

VAISHAL PATLIPUTRA DUGDH UTPADAK SAHKARI SANGH LTD

# PATNA DAIRY PROJECT

Feeder Balancing Dairy Complex, Phulwarisharif, Patna – 801505

Phone – 0612-2252553, 2252542, 2251622, Fax-2250325

Email :- vpmunin@gmail.com

PDP: PUR: 4425

Dated: 24.11.2018

## SHORT TENDER NOTICE

Sealed Tender is invited from experienced party for **Construction work of foundation for 60 KL SS milk Silo** at our Feeder Balancing Dairy, Phulwarisharif, Patna - 801505. The details B.O.Q. and diagram is attached herewith.

Interested parties may purchase tender document on cost of Rs. 5000/- (five thousand only) or download from website – patnadairy.org and may submit with DD of Rs. 5000/-. Tender document may be deposited with required EMD in sealed envelope latest by 08.12.2018 by 5.00 . Superscribing on the top the envelop **“Construction of foundation of 60 KL Silo”**.



Incharge(MM)

Encl: As above - B.O.Q. & Diagram with tender document.

Note: All the legal document i.e ID Proof, Address proof and GST papers, etc (Xerox is to be enclosed)

CC: Notrice Board, FBD, CFF, HCC  
Patnadairy.org

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# TENDER DOCUMENT FOR CIVIL CONSTRUCTION

WORK OF 60 000 LITERS SILO FOUNDATION AS PER  
GIVEN DESIGN, DRAWING, SPECIFICATION & BOQ

AT VPMU, PATNA

Prepared by:-

Vaishal Patliputra Dugdh Utpadk Sahkari Sangh Ltd  
Patna dairy Project,  
Feeder Balancing Dairy Complex, Phulwarisharif  
Patna 801505

Cost of tender Rs 5000.00  
(Rs five Thousand only)

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**Part-I (Tech. & Commercial.)**

**TENDER PROFORMA**

Sl no	Description	
01	Name &full address of the Tenderer	
	Correspondence address	
	Permanent Address with Phone & Mobile no	
02	Name of the work for which tender submitted:-	
03	Tender Notice no. with due date:-	
04	Time of completion'	
04	Validity of the Tender: (It should be till finalization of tender)	
05	Amount of Earnest Money deposited in shape of Bank draft,(Issued from Nationalised Bank), 5 years NSC, 5 years T.D	
06	Up to date Character certificate granted by D.M./ S.P	Yes/ No
07	Up to date labour licence certificate ( Up to date renewal validity	Yes / No
08	Up to date GST registration certificate ( Up to date renewal validity )	Yes / No
09	Valid registration no with date & validity period	Yes / no
10	Experience certificate & performance report issued by the rank of an officer of Executive Engineer / Super tending Engineer / Equivalent level ( Mention registration no & date who are registered with COMFED / VPMU , Patna	Yes / No
11	List of Tools and plants, if any shall be submitted along with Technical and Commercial Part- I As required in work. )	Yes/No.
12	Evidence of financial soundness	Yes / no
13	Copy of power of attorney to sign the tender document	Yes / no

**Signature of Bidder with seal**

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**PART – II**

**GENERAL CONDITIONS OF CONTRACT**

- 1) All relevant ISI, PWD and Irrigation specifications will be allowed during course of work.
- 2) The contractors will be responsible for providing medical facilities, accommodation, drinking water and other amenities to the worker employed by them at the site as per requirement of the labour at their own cost.
- 3) The quantities of work given in the bill of quantities may increase or decrease in quantities or elimination of items in BOQ as tendered may be done depending upon the site condition and site requirement.
- 4) The Contractor will have to maintain at site a bound inspection book. Any extra item ordered by the Engineer-in-charge / site in charge and the day to day instruction regarding the work shall be entered in that book.
- 5) No claim for idle labour under any circumstances will be entertained by the department.
- 6) The Contractor or his authorized agent shall always be present at site while the work is in progress and at the time of measurement. Payment will be made in running account system for continuous nature of work.
- 7) The bill will be submitted by the Contractor once in a month for substantial quantity of work done. The Vaishal Patliputra Milk Union,(VPMU) Patna dairy project ,Feeder Balancing dairy Complex is not bound to make monthly payment for works considerably lower than warranted by the proportionate time.
- 8) All existing labour laws and regulations shall have to be followed by the contractors. The Tenderers have to submit a photo copy of Labour license under contract labour (Regulation &abolition) Act 1970 along with the tender.
- 9) Conditional tender shall not be acceptable by VPMU, Patna dairy Project or it may be out rightly rejected by Managing Director , VPMU, Patna .
- 10) All prevalent labour rules including minimum wages act revised from time to time by Government of Bihar will be binding upon the contractor and all the relevant labour laws shall have to be observed by them strictly.
- 11) The contractor will have to maintain necessary records regarding payment of minimum wages of the labourers and exhibit before the officials of labour department and Company as and when so required by them.
- 12) In case of any dispute between contractor & Patna dairy project / site In charge ,, the decision of the Managing Director, VPMU , Patna will be final and binding.
- 13) The work will be carried out in protected area. Hence all the rules and regulation of the department which are enforced from time to time shall have to be followed.
- 14) Before submission of the tender, the tenderers shall acquaint themselves with the site conditions so that they may get an idea of the working conditions and incorporate all exigencies and cost effect in the quoted rates.
- 15) The contractor will have to co-ordinate their work with other agencies working in the area and no claim for delay in work due to idle labour on any account will be entertained. Tenderer must deposit the required Earnest Money as mentioned in the tender notice in

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the shape of Bank draft of any Nationalised Bank and drawn in the favour of Vaishal Patliputra Dugdh Utpadak Sahkari Sangh Ltd. & payable at Patna, 5 yrs. NSC or 5 yrs. term deposit duly pledged in favour of Vaishal Patliputra Dugdh Utpadak Sahkari Sangh Ltd.

No adjustment of pending dues lying with the VPMU, Patna dairy Project any shape will be made towards earnest money. Earnest Money is not acceptable by Cheque. Tender without the requisite Earnest Money will not be considered valid and hence it may be rejected.

- 16) GST registration certificate , PAN / TAN certificate , Experience Certificates for similar nature of works done previously etc must accompany with the tender otherwise the tender shall be liable for rejection.
- 17) Bank Certificate or Statement submitted by the Tenderers in support of their financial soundness should not more than six months old before submission of tender.
- 18) The competent authority reserves the right to distribute the work to one or more than one tenderer or reject any or all the tender without assigning any reasons thereof.
- 19) Permanent address for correspondence along with mobile no. should be furnished in tender Documents.
- 20) The Rates may be quoted in percentage above, below or estimated cost both in words and in figures.
- 21) The contract shall be eventually drawn on F2 Form. General and Special Conditions of contract shall be read with the terms and conditions laid down in F2 Form, but for anything mentioned to the contrary in F2 Form, provision laid down in General Condition so contract/special conditions of contract shall prevail.
- 22) Tenderers should satisfy that the statements submitted / uploaded along with the tender documents are correct and complete in every respect. Any inaccuracy overwriting detected later on shall be liable to be proceeded against him.
- 23) **FORCE MAJEURE:-**
  - (i) If during the continuance of the contract either of the parties or both are prevented from fulfilling the obligation under the contract due to force measure such as fire, act of natural war, Military operation or such other circumstances beyond the control of the party, the date of fulfilment of their obligations shall be extended in proportion to the time during which such circumstances prevail.
  - (ii) The party affected by the force majeure detailed above shall immediately notify in writing the other party, in the beginning of such circumstances as also the cessation thereof.
  - (iii) In case of force majeure as detailed above the parties shall immediately meet for consultation and shall work out the measures to be taken.
- 24) In super session of the clause in F-2 contract in respect of arbitration it will be the jurisdiction of M.D. Vaishal Patliputra Milk Union Ltd. , Patna to decide any differences / dispute / claims for and against by the contractor arising out of this contract.
- 25) Monthly progress report of the work will be submitted by the Contractor to the Engineer In charge for the works being executed.
- 26) Tender may be rejected if the rate quoted in price part is below 10% of the estimated rate.

Signature of the bidder with seal

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**SPECIAL CONDITIONS OF CONTRACT**

- 1) **SECURITY MONEY** :-The contractor shall have to deposit 10% of the contract value as security Deposit, 5% being the initial security, which shall have to be furnished in shape of Demand Draft in favour of *Vaishal Patliputra Dugdh Utpadak Sahkari Sangh Ltd* , Payable at Patna ,5 yrs. NSC/ 5 Yrs. T.D(duly pledged in favour of The *Vaishal Patliputra Dugdh Utpadak Sahkari Sangh Ltd*, at the time of execution of agreement within indicated time in letter of intent / Letter of Acceptance (LoA) or work order. In case of successful bidder the amount of earnest Money @ 2% to be / being deposited at the time of tender will be adjusted toward 5% Security deposit. The balance 5% shall be recovered from the running account (RA ) bills.
- 2) **Idle charges**:- No charges for idle men, machine, plant and equipment will be allowed to the agency for some reason or the other beyond the control of the department.
- 3) **Taxes**:- The rates should be quoted including all taxes on all commodities. Sales Tax as levied by Govt. of Bihar shall be paid by the contractor which will be reimbursed after assessment by Sales Tax department .
- 4) **Maintenance period and Refund of Security**: - Maintenance period will be counted from the date of completion of the work. The period will be One Year, thereafter Security will be returned after getting a certificate from the Engineer-in-charge that the work has been done as per drawing and specification and there is no due with the contractor in any shape.
- 5) **Extra work** :-Any extra work done by the contractor will be paid as per schedule of rates prevalent in that area or if no such rates exists in the schedule, the rates to be mutually agreed upon before taking up the extra works as per analysis by the Engineer-in-charge .Before taking the work of extra item, it must be got approved by the competent authority to avoid subsequent dispute and delay in decision.
- 6) **Date of commencement**: - The date of commencement of work will be considered from the date of issue of work order given to the contractor in writing.
- 7) **Variation in quantities of work**: - The quantity indicated in the bill of quantity for item of work may increase or decrease/ elimination of item of work.
- 8) **Liquidated Damage**: - For any delay in completion of work liquidated damages will be charged as per relevant clause of F2 Agreement.
- 9) **Monthly payment**: - The contractor shall submit monthly bill for work done to the E/I, and the department will make monthly payment to the contractor after checking of bill provided the fund is available, No interests will be paid in case of delay in any payments but delay in payment shall entitle the contractor for consequential extension of time.
- 10) In case, if there would be same rate for more "than one lowest tenderers, in that case the work would be awarded to one of the lowest tenderer amongst them on the basis of "Draw of Lots" only.
- 11) **Subletting** :- The contractor is not allowed to sublet the work without written permission of the competent authority. Violation of this would invite cancellation of the Agreement and forfeiture of Earnest Money and Security deposit besides other penal actions as deemed fit.
- 12) **Eligibility Criteria**:-
  - 12.1 Experience of having successfully completed similar works during last 5 (Five) years ending last day of month previous to the one in which N.I.T's are invited should be either of the following:-
    - (a) Three similar completed works costing not less than the amount equal to 33 (Thirty Three) % of the estimated cost,

Or

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**(b) Two similar completed works costing not less than amount equal to 50% (fifty) of the estimated cost,**

**Or**

**(c) One similar completed work costing not less than the amount equal to 80% of the estimated cost.**

**Certificate of payment / completion certificate of works from competent authority ( Not less than the Executive Engineer / Super tending engineer / equivalent level must be uploaded in proof of competition.**

- 12.2 Annual financial Turnover of last 05 (Five) years (At least Annual Turnover of 03 (three) years should be audited by chartered Accountant) shall be uploaded.**
- 12.3 Registration certificate of contractor having registration with central Government/any State government/ any PSU/ COMFED must be uploaded.**
- 12.4 Copy of PAN, GST registration certificate, & labor license must be uploaded.**
- 12.5 Scanned copy of Affidavit regarding Details engineering set up of bidder required for execution of the work must be uploaded.**
- 12.6 Scanned copy of list through Affidavit regarding tools & plant like Automatic batching machine, with all accessories, Concrete mixture with weighing facility, steel centering& shuttering mininum2000 SFT ,vibrator ad any other required for execution of the work must be uploaded.**
- 12.7 Scanned copy of list through Affidavit regarding Quality control Lab equipments must be uploaded.**
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[Form No. F – 2]

**PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS**

**General Rule and Direction for the guidance of Contractors.**

All Works proposed for execution by contract will be notified in a form of Notice Inviting tender ( NIT ) duly signed by Managing director VPMU to be published in news paper as well as displayed on the notice Board in the office of VPMU , Patna dairy Project and on eproc.bihar.gov.in. The notice in detail will also be uploaded on the website which will state the works / item of works to be carried out with approximate quantities thereof as well as the date for submitting and opening tenders , amount of earnest money to be deposited and the amount of the security deposit to be deposited by the successful tenderer and the percentage if any to be deducted from bills, copies of the specifications, designs and any other documents required in connection with the submission of tender signed for the purpose of identification by the Engineer In charge.

2. In the event of the tender being submitted by a firm, it must be signed separately by each member there of or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power-authorizing him to do so.
3. Receipt for payments made on account of work when executed by a firm must also be signed by the several partners, except where the contractors are described in their tender as a firm in which case the receipt must be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipt for the firm.
4. The memorandum of work tendered or and the memorandum of materials to be supplied by the VPMU and their issue rates shall be filled in and completed in the Office of the Engineer In charge before the tender form is issued. If a form is issued to a intending tender without having been so filled in and completed, he shall request the office to have this done before he completed and delivers his tender. ( Not Applicable).
5. The amount of earnest money to be deposited will be: -

If the amount of the estimate does not exceed Rs. 2,000	.....	Rs/
If the amount of the estimate exceeds Rs. 2,000 but does not exceed Rs. 5,000	.....	50
If the amount of the estimate exceeds Rs. 5,000 but does not exceed Rs. 10,000	.....	100
For each additional Rs. 5,000 or portion of Rs. 5,000 additional earnest money	.....	200
	.....	100
6. Any Person who submits a tender shall fill up the usual printed form stating there at what rate he is willing to undertake each item of the work incomplete tender an tenders which propose any alteration in the work specified in the said form of invitation tenders, or which contain any other conditions of any sort, or omit to note the time within which the work can be finished, or which are not accompanied by the treasury challan for the required earnest money will be liable to rejection. No single tender shall include more than one work, but contractors who will to tender for two or more works shall submit a separate tender for each Tender shall bear the name of the work to which they refer written outside the envelope. Cash deposits for earnest money here in before mentioned shall be made in Government Treasuries and the challan there of should be enclosed with the tender. . ( Not Applicable).
7. The Engineer or his duly authorized assistant will open the tender in the presence of any intending contractors who may be present at the time and will enter the amounts of the several tenders comparative statements in a suitable form. In the event of a tender being rejected the challan for the earnest money forwarded therewith shall there upon returned to the tenderer with a pay order for the amount of the earnest money (Not Applicable).
8. The competent Authority shall have the right of rejecting all or any of the tenders.
9. In the event of a tender being selected for acceptance the Managing Director , VPMU inform the tenderer or the selected tender who shall thereupon sign copies of the



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- specification & other documents mentioned in rules 1 and 4 for the purpose of identification and for his acceptance with the tender. The tender of the selected tender shall also deposit the required amount of the security money within the prescribed time. If the tenderer fails to deposit the required amount of the security money within the prescribed time, the competent Authority may reject the tender. Such tenderer shall thereupon sign forth-with copies of the specification and other documents mentioned in rules 1 and 4 and shall deposit the required amount of the security money within the prescribed time. The tender with the specification and other documents signed by the tenderer will then be forwarded for acceptance and the security money deposited shall be refundable to the tenderer.
- .10. When a tender is selected for acceptance the tenderer shall deposit the required amount of the security money in required form may be enclosed as per clause 1 of Special Condition of Contract. No tender shall be finally accepted until the required amount of the security money has been deposited.
11. The amount of security money to be deposited by the tenderer whose tender is selected for acceptance shall be 10% to the estimated value of the work & towards this amount the earnest money already deposited by him shall be credited. At least half of this security inclusive of the earnest money shall be deposited by the tenderer within such time as may be notified to him in writing by the Managing Director or officer opening tender, failing which the tender shall be liable to rejection. Any balance of the security money outstanding after completion of the contract with the tenderer may be made up by deductions of 5% of the amount of each payment to be made to him under clause 7 of the conditions of contract for work done under the contract.
- When a tender has been selected for acceptance & the required amount of the security money has been deposited the Engineer shall scrutinize all pages of the form of item, rate tender & contract for works to see that the form has been properly filled up and signed by the contractor & the signature witnessed. He shall then if he is competent, to accept the tender, sign the acceptance of the tender, of, if he is not so competent shall send the form for signature of the acceptance of the officer competent to accept it.
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**CONDITIONS OF CONTRACT**

Sl no of clauses	Subject	CONDITIONS OF CONTRACT
Clause 1	Compensation	All compensation or other sums payable by the contractors to VPMU under the terms of his contract may be deducted from, paid by the state of a sufficient part of his security deposit or from the interest arising therefore or from any sums which may be due or may become due to the contractor by VPMU on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall within ten days thereafter make good in cash of VPMU securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit of any part thereof.
Clause 2	The work should not be considered until such date as the Engineer In charge shall certify as the date on which the work is finished after necessary rectification of defects as pointed by the Engineer In-charge to his authorized agents or contractor to the Engineer's satisfaction.	The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the date on which the written order to commence work is given to the contractor. The work shall throughout the stipulated period of the contract be carried on with all due diligence (time being deemed to be the essence of the contract on the part of the contractor or) and the contractor shall pay as compensation an amount equal to ½ percent on the amount of the estimated cost of the whole work as shown by the tender for every day that the work remains uncompleted or unfinished after the proper date. And further to ensure good progress during the execution of the work the contractor shall be bound in all cases in which the time allowed for any work exceeds one month to complete one fourth of the whole of the work before one-fourth of the whole time allowed under the contract has elapsed one-half of the work before one-half of such time elapsed and three-fourth of the work, before three fourths of such time has elapsed in the event of the contractor failing to employ with this condition. I shall be liable to pay as compensation an amount equal to ½ percent on the said estimated cost of the whole work for every day that the due quantity of work remains incomplete provided always that the entire amount of compensation to be paid under the provisions the clause shall not exceed 10 percent of the estimated cost of the work as shown in the tender.
Clause 3	Action when personal security deposit forfeited	In any case which under any clause or clauses of or this contract the contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit in the hands of VPMU (where paid in one sum or deducted by installments) the Competent Authority/(Engineer In-charge) on behalf of VPMU shall have been powered to adopt any of the following courses, as he may deem best suited to the interest of VPMU To rescind the contract (of which rescind notice in writing to the contractor under the hand of the Managing Director , <u>VPMU</u> shall be conclusive evidence) and in which case the security deposit of the contractor shall start forfeited, and be absolutely at the disposal of <u>VPMU</u> . To employ labor paid by the VPMU and to supply materials to carry out the work, or any part of the work, debiting the construction with the cost of the labor and the price of the materials (of the amount of which cost and price certificate of the Engineer-in-charge shall be final and conclusive against the contractor), and crediting him with the value of the work done, in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract, the certificate of the Engineer In-charge as to the value of the work done shall be final and conclusive against the contractor.

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Sl no of clauses	Subject	CONDITIONS OF CONTRACT
		<p>To measure up the work of the contractor and to take such part of the work of the contractor as shall be unexecuted out of his hands, and to give it another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Engineer In-charge shall be final and conclusive) shall be borne and paid by the original contractor and made be deducted from any money due to him by under the contract or otherwise or from his security deposit or the proceeds of sale thereof, or a sufficient part thereof .</p> <p>d) In the event of any of the above courses being adopted by the Engineer In-charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagement, or made advances on account of or with a view to execution of the work or the performance of the contract. And in case the contract shall be rescinded under the provision aforesaid, contractor shall not be entitled to recover or be paid any sum for any work there-to-fore actually performed under this contract unless and until the Engineer In-charge shall have certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified</p>
Clause - 4	Contractor remains liable to pay compensation if action not taken under clause 2	<p>In any case in which any of the powers, conferred upon the Engineer In-charge by clause 3 thereof shall have become exercisable and the same shall not be exercised the non-exercise thereof shall not constitute a waiver of the conditions here and such power shall notwithstanding be exercisable in the event of any future case of default by the contractor for which by any clause hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected in the event of the Engineer In-charge putting in force the powers vested in him under the preceding clause he may, if so desires, take possession of all or any tools, plants, materials and store, in or upon the works of the site thereof or belonging to the contractor or procured by him and intended to be for the execution of the work or any part thereof of paying or allowing for the same in the contract at the account rates, or in case of these not being applicable at current market rates to be certified by the Engineer In-charge whose certificate thereof shall be final, otherwise the Engineer In-charge may notice in writing to the contractor or his clerk of the work, foreman or other authorized agent require him to remove such tools, plants, materials or stores from the premises (within a time to be specified in such notice) and in the event to the contractor falling to comply with any such requisition the Engineer In-charge may remove them at the contractor expense or sell them by auction or private sale on account of the contractor and at his risk in all respect, and the certificate of the Engineer In-charge as to the expense of any such removal and the amount of the proceeds and expense of any such sale be final and conclusive against the contractor.</p>
Clause - 5	Extension of time	<p>If the contractor shall desire any extension of the time for completion of the work, on the ground of his having been unavoidably hindered in its execution or on any other ground other than those mentioned in clause 12(a) he shall apply in writing to Engineer In-charge within 40 days from the date of starting of the hindrance on account of which he desires such extension as aforesaid and the Engineer In-charge shall, if in his opinion (which shall be final) reasonable grounds be shown there of authorized such extension of time, if any, as may in his opinion be necessary or proper. The Engineer In-charge shall at the same time inform the contractor whether he claims compensation for the delay</p>

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SI no of clauses	Subject	CONDITIONS OF CONTRACT
Clause -6	Final certificate	<p>On completion of the work, the contractor shall be furnished with a certificate by the Engineer In Charge (hearing after called the Engineer-in-charge) of such completion, but no such certificate be given, nor shall the work be considered to be complete under the contractor no such certificate be given, nor shall the work be considered to be complete until the contractor shall have removed from the area of the premises (to be distinctly marked by the Engineer In Charge in the site plan) on which the work shall be executed all scaffolding surplus materials and rubbish, and cleaned of the dirt from all wood-work, doors, windows, walls, floors or other parts of any building, in upon or about which the work is to be executed, or of which he may have had possession for the purpose of the execution thereof, not until the work shall have been measured by the officer of VPMU in accordance with rules of COMFED / VPMU whose measurements shall be binding and conclusive against the contractor. If the contractor shall fall to comply with the requirements of this clause as to removal of scaffolding, a surplus materials and rubbish and cleaning off dirt on or before the date fixed for completion the work, the Engineer-in-charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish and dispose of the same as the thinks fit and clean of such dirt as aforesaid and the contractor shall forth with pay amount of all expense so incurred, and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid, expect for any sum actually realized by the sale there of.</p>
Clause - 7	Certificate to-be regarded as advance and Bill to be submitted monthly	<p>A bill shall be submitted by the contractor each month or before the date fixed by the Engineer-in-charge for all work executed in the previous months and the Engineer-in-charge or his subordinate shall take the requisite measurement for the purpose of having the same verified and the claim, as for as admissible, adjusted, if possible, before the expiry of the days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Engineer-in-charge or his subordinate shall measure up the said work in the presence of the contractor whose counter signature on the measurement list will be sufficient warrant, and the Engineer-in-charge or his subordinate shall prepare at bill from such list which shall be binding to the contractor in all respects.</p> <p>Provided that, if any balance of the 10% security is outstanding from each such payment shall be deducted so much not exceeding 5% as may be necessary to make up the balance of the security. All such intermediate payment to the contractor shall be regarded as payments by way of advance against the final payments only and not as payments for work actually done and completed and shall not preside the reputing of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or recreated be considered as an admission of due performance of the contractor, or any part thereof in any respect, or the actual of any claim nor shall it conclude, determine or affect in any way the powers of the Engineer-in-charge under these conditions or any of them as so the final settlement or adjustment of the accounts or in any other way vary or affect the contract.</p>

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Clause- 8	Bills to be prepared	The final bill shall be prepared by the officer / Engineer of the VPMU in accordance with the rules of the COMFED / VPMU in the presence of the contractor within the month of the date fixed for completion of the work.
Clause 9	Materials to be supplied by VPMU	If the specification or estimate of the work provides for the use of any special description of material to be supplied from the Engineer-in-charge's stores or if it is required that the contractor shall use certain stores to be provided by the Engineer-in-charge under the conditions of this contract or (such materials and stores, and the prices to be charged therefore as herein after mentioned being so far as practicable for the convenience of the contractor, but not so as in any way to control the meaning or effect of this contract are specified or memorandum here to annexed) the contractor shall be supplied with such materials and stores noted in the annexed such schedule require from time to time to be used by him for the purposes of the contract, only and the value of the full quantity of materials and stores so supplied at the rates specified in the said schedule may be set off or deducted from any sums then due or thereafter to become due to the contractor under the contract or otherwise, or against or from the security deposit, or the proceed of sale thereof, if the same is held in VPMU security the same or sufficient portion thereof in this case sold for the purpose. All materials supplied to the contractor shall remain the absolute property of VPMU and shall not on any accounts be removed from the site of the work and shall at all times be open to inspection by the Engineer-in-charge. Any such materials unused and in correctly in good condition at the time of the completion or determination of the contract shall be returned to the Engineer-in-charge's store, at the prevailing market rate or at the issue rate whichever is less
Clause 10	Work—to--be executed accordance with specification drawing other etc	The contractor shall execute the whole and every part of the work in the most substantial and workman like manner, and both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also confirm exactly, fully and faithfully to designs, drawings, and instructions in writing relating to the work signed by the Engineer-in-charge and lodged in his office and to which the contractor shall be entitle to access at such office, for the purpose of inspection during office hours, and the contractors shall, if he so requires be entitled at his own expenses to make or cause to be made copies of the specification, and of all such designs, drawings and instructions as aforesaid.
Clause 11	Alteration in specifications and esign/drawing. Do not invalidate contract Time in consequence of Alteration Rate of work no in estimate or Schedule of rates of the district.	Managing director shall have power to make any alteration & additions to the original specifications ,drawings and instructions being communicated by Engineer-in-charge that may appear to him to be necessary or advisable during the progress of the work. The contractor shall be bound to carry out the work in accordance with any instructions which may be given to him in writing signed by MD , VPMU ,the Engineer-in-charge, and such alteration shall not invalidate the contract and any additional work, which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do for completion of the work shall be extended in the proportion that the additional work. The time for completion of the work shall be extended in the proportion that the additional work bears to the original contract work and the certificate of the Engineer-in-charge shall be conclusive as to such proportion and to the additional work includes any class of work, for which no rates is specified in this contractor then such class of work shall be carried out at the rates entered in the sanctioned scheduled of rates of the

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		<p>locality during the period when the work is being carried on and if such last mentioned class of work is not entered in the schedule of rates of the district then the contractor shall within seven days of the date of his receipt of the order to carry out the work inform the Engineer-in-charge the rates which in his intention to charge for such class of work and if the Engineer-in-charge does not agree to this rate he shall be noticed in writing be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider advisable provided always that if the contract shall commence work or in our expenditure in regard thereof before the rate shall have been determine as lastly herein before mentioned then and in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rates as aforesaid according to such rate or rates as shall be fixed by the Engineer charge shall be conclusive as to such proportion and to the additional work includes any class of work, for which no rates is specified in this contractor then such class of work shall be carried out at the rates entered in the sanctioned scheduled of rates of the locality during the period when the work is being carried on and if such last mentioned class of work is not entered in the schedule of rates of the district then the contractor shall within seven days of the date of his receipt of the order to carry out the work inform the Engineer-in-charge the rates which in his intention to charge for such class of work and if the Engineer-in-charge does not agree to this rate he shall be noticed in writing be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider advisable provided always that if the contract shall commence work or in our expenditure in regard thereof before the rate shall have been determine as lastly herein before mentioned then and in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rates as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge in the event of a dispute the decision of the Managing Director will be final.</p> <p>Provided always that the contractor shall not be entitled to any payment for any additional work done unless he has received an order in writing from the Engineer-in-charge for the additional work The contractor shall be bound to submit his claim for any additional work done during any month on or before the 15th days of following month accompanied by a copy of the order in writing of the Engineer-in-charge for the additional work and the contractor shall not be entitled to any payment in respect of such additional work if he submits his claim within date as aforesaid period.</p>
Clause -12	Compensation for alteration in or restriction of work to be carried out.	If at any time after the commencement of the work the COMFED/ VPMU shall for any reason whatsoever not require the whole thereof as specified in the tender to be carried out, the Engineer-in-charge shall give notice in writing of the fact to the contractor who shall have no claim to any payment of compensation whatsoever on account of any profit or advantage, which he might have derived from execution to the work in full, but which he did not derive in consequence of the full amount of the work not having been carried out neither shall he have any claim for compensation by reason of any alternation having been made in the original specification, drawing, designs and instruction which shall involve any installment of the works as originally contemplated clause 12 (a). As enclosed in G. O. 1929 dated 11.9.56.

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Clause - 12-a	Compensation for alteration in or restriction of work to be carried out.	<p>(a) The contractor shall not be entitled to claim any compensation for loss suffered by him on account of delay by or on behalf of VPMU in the supply of materials as stores which the VPMU may have undertaken to supply where such failure is due to :-</p> <p>(i) Natural calamities, (ii) act of enemies, (iii) transport and procurement difficulties or (iv) circumstances beyond the control of the State Government.</p> <p>In case of such failure in delay in the supply of materials or stores on an application by the contractor within 30 days from the date of such failure or delay such extension of time shall be granted to the contractor for completion of the work as shall appears to the Engineer to be reasonable in accordance with the circumstances of the case. The decision of the Managing Director or the Competent Authority as to the extension of time shall be accepted as finally by the contractor.</p>
Clause - 13	Action and compensation payable in case of work	<p>If it shall appear to the Engineer-in-charge or his subordinate in-charge of the work that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of any inferior description, or by any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for at otherwise not in accordance with the contract, the contractor shall on demand in writing form the Engineer-in-charge specifying the in advertantly passed certified and paid for, forthwith rectify or remove and re-contract the work so specified in whole or in part as the case may remove the materials or articles so specified and provided other proper and suitable materials or articles at his own proper charge and cost, and in the event of failing to do so within period to be specified by the Engineer-in-charge in his demand aforesaid, the contractor shall be liable to pay compensation at the rate of one percent, on the amount of the estimate for every day not exceeding ten days while his failure to do so, shall continue and in the case of any such failure the Engineer-in-charge may certify or remove and re-execute the work or remove and replace with others, the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.</p>
Clause - 14	Work to be taken to inspection	<p>All work under in course of execution or executed in presence of the contractor shall at all times be open to the inspection and supervision of the Engineer-in-charge and his subordinates and the contractor shall at all times during the usual working hours and at all other time at which reasonable notice of the intimation of the Engineer-in-charge or his subordinate to visit the works shall have been given to the contractor, either himself to be present to receive orders and instruction, or have a responsible agent duly credited in writing present for that purpose orders given to the contractors agent all shall be considered to have the same force as if they had been given to the contract himself.</p>

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Clause 15	Contractor or responsible Agents to be present	The contractor shall give not less than five days notice in writing to the Engineer-in-charge or his subordinate-in-charge of the work before covering up or otherwise placing beyond the reach of measurement of any work in order that the same may be measured and correct dimensions there of the taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up or place beyond the reach of measurement of any work without the consent in writing of the Engineer-in-charge or his subordinate-in-charge of the work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained, the same shall be uncovered at the contractors expenses or in default there on payment or allowance shall made for such work on material with which the same was effected.
Clause -16	Contractor liable for damage done and for imperfection a months and after certificate	If the contractor or his work-people, or servants shall break, deface injury or destroy any part of a building in which they may be working or any building, road, road curves, fence enclosure, water pipes, cables, drains, electric or telephone posts or wires, trees, grass or grassland or cultivated ground contiguous on which the work or any part of it is being executed or if any damage shall happen to the work, while in progress from any cause whatsoever or any imperfection become apparent in if within twelve months after a certificate final or other of its completion shall have been given by the Engineer-in-charge. The contractor shall make the same good at his own expense, or in default, the Engineer-in-charge may cause the same to be made good by other works and deduct the expense of which time thereafter may become due to the contractor, or from his security deposit, or the proceed of sale thereof, or a sufficient portion thereof the security deposit of the contractor shall not be refunded before the expiry of twelve month after the issue of the certificate of completion.
Clause- 17	Contractor liable for damage done and for imperfection a months and after certificate	The contractor shall supply at his own cost all materials (except such special materials) if any as may in accordance with the contract supplied from the Engineer-in-charge's stores). Plants, tools, application, implements, ladders, cordage jackal scaffolding and temporary works requisites or proper for the proper execution of the work whether original, altered or substituted and whether include in the specification or other documents forming part of the contract or referred to in these conditions or not or which may be necessary for purpose of satisfying or complying with the requirement of the Engineer-in-charge as to any matter as to which under these conditions he is entitled to be satisfied which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works, and counting, weighing and assisting in the measurement or examination at any time



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		<p>and from time to time of the work or materials failing his so doing the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The contractor shall also provide all necessary fencing and lights required to protect the public from accident, and shall be bound to bear to expenses of defense of every suit action or other proceeding at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to any such person or which may with the consent of the contractor be paid to compromise any claim by any such person</p>
Clause -18	Work not to be subject	<p>No female labor shall be employed within the limits of cantonment. The contractor shall not employ for the purpose of his contract any person who is below the age of twelve years and shall pay to each labor for the work done by such laborer wages not less than the wages paid by similar work in the neighborhood.</p> <p>The Engineer In-charge shall have the right to enquire into the case and decide any complaint alleging that the wages paid by the contractor to any lab our for the work done by such lab our is less than the wages paid for similar work in the neighborhood.</p> <p>The officer in-charge of the work shall have the right to decide whether any laborer employed by contractor is below the age of twelve years and to refuse to allow any laborer whom he decided to be below the age of twelve years to be employed by the contractor.</p>
Clause -19	Contract may be rescinded and security deposit forfeited for subletting bribes or if contractor become insolvent	<p>The contract shall not be assigned or sublet without the written approval of the Engineer In-charge. And if the contractor shall assign or sublet subject his contract, or attempt so to do, or become insolvent, proceedings to make any composition with his creditors or attempt so to do, or if any bride, gratuity, gift loan, requisite, reward or advantage pecuniary of otherwise, shall either directly or indirectly be given promised, or offered by the contractor, or any of his servant or agents to any public officer, or person in the employment of VPMU n any way relating to his officers or employment or if any such officer or person shall become in any way directly or indirectly interested in the contract the Engineer In-charge may there upon by notice in writing rescind the contract. The security deposit of the contractor shall there upon stand forfeited and be absolutely at the disposal of VPMU and the same consequence shall ensure as if the contract had been rescinded under clause 3 here of, in addition the contractor shall not entitled to recover or be paid to any work therefore actually performed under contract.</p>
Clause -20	Such payable by--way--of compensation--to be--considered reasonable compensation without reference to actual loss	<p>All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of the VPMU without reference to the actual loss or damages sustained and there of not any damage shall have been sustained.</p>

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SI no of clauses	Subject	CONDITIONS OF CONTRACT
Clause -21	Changes--in constitution- of firm	In the case of a sender by partners, any change in the constitution of the firm shall be forthwith notified by the contractor to the Engineer-in-charge of this information In case of failure to notify the change in the constitution within fifteen days the Engineer-in-charge may give notice in writing to rescind the contract and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of VPMU and the same consequences shall ensure as if the contract has been rescinded under clause 3 hereof, and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contractor
Clause -22	Works to be under direction-- of Competent Authority	All work to be executed under the contract shall be executed under the direction and subject to the approval in all respect of Competent Authority of the circle for the time being who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.
Clause-23	Lump sum in estimate	In case any dispute or difference shall arise between the parties or either of thereupon any question relating to the meaning of the specifications, designs, drawing and instructions here before mentioned or as to the quality of workmanship or materials used on the work or as to the construction of any of the conditions or any clause or thing there in contained or as to any question, claim, rights of the parties, or any matter, or things whatsoever in any way arising out of or relating to the contract designs, drawings specifications, estimates, instruction order of these conditions or otherwise concerning the work or the execution, or failure to execute the same whether arising during the progress of the work of alter the completion or atonement thereof or as the breach of those contract then entire party shall forthwith give to the order notice of, such dispute or difference and such dispute or difference shall be referred to the Managing Director of VPMU and his decision there on shall be final, conclusive and binding on all the parties
Clause -24		When the estimate on which a tender is made includes lump sum in respect of the contract shall be entitled to payment in respect of the items or work involved of the work in question, the same rates as are payable under this contract such terms, for if the part of the work in question is not in the opinion of the Engineer-in-charge, capable of measurement, the Engineer-in-charge, may at his direction pay the lump sum amounts entered in the estimate, and the certificate in writing of the Engineer-in-charge shall be final and conclusive against the contractor with regard to any sum pay able to him under the provision of this clause.
Clause -25	Action where no specification	In the case of any class of work for which there is no such specification as is mentioned in rule 1, such work shall be carried out in accordance with the circle specification and in the event of there being no circle specification, then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-charge.

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SI no of clauses	Subject	CONDITIONS OF CONTRACT
Clause -26	Definition of works	The expression "work" or "works" where used in these conditions shall unless there be something either in the subject or context repugnant to such construction be constructed and taken to mean the work by or virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
Clause 27		The terms and conditions of the agreement have been read/explained to me and I certify that I clearly understand them

**Seal & Signature of bidder**

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Agreement No. F2 :

Date-

Name of work

Name & address of Agency

:

**AGREEMENT FORM**

All the General Rules and Directions for the guidance of contractor as well as the conditions of contract will be as per P.W.D. contract Form F-2 duly modified for the COMFED / V.P.D.U.S.S. Limited, Phulwari sharif, Patna

Signature of the Contractor

AGM (Engg.)

I/We hereby for the execution for the V.P.D.U.S.S. Limited, Phulwari sharif, Patna of the work /s specified in the agreement at the rate specified therein within a period of Five Months from the date of written order to commence and in accordance in all respects with the specification designs, Drawings and other documents referred in rule 1 of P.W.D. Form-2 duly modified for the Bihar state Cooperative Milk Federation Ltd (COMFED) and subject to the conditions of contract given in the Form-2 and with such materials as are provided for by and in all other respects in accordance with such conditions so far as applicable. All the rules and conditions of contract of P.W.D. Form F-2 duly modified for the COMFED / V.P.D.U.S.S. Limited, Phulwarisharif, Patna will be applicable at the time of agreement and execution of work.

**MEMORANDUM**

- A) If several sub works are included they Should be Detailed as is.
- B) The deposit will be 5 % of the estimated cost of the list .
- C) The percentage deduction credited to contractor's security
- A) Name of Work :-
- B) Estimated cost :-
- C) Earnest Money:
- D) Initial Security deposits:-  
(Including Earnest Money) to be Deposited before commencement of work
- E) Percentage to be:-  
Deducted from bills.
- F) Time required for the work to be completed from the date of written Order to commence :-
- G) Date of written order to Commence:-
- H) Total number of item of Work tendered for :-

Signature of The Contractor

AGM ( Engg)

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Should this tender be accepted I/We hereby agree to by and fulfill and abide the terms and provisions of the said conditions of contract as per P.W.D. Form F-2 duly modified for the COMFED / V.P.D.U.S.S. Limited, Phulwarisharif, Patna so far as applicable or in defaults thereof to forfeit and pay to V.P.D.U.S.S. Limited., Phulwari sharif, Patna the some of money mentioned to the said conditions.

**Date**

**Date of**

**Signature of contractor  
Before commission of Tender**

**Witness:-**

**Address:-**

**Occupation:-**

**The above tender is hereby accepted by me on behalf of the V.P.D.U.S.S. Limited,  
Phulwarisharif, Patna**

**Date the**

**Date:-**

**2018**

**Signature of the Officer Accepting the Tender.**

**Acceptance Communicated on .....**

**Signature of the party taking the Tender.**

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## BILL OF QUANTITY

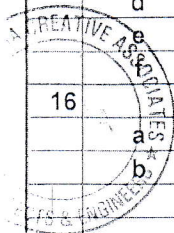
**PROJECT: CONSTRUCTION OF CIVIL FOUNDATION WORKS FOR MILK SILO OF 60KL CAPACITY IN PATNA DAIRY PROJECT, PHULWARISHARIF, PATNA.**

SL.	BSR-18	DESCRIPTION OF ITEM	UNIT	QUANTITY
<b>SECTION - I (FOUNDATION WORKS)</b>				
1	20.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :		
	20.3.2	400 mm dia piles	Mtr.	42.00
2	20.4.2	Extra over item No. 23.3 for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid). 400mm dia pile	Nos.	6.00
3	2.8.1	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)	Cum.	18.87
4	2.26	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	Cum.	16.00
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	Cum.	3.15
6	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	Sqm.	48.88
7	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.		
	4.1.5	1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	Cum.	4.87
<b>SECTION - II ( R.C.C WORKS)</b>				
8	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.		

SL.	BSR-18	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT
8a	5.9.1	Foundations, footings, bases of columns etc. for mass concrete.	Sqm.	89.39		
8b	5.9.3	Suspended floors, roots, landings, balconies and access platform.	Sqm.	17.75		
8c	5.9.5	Lintels, beams, plinth bams, griders, bressumers and contilevers.	Sqm.	40.90		
8d	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm.	12.60		
8e	5.9.14	Extra for shuttering in circular work (20% of respective centring and shuttering items)	Sqm.	89.39		
8f	5.9.16.1	Edges of slabs and breaks in floors and walls- Under 20 cms wide	Mtr.	13.45		
9	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
9a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia.	Kg.	374.75		
9b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	Kg.	360.20		
9c	5.22.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia.	Kg.	290.91		
9d	5.22.7D	Thermo-Mechanically Treated bars TMT Fe-500-16mm dia.	Kg.	331.80		
9e	5.22.7E	Thermo-Mechanically Treated bars TMT Fe-500-20mm dia.	Kg.	187.64		
10	5.33A	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				
10a	5.33A.1	All work upto plinth level	Cum.	1.88		
10b	5.33A.2	All works above plinth level upto floor V level				
	5.33A.2.	Walls' columns, pillars, posts and struts	Cum.	1.08		
10c	5.33A.2.2	Beams, plinth beams, girders, bressumers, contilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc.	Cum.	8.32		
11	5.33B	Add or deduct for providing richer or leaner mixes respectively at all floor levels.				
11a	5.33B.1	Providing M-25 grade R.C.C. instead of M-20 grade R.C.C. cum 194.20	Cum.	2.96		
11b	5.33B.2	Providing M-30 grade R.C.C. instead of M-20 grade R.C.C.	Cum.	2.96		
		<b>SECTION - III (BRICK WORKS)</b>				
	6.1A	Brick work with bricks of class designation 100A in foundations and plinth in :				
	6.1.12/1	Cement mortar 1 : 4 (1 cement: 4 coarse sand)	Cum.	2.85		
		<b>SECTION - IV ( PLASTER &amp; FINISHING WORKS)</b>				
12	13.11	Cement plaster in course sand with 12 mm cement plaster of mix:				
	13.11.2	1:4 (1 cement : 4 coarse sand)	Sqm.	40.35		

B.O.Q

SL.	BSR-18	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT
13	13.82B	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacture's specifications including appropriate priming coat, preparation of surface, etc. complete.				
	13.82B.2	On concrete work	Sqm.	20.18		
14	10.32.2	Providing and fixing angle guard for edge of floor In gratings, frames, guard bar, ladders, railings, brackets gates & similar works (If required)	Kg.	350.00		
15	NDDB 6.17	Providing & laying in position acid and alkali resistant red pre-polished machine cut Mandana stone of approved size around 23" x 23" or 17" x 23" about 25-30mm thick for flooring/ dado over average 30-40mm thick cement mortar bedding 1:4 (1 part cement mixed with acid and alkali proof powder, 4 part coarse sand with acid proof silica powder keeping the joint 6mm to 8mm wide and 12mm deep gap all around, raking the joint, curing, drying and filling the groove joint with epoxy resin and hardener mortar (parts by weight Araldite GY250 - 100 PARTS, Aradur 830 - 40 parts, Aradur 850 - 15 parts, Silca flour - 20 parts, silica sand - 200 to 300 parts ( Huntsman advanced materials (I) Pvt. Ltd. or other equivalent approved makes) including hand machine polishing and wax polishing etc complete as directed	Sqm.	19.25		
16	NDDB 6.18	Do same to as per above item specification but for Mandana stone 16 mm - 20mm thick in skirting, dado, risers etc as per technical specification over 12 mm thick cement mortar C:M 1:3 (1 part cement mixed with acid and alkali proof powder, 4 part coarse sand) bedding over two coats of acid and alkali proof primer including filling the joints with epoxy etc. complete but including hand / machine polishing and wax polishing etc as directed.	Sqm.	18.50		
<b>SECTION-V (MISCELLANEOUS WORKS)</b>						
15		<b>Carriage of Materials</b>				
	a	Graded Stone aggregate (175Km.)	Cum.	19.26		
	b	Coarse sand (45 Km.)	Cum.	10.58		
	c	Bricks (8Km.)	1000 No.	1.02		
	d	CEMENT 5 Km.)	Tonne	7.12		
	e	REINFORCE (STEEL) 5 Km.	Tonne	1.55		
		Local Sand 7Km.	Cum	1.00		
16		<b>Difference of Cost of Materials</b>				
	a	Bricks	1000 No.	1.02		
	b	Cement	Tonne	7.12		
<b>SUB TOTAL</b>						
<b>TOTAL AMOUNT</b>						
<b>CONDITIONS OF CONTRACTOR</b>						
I AM AGREE TO DO THIS WORKS :						
				<b>QUOTE RATE</b>		
1	ON THE GIVEN B.O.Q RATE					



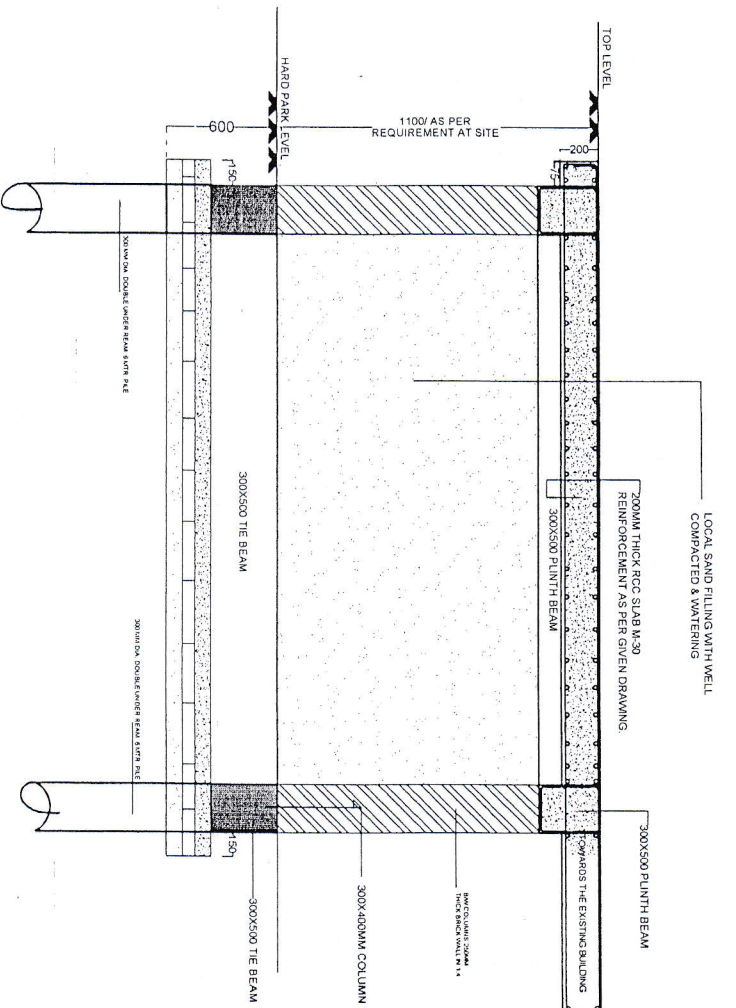
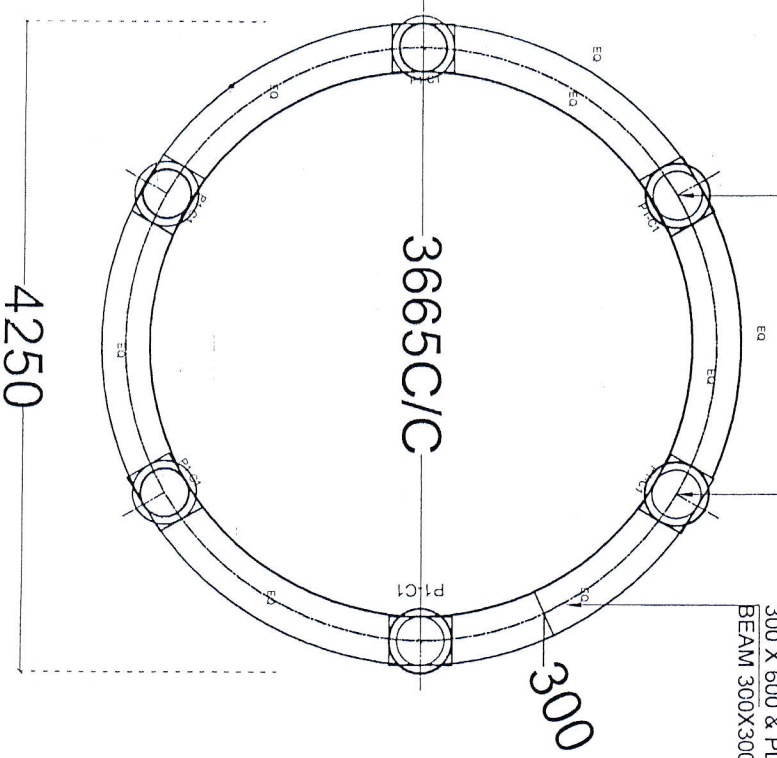


150MM PROJECTED SLAB

400MM Ø D/U PILE

COLUMN 400X300

CAPPING BEAM AT G. LVL  
300 X 600 & PLINTH  
BEAM 300X300



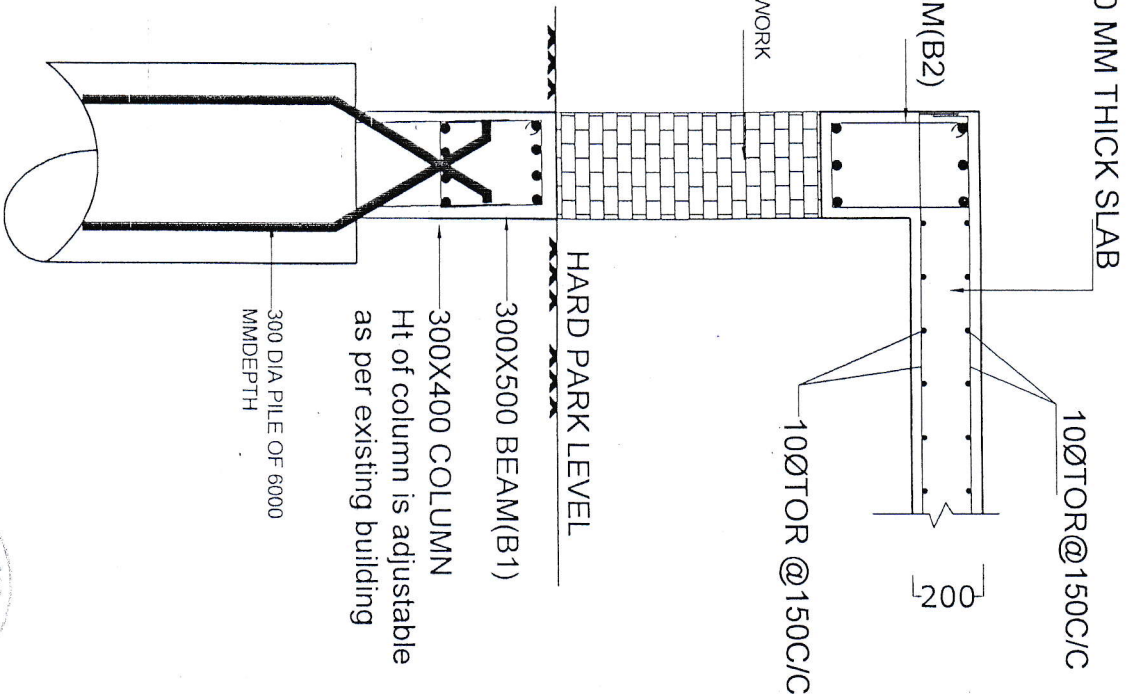
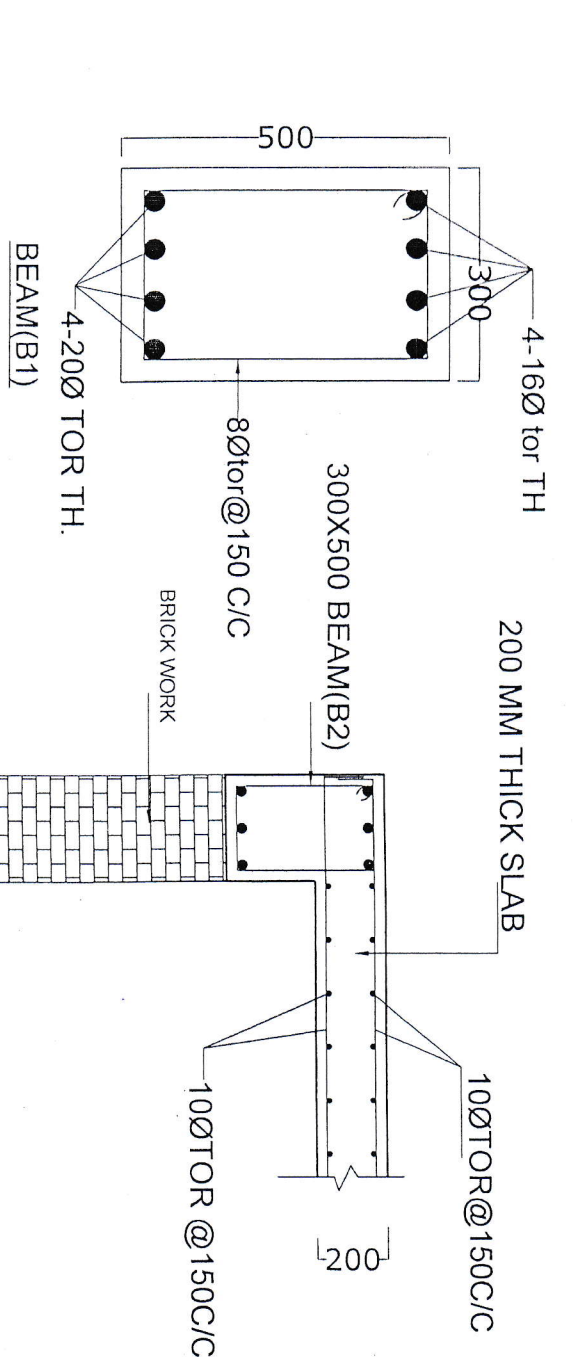
PROJECT:  
CONSTRUCTION OF SILO PLATFORM & FOUNDATION  
AT PATNA DAIRY PROJECT PATNA, PHULWARSHARIF,  
PATNA, BIHAR

DRAWING NO.		SEA-01	
SCALE	DATE	SCALE	DATE
1:1	12/2024	1:1	12/2024

NOTE:  
1. KEEP TOP OF THE BEAM 300MM HIGH FROM  
EXISTING HARD PARK LEVEL.  
2. HOOK OF RING MUST BE 8 TIMES OF BAR DIA.  
3. ALL REINFORCEMENT SHOULD BE DONE OVER  
P.C.C & BRICK SOLING.  
4. PILE DEPTH FROM PILE CAP BOTTOM SHOULD BE  
7.0 MTR.

ADVANCE COPY

**DEVCHANDRA CREATIVE ASSOCIATES**  
ARCHITECTS, ENGINEERS, PLANNERS, DESIGNERS,  
INTERIOR DESIGNERS, LANDSCAPE,  
WORK SUPERVISION, WORK EXECUTION &  
CONSULTANTS  
DEVCHANDRALAYA OPPOSITE BACHAPAN PLAY SCHOOL,  
PRAHALAD SINGH PATH, GANDHI NAGAR, ASHIYANA  
NAGAR, PATNA - 800025 BIHAR,  
T.PH.-06122550734, MOB.-7319915111, 9473024734  
EMAIL: [devkhashi@gmail.com](mailto:devkhashi@gmail.com)



VERTICAL-SECTION OF SLAB

**NOTES:-**

- (1) All dimensions are in mm unless noted otherwise
- (2) All dimension are to be read not to be measured
- (3) All concrete mix M-25/ M-30 unless otherwise specified
- (4)  $f_y$  indicated for steel yield stress 415N/mm sq
- (5) All concrete shall be machine mixed and machine vibrated
- (6) Clear cover to main steel for column=40mm, beam=25mm, footing=50mm
- (7) Development length should be 50xd
- (8) Lap length=40x dia of bar.

**NOTES:-**

1. ALL CASE OF DIMENSIONAL QUANTITY, FOLLOW ARCH. DRA.
2. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED TO BE FOLLOWED.

ADVANCE COPY

PROJECT:  
CONSTRUCTION OF SILO PLATFORM & FOUNDATION  
AT PATNA DAIRY PROJECT PATNA, PHULWARSHARIF,  
PATNA, BIHAR

DRAWING: DESIGN OF COLUMN, THE BEAM  
& PLINTH BEAM ETC AND SECTION

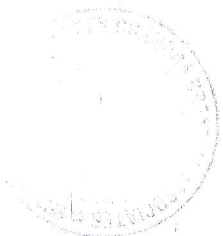
Structural consultant :-

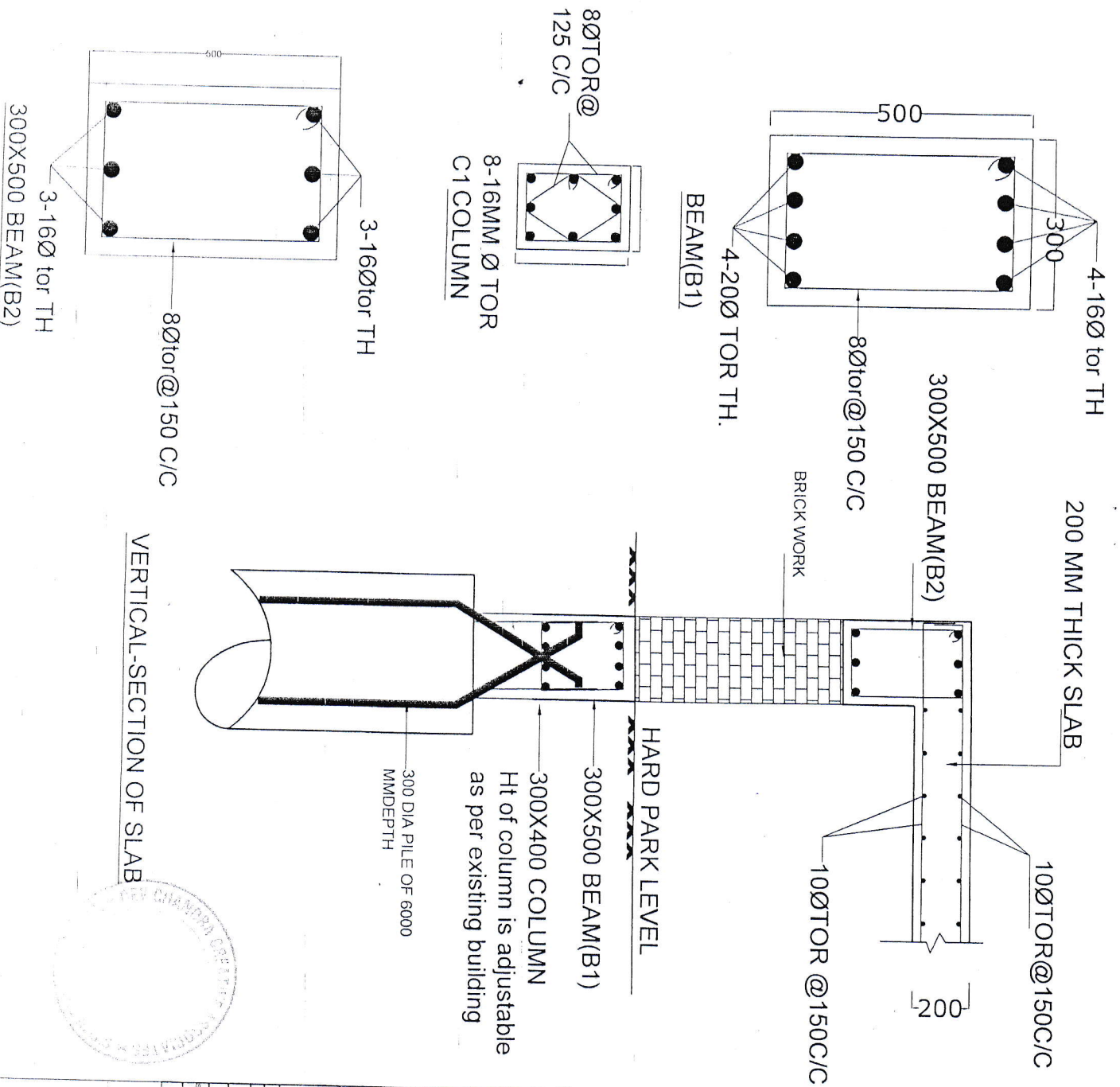
SAPERS DESIGNERS  
806/3450a Mahipalpur  
Patna-800001 Tel:0612-2201133

SCALE	DATE	DRG NO.	STR-02
NTS			
DESIGN BY :- SAUGHAM			
CHECK BY :- RAJENDRA			
SECTION			

**DEV-CHANDRA CREATIVE ASSOCIATES**  
ARCHITECTS, ENGINEERS, PLANNERS, DESIGNERS,  
INTERIOR DESIGNERS, LANDSCAPE,  
WORK SUPERVISION, WORK EXECUTION &  
CONSULTANTS

DEVCHANDRALAYA OPPOSITE BACHAPAN PLAY SCHOOL,  
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EMAIL - [dev\\_khashhi@gmail.com](mailto:dev_khashhi@gmail.com)





**NOTES:-**

- (1) All dimensions are in mm unless noted otherwise.
- (2) All dimension are to be read not to be measured.
- (3) All concrete mix M-25/ M-30 unless otherwise specified
- (4)  $\phi$  indicated for steel yield stress 415N/mm sq
- (5) All concrete shall be machine mixed and machine vibrated.
- (6) Clear cover to main steel for column=40mm, beam=25mm, footing=50mm
- (7) development length should be 50xd
- (8) Lap length=40xd of bar.

**NOTES:-**

1. IN CASE OF DISCREPANCY, FOLLOW ARCH. DRG.  
2. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED  
TO BE FOLLOWED.

**ADVANCE COPY**

**PROJECT:**  
CONSTRUCTION OF SILO PLATFORM & FOUNDATION  
AT PATNA DAIRY PROJECT PATNA, PHULWARSHARIF,  
PATNA, BIHAR

**DRAWING:** DESIGN OF COLUMN, THE BEAM  
& PUNTH BEAM ETC AND SECTION

Structural consultant :-

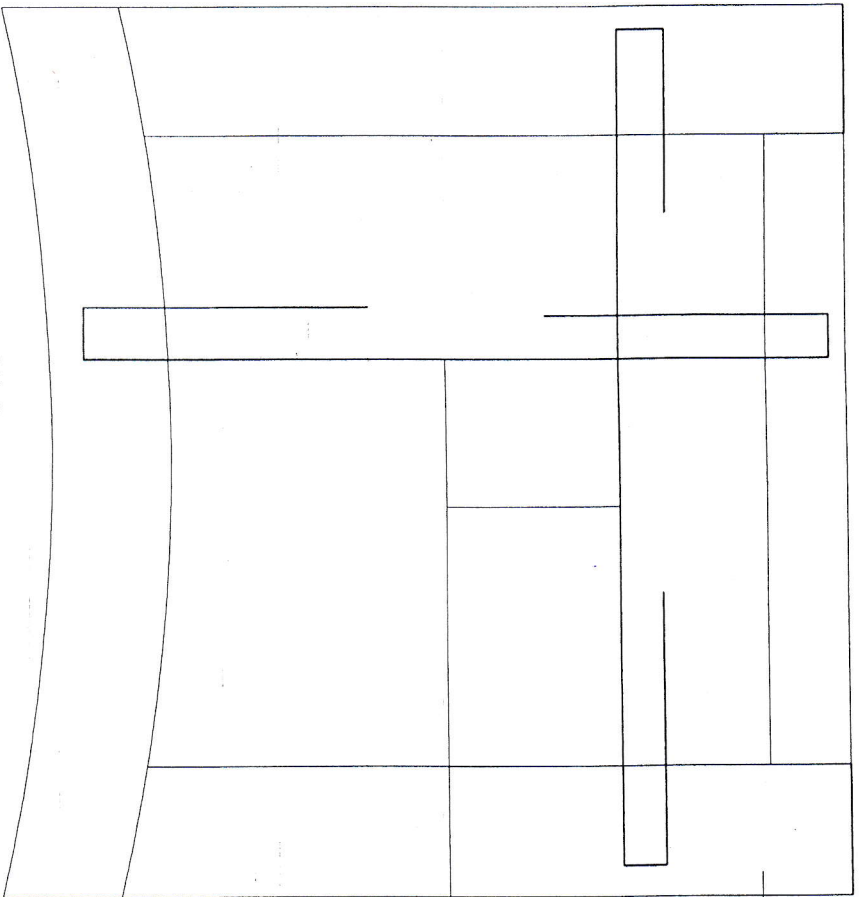
SAPPIERS DESIGNERS  
B-5, Sardar Market,  
Patna-800001 Tel. 0612-2201133

SCALE	DATE	DRG NO.	STR-02
NTS			
DRAWN BY: RAJESH			
CHECK BY: RAJESH			
SECTION			

**DEV-CHANDRA CREATIVE ASSOCIATES**  
ARCHITECTS, ENGINEERS, PLANNERS, DESIGNERS,  
INTERIOR DESIGNERS, LANDSCAPE  
WORK SUPERVISION, WORK EXECUTION &  
CONTRACTORS

DEVCHANDRALAYA OPPOSITE BACHAPAN PLAY SCH-OO,  
PRAHALAD SINGH PATH, GANDHI NAGAR, ASHIVAN,  
NAGAR, PATNA - 800025, BIHAR  
T.PH-06122550734 MOB-7319915111, 94730264734  
E.M.A.I.L: devchandracreative@gmail.com

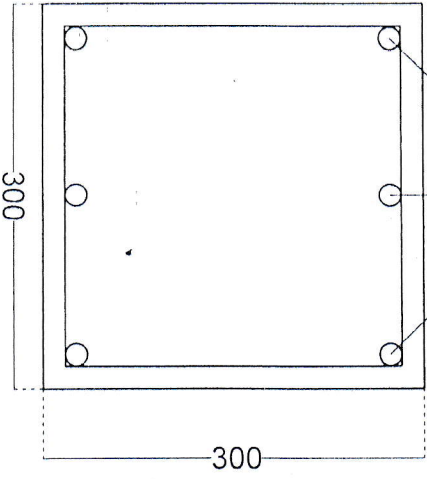
EXISTING WALL



CONNECTING BEAM  
300X300

10 ØTOR 125 C/C BOTH  
WAY WITH U3 U-SHAP  
REINFORCEMENT IS IN  
DOUBLE JALI SHAPE

3+3 -16 ØTOR &  
8-ØTOR RING@ 1500/C



CONNECTING BEAM 300X300

SILO  
CONNECTING BEAM & SLAB  
PLAN IS ADJUSTABLE AT SITE



PROJECT  
CONSTRUCTION OF SILO PLATFORM &  
FOUNDATION AT PATNA DAIRY PROJECT  
PATNA, PHULWARSHARI, PATNA, BIHAR

DRAWING  
DESIGN OF CONNECTING  
BEAM & SLAB

Structural elevation

SAPTECH DESIGNS  
B-24, New Kalyanpur, Patna  
Phone: 9852250734, 909-7519999  
Email: info@saptech.com

DATE: 10/11/2023

SCALE: 1:100

PROJECT NO: 2023/01

CLIENT: PATNA DAIRY PROJECT

SECTION

NO. OF SHEETS: 01

TOTAL SHEETS: 01

DATE: 10/11/2023

SCALE: 1:100

PROJECT NO: 2023/01

CLIENT: PATNA DAIRY PROJECT

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