work).							
a)	15 mm nominal bore.		12.00	Each	158.80		18.46.1	
b)	20 mm nominal bore.		12.00	Each	185.60		18.46.2	
c)	25 mm nominal bore.		12.00	Each	265.90		18.46.3	
d)	50 mm nominal bore.		12.00	Each	565.60		18.46.6	
82	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.							
a)	15 mm nominal bore.		18.00	Each	715.10		18.50.1	
83	Providing and fixing CP brass stop cock of approved quality:							
a)	15 mm nominal bore.		8.00	Each	708.40		18.52.1	
84	Constructing masonry chamber 60x45x50 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and inside plastering with cement mortar 1:3(1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design:							
a)	with F.P.S Bricks		2.00	Each	6849.90		18.37.1	
85	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of same materials with snap fittings of approved quality and colour weighing not less than 105gms.		2.00	Each	146.30		17.71	
86	providing 2000 litre upvc water tank with ISI Mark with all complete job		2000.00	LTR	9.70		MR	
<b>TOTAL OF SUBHEAD</b>								<b>0.00</b>
<b>INTERNAL DRAINAGE</b>								
87	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.							
a	101 mm inlet and 75 mm outlet -cast iron S&S as per IS 3989.		2.00	Each	1196.00		17.60.2.1	
<b>TOTAL OF SUBHEAD</b>								<b>0.00</b>
<b>EXTERNAL DRAINAGE</b>								
88	Providing & Fixing in position pre-cast RCC manhole cover and frame of required shape and approved quality.							
a)	LD-2.5 Rectangular shape 600 x 450mm internal dimensions		2.00	each	1120.60		19.19.1.1	
89	Providing laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.							
a)	100 mm diameter		24.00	metre	280.60		19.1.1	
b)	150 mm diameter		24.00	metre	466.20		19.1.2	
c)	200 mm diameter		24.00	metre	682.60		19.1.3	

90	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around S.W. pipes including bed concrete as per standard design.					
a)	100mm diameter S.W. pipe	24.00	metre	192.1		19.3.1
b)	150mm diameter S.W. pipe	24.00	metre	311.4		19.3.2
c)	200mm diameter S.W. pipe	24.00	metre	366		19.3.3
91	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement as per standard design.					
a)	Inside size 90 x 80 cm and 60 cm deep including C.I. cover with frame (light duty) 455 x 610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg). With sewer bricks conforming to IS : 4885	2.00	Each	7948.1		19.7.1.2
92	Providing orange colour safety foot rest of minimum 6mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minium cross section as 23mm x 25mm and over all minium length 263mm and width as 165mm with minium 112mm space between protruded legs having 2mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail lenth on 138mm 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 (1cement :3 coarse sand :6 graded stone aggregate 20 mm nominal size ) complete as per design.	0.00	Each	310.9		19.16
93	Providing and fixing square mouth SW gully trap grade 'A' complete CI grating brick masonry chamber and water tight CI cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.7 kg. as per standard design.					
a)	150x100mm size P type With FPS bricks of class designation 75	4.00	Each	2006.9		19.4.3.2
94	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floor with cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) cement plaster on both side with cement mortar 1:3(1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drains etc. complete.for pipe 250mm to 300mm dia.	4.00	Each	431.7		19.21.2
95	Constructing brick masonry chamberfor underground C.I. inspection chamber and bends with 75 class designation brick in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light dty) 455 610 internal dimensions, total weight of cover with frame not less than 38 kg (weight of cover 23 kg and weight of frame 15kg) RCC top slab with 1:2:4 mix foundation concrete 1:5:10, inside plastering 12mm thick with cement moortat 1:3 finished smooth with a floating coat of neat cement on wall and bed concrete etc. complete as per standard dsign:					
a)	inside dimensioans 500 x 700mm and 45cm deep for pipe line with one or two inlets with FPS brick.	4.00	each	5107.4		19.30.2.1
96	construction of soak pit 2.5 m diametr 3.0 mtr deep with 45x45 cm dry honey comb shaft with bricks and S.W drain pipe 100 mm dia. 1.8 mtr. Long complete as per standard design	1.00	each	4117.3		19.33
97	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 :	80.00	mtr.	780		19.6.4
<b>TOTAL</b>						
98	<b>ADD 6% GST BEYOND 12%, MULTIPLYING FACTOR -0.0536</b>					
	Rs eighty seven lac twenty six thousand two hundred four only					A

material statement						
	Q	STONE	C SAND	CEMENT	L SAND	REIN.
PCC-26.46X1.50=39.69, M20	39.69	33.3396	16.6698	11.1132	286.27	
RCC-136.10X1.50=204.15, M20	204.15	171.486	85.743	57.162		
250 MM TH BRICKWORK-49.54X500=.55.57*.35-17.34	17.34		14.45	2.89		
125 MM TH B/WORK-33.31X55-1832.00.33.31*.18-5.94	6		5	1		
BRICK SOLLING -333.24X45=14996						
6 MM TH. PLASTER-379.24X0.18=68.26	68.26		54.608	13.652		
20 MM TH. PLASTER-1056.32X0.18-114.90	115%		29%	29%		
		204.83	176.76	86.10		
<b>ELECTRIFICATION WORK BASED ON SOR OF</b>						
99 Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with piano type switch, phenolic laminated sheet, suitable size PVC/G.I. box etc. as required.		32	POINT	1,146.00		1.3.3
100 Wiring for Light plug 2x1.5 sq.mm PVC insulated copper conductor single core cable in recessed PVC conduit along with 1 No. 1.5 sq mm PVC insulated copper conductor single core cable for loop earthing as required		400	MTR	201.00		1.7.1
101 Wiring for submain with 2x6 sq. mm + 1x6 sq mm earth wire FR PVC insulated copper conductor single core cable in recessed PVC conduit as required.		275	MTR	309.00		1.7.3
102 Wiring for submain with 4x10 sq. mm + 1x10 sq mm earth wire FR PVC insulated copper conductor single core cable in recessed PVC conduit as required.		150	Meter	557.00		1.7.5
103 Wiring for submain with 4x16 sq. mm + 1x16 sq mm earth wire FR PVC insulated copper conductor single core cable in recessed PVC conduit as required.		100	Meter	775.00		1.7.6
104 Supplying & Fixing following size ISI market PVC conduit with accessories in recess including cutting of wall and making good the same as required.						
(a) 20 mm dia		300	MTR	102.00		1.21.1
(b) 25 mm dia		150	MTR	120.00		1.21.2
105 Supplying and fixing metal box of following size in recess with suitable size of phenolic laminated sheet cover in the front including etc. as required.						
1 or 2 Module (75mm X 75mm)		20	each	234.00		1.27.1
3 module (100mm x 75mm)		20	each	266.00		1.27.2
4 module (125mm x 75mm)		20	each	283.00		1.27.3
6 Module (200mm X 75mm)		20	each	345.00		1.27.4
106 Supplying and fixing 3 pin 5/6 amps socket outlet & 6A switch piano type on existing switch box including connection etc. as required.						1.24
3pin 6Amp		20	each	112.00		1.24.4
15/16A		8	each	139.00		1.24.3
107 Supplying and fixing following rating 240/415 volts miniature circuit breaker suitable for inducting loads of following poles in the existing M.C.B DB complete, testing and commissioning etc.						2.12
6 A to 32'A, Single pole		24	each	237.00		2.12.1
6 A to 32 A, SP&N		12	each	606.00		2.12.2
108 Installation, testing and commissioning of prewired flourescent fitting of all types complete accessories and tubes etc. directly on ceiling / wall including connection with 1.5 sq. mm FR PVC insulated, copper conductor single core cable etc. as required		20	each	134.00		1.41
109 Supplying and fixing 4'X18 watl LED batten with minimum efficacy 100 lm/w in polycarbonate housing and complete with integrated electronic driver etc directly on wall/ ceiling including connections with 1.5 sq.mm FRLS pVC insulated copper conductor etc. as required		15	each	521.00		5.1

110	Supplying and fixing surface mounted following types LED downlighter with minimum efficacy 100 lm/w in pressure die-cast aluminium housing and integrated electronic driver etc directly on ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor cable etc as required					5.8
	9/10 watt	18	each	911.00		5.8.1
	15 W LED Lamp	18	each	1,608.00		5.8.2
112	Supplying and fixing recess/surface mounted 23/24 (1ft X 1ft) watt LED downlighter complete with integrated electronic driver & LED directly on ceiling/false ceiling including connection with 1.5 sq.mm FR PVC insulated copper conductor cable and earthing the body etc as required	8	each	2,049.00		5.7.6
113	Supplying and fixing recess mounted following types LED downlighter with minimum efficacy 100 lm/w in pressure die-cast aluminium housing and integrated electronic driver etc directly on ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor cable etc as required 9/10 watt	15	each	1,125.00		5.7.2
114	Supply and installation of regular/standard model A.C. ceiling fan of 1200 mm sweep with service value (CM/MM) minimum 4.00, Air delivery minimum 270 cum/min including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated copper conductor etc as required.	11.00	each	2,482.00		8
115	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the opening to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	2	Each	296.00		1.50.1
	300 mm sweep A.C> Exhaust fan / freashair fan of Model Ventil Air DS Havels make Equivalent	1	Each	6,982.00		8.17.3
116	Supplying and fixing recess mounted 36 watt LED flat panel (2' X 2') with minimum efficacy 100 lm/w which provides soft light and glare free symmetrical illumination suitable for armstrong/grid ceiling and integrated electronic driver etc directly on false ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor cable etc as required	10	Each	2,663.00		6
						<b>B</b>
				SAY		

  
**Retired Executive Engineer**  
**Building Construction Department**  
**Govt. of Bihar**

