



**JAWAHAR VIDYA MANDIR**  
**SHYAMALI, RANCHI – 834002**

AFF.NO.-3430004  
School No.:08055  
Ph.:2411221, 2411665

**जवाहर विद्या मंदिर, श्यामली, राँची - 834002**

No.JVM/002/2019-20

Date: 07-06-2019

**Sub:-Renovation of Girls/ Boys/ Ladies Staff Toilet ( wash room ) ( 10 nos.)**

Dear Sir,

The principal of Jawahar Vidya Mandir, Shyamali , Ranchi invites On- line tenders from you for the above work to be carried out in JVM premises.

Tenderers will have to submit their quotations in two sealed envelopes separately as described below:-

**Part A :-** Techno commercial bid

**Part B :-** Price bid

Both the parts A and B are to be submitted to the Principal, Jawahar Vidya Mandir, Shyamali, Ranchi-2 by 1.00 PM on **13-06-2019**.

**SCOPE OF WORK**

: The scope of service cover dismantling the floor and Fixing the kota stone and tile work in the wall and plastering & painting of Toilet of Jawahar Vidya Mandir

The rate for any item of work in the schedule shall be deemed to include unless otherwise stated, cost of all materials including wastage, loading, transportation and unloading, labour, tools and tackles, fuel, consumable, scaffolding and other temporary works, all incidentals such as setting out, site drainage, offering sample for approval, cost of all tests, rectification of all defects, replacement of defective material and work, removal of debris etc., interruption of work required to accommodate the work of other agencies working in that area, site clearance after completion of work , maintenance of completed works during period of maintenance , working at all locations and levels and for all necessary leads and lifts etc.

As per requirement & direction of Site Supervisor(JVM) , contractor shall provide all required construction plant & equipment which include concrete mixture, Mechanical vibrators, pumps etc.

**TECHNICAL ELIGIBILITY CRITERIA (CIVIL)**

Technical requirements of the eligible bidders are as detailed below:

Bidders should have successfully executed / completed similar work of the following magnitude during last 5 years ending on last day of the preceding month in which this tender is floated.

At least one executed/completed similar work having value of the job not less than **9 Lakhs**.

OR

At least two executed/completed similar works having value of each job not less than **5.5 Lakhs**.

OR

At least three executed/completed similar works having value of each job not less than **4.4 Lakhs**.

In case bidder has successfully executed work of larger volume in a longer duration, portion of the work executed during the last five years shall be considered. In case the work is in progress, value of work done during the qualifying period shall be considered.

*Signature*

*Signature*  
7/06/2019





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**Similar work**

Similar work shall mean execution of civil works related to any Residential /Commercial/Institutional/ Industrial projects involving RCC, Masonry & finishing works etc on item rate/turnkey basis.

Bids shall be evaluated based on technical capability and commercial offer.

**Documents to be submitted**

a) The bidder shall submit self attested copy of the following:

- i) Letter of award / Work Order.
- ii) Completion / execution certificate indicating value of work executed during the qualifying period.
- iii) In case the completed / executed value is not indicated in the certificate, the bidder shall submit documentary evidence of the value executed / completed during the qualifying period in the form of bills, duly certified by the client.

1. Terms and conditions are enclosed herewith.
2. All the tenders shall be accompanied by EMD ( Earnest money deposit) of Rs. 20000/- (Rupees twenty thousands only) payable to "Jawahar Vidya Mandir, Shyamali Ranchi " in the form of" demand draft". Tenders received without EMD are liable to be rejected. EMD shall be refunded to successful bidder after execution of order and to unsuccessful bidder after finalization of order. The bidder shall submit documentary evidence of work in reputed concern with value of 10 ( ten ) lakh during last five years.
3. **Cost of the Tender** : The cost of the tender will be Rs.1000/- (One thousand only) non-refundable in the form of" demand draft drawn on any Nationalized/ Schedule Bank in favour of Jawahar Vidya Mandir.Shyamali.
4. Duration of work : One month from the date of work order received .
5. Payment : The payment shall be made against R.A bill to be submitted by the contractor alongwith paper related to payment of P.F, ESI & GST etc with measurement sheet & abstract of executed quantity duly certified by the Engineer In-charge.
6. Security deposit: 5% security deposit is to be deducted from every bill which shall be refunded after maintenance period of six month.
7. Income tax deduction as per rule. Other taxes and duties shall be applicable as per statutes. Document of GST registration shall be submitted along with the bid. GST No, shall be mentioned in the tax invoice.
8. Liquidated damage: The job shall be completed in accordance with the schedule stipulated in the work order. If the contractor fails to complete the work as per schedule, JVM shall recover the amount of LD @0.5% of work order per week of delay subject to maximum of 5% of work order excluding taxes/duties.

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9. You are requested to visit the site before quoting your rate.

10. All the pages of GCC and SCC (enclosed with NIT) are to be signed along with bids.

Thanking you

Yours faithfully

( SAMARJIT JANA )  
PRINCIPAL

*Dr. Singh*  
*ad*



**JAWAHAR VIDYA MANDIR****SHYAMALI, RANCHI – 834002**AFF.NO.-3430004  
School No.:08055  
Ph.:2411221, 2411665**जवाहर विद्या मंदिर, श्यामली, राँची - 834002****Cost estimate****Date: 07-06-2019****Sub: Renovation of Toilet ( wash room )**

Sl.no	DSR	Description	Unit	Area	Rate	Amount
1	15.23.2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles above 25 mm and up to 40 mm	sqm	82		
2	4.1.4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	cum	.49		
3	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete	sqm	11		
4	13.6.2	20 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand) sqm 360.10	sqm	48		
5	11.26	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 with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	sqm	11		
6	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and 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 slabs, including rubbing and polishing complete.	sqm	4.5		
7	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved Make (kajariya, somany, orient, simpola), in all colours, shades except burgundy, bottle green, black of size 450 x 300 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.	sqm	48		





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8	14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	35		
9	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	35		
10	14.63	Distempering with 1st quality acrylic distemper (ready made) <b>having VOC content less than 50 gm per ltr.</b> of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. One or more coats on old work	sqm	35		
11		W C Pan make: Jaguar/Hid ware	nos.	3		
12		20"x16" ash basin make: Jaguar/Hid ware	nos	1		
13		¾" PVC pipe make ; Supreme/Finolex	RFT	20		
14		¾"Ball valve make ; Supreme/Finolex	Nos.	2		
15		½" valve make ; Supreme/Finolex/Hind ware	Nos.	2		
16		CP Angle stop valve make ;Supreme/Hind ware	No.	1		
17		C P Bib cock make hind ware /Supreme	Nos.	1		
18		C P Pillar cock of Supreme/ Hind ware	Nos.	1		
19		4" PVC Pipe Supreme/ Finolex	rft	20		
20		4"x5" P Trap Of Supreme/ Finolex	Nos.	3		
21		¾" elbow of Supreme / Finolex	Nos.	15		
22		¾"x ½" Elbow of Supreme / Finolex	nos	12		
23		¾"x ½" Tee of Supreme / Finolex	nos	10		
24		¾" x 3" nipple of Supreme / Finolex	nos	8		
25		¾"x 6" nipple of Supreme / Finolex	nos	8		
26		¾" washers of Supreme / Finolex	nos	24		
27		¾" Union of Supreme / Finolex	nos	4		
68		Pipe hook of Supreme / Finolex	nos	10		
69		C P Jali of Supreme / Finolex	nos	2		
70		4" plan tee of Supreme / Finolex	nos	4		
71		4" x 90° C45 bend of Supreme / Finolex	Nos	4		
72		¾" x ¾" Tee of Supreme / Finolex	nos	6		
73		Solvent,putty etc				
		Electrical				

For one toilet Rs. \_\_\_\_\_

Say Rs. \_\_\_\_\_

For Ten toilet Rs. \_\_\_\_\_

*[Signature]*  
*[Signature]*

*[Signature]*  
( H P Singh )  
Supervisor JVM

*[Signature]*





**General Condition of Contract (G.C.C.)**

1. Your scope of work shall include all workers, suppliers and services for completion of entire work as directed through work order.
2. The contractor shall have own site office, stores, godown as may required for carrying out the subject work.
3. Provision of all labours, skilled, semi skilled, less skilled as may be required to complete the work.
4. Providing adequate tools, instruments, tackles, scaffolding etc. for completion of entire work.
5. Procurement of all the materials, as may be required for carrying out the work.  
Abide by statutory regulations, labours rules, safety codes during execution of work.
6. Abiding by all statutory obligations including ESI, EPF etc . during execution of work and shall submit all evidence in this respect such as ESI, EPF certificates and minimum wage certificate along with each and every bill.
7. Contractor shall make arrangement at his own cost for drawing and distributing water and power from single point each where water and power will be provided by JVM free of cost.
8. Undertaking all works including repairs and renovation work for completion to the satisfaction of JVM.
9. Agency and/or the worker engaged by agency will not have any claim for payment employment in JVM. The age limit of worker shall be between 19 yrs. and 60 yrs.
10. Rate of wage shall not be less than the minimum wages plus prevailing percentage of EPF, FP, ESI, EDLI, Bonus etc. as required under the law.
11. Agency shall ensure fulfillment of all labour regulations/rules under the Labour Act and all other statutory requirement of Government of India and Government of Jharkhand.
12. Monthly bill based on actual deployment of worker shall be submitted by Agency statutory payment ) viz. EPF, FP, ESI, EDLI, bonus etc.) including taxes payable if any.
13. Unit rates of all the items shall remain firm, fixed and binding on the contractor during entire period of execution of work and shall not be subjected to any variation whatsoever on any account.
14. This being a unit rate contract, the payment shall however be released against actual quotations of work however be released against actual quantities of work executed duly certified by the JVM.
15. Unless other wise specified, measurement of work shall be carried out at site jointly by JVM & Contractor.
16. **Liquidated damages for non-fulfillment of completion schedule.** If the completion of work is delayed beyond the scheduled date for any reason other than due to force major condition or for those attributable to the contractor, then the contractor shall pay 1% per month of delay on total value of work up to a maximum of 5% of the final contract price.
17. The contractor shall not sublet/sub contract the whole or any part of work failing which the contract may be terminated.

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18. No completion certificate shall be issued or shall be work be considered to be complete until the contractor removes from the site all scaffolding, surplus materials, rubbish etc.
19. **Maintenance Guarantee Period (defect liability period):** The contractor guarantees that for a period of 12 (twelve) months commencing from the date of completion of contract. He shall undertake reconstruction rectification, replacement of all regular schedule work and any other work to make good the faulty work as stated under completion certificate for period of 06 (six) months from the date of issue of commissioning certificate.
20. The contractor shall have a valid labour license and shall also maintain al records/ register/return/cards under state contract labour (R&A) rules act such as :-
  - i) Register of workmen employed by contractor : Form - 9
  - ii) Employment card : Form – 10
  - iii) Muster roll : Form - 12
  - iv) Register of wages-cum-muster roll : Form - 13
  - v) Wage slip : Form – 15
  - vi) Register of over time : Form – 19
  - iii) Submission of Return in Form – 20
21. **Time schedule of contract:** Total execution period will be up to 20-06-2019.
22. Further, JVM also reserves the right to cancel the tender without assigning any reasons for the same. In such event JVM shall return the Earnest money deposit.
23. The bidder shall take adequate precaution to ensure complete safety and precaution of accident at site and shall be responsible for the same. The safety precaution shall conform to the safety regulations prescribed by the safety code for constructions and relevant Indian Standard code.
24. To ensure quality of construction, the contractor shall ensure inspection and testing of materials and works at his own cost.





**Special condition of contract (S.C.C.)**

Work : Aluminum work for Partition, doors, Providing and Fixing false ceiling, flooring, painting and electrical fitting and construction work, Jawahar Vidya Mandir, Shyamali, Ranchi -2

1. The contractor may be asked to carry out the above mentioned work as per drawing.
2. The contractor should do the work as per direction/ requirement of site engineer/supervisor.
3. The work will be executed on firm item rates basis as quoted. The contractor will be issued with site order indicating various works to be taken up by the contractor.
4. Any defect found within the guarantee period shall have to be attended by the contractor at their own cost and risk.
5. The institutional building regulations of the safety code shall have to be strictly followed by the contractors.
6. The work is to be executed as per specifications mentioned in BOQ and direction of site engineer. The payment will be on actual measurement and consumption of items.
7. Terms of payment : 90% value bill/tax invoice shall be paid within (15) fifteen days after completion of work. Contractor shall submit Bill in triplicate alongwith measurement sheet/abstract of the quantity being executed by the contractor at site, Income Tax Registration no. (PAN) and GST registration No.
8. Work measurement sheet should be on printed form/letter head of the contractor duly signed and stamped by the contractor and certified by JVM site engineer.
9. T.D.S. will be affected from all payments as per prevailing rules.
10. 10% (ten percent) work value shall be paid after completion of warranty period/ maintenance guarantee period and submission of pre-receipted invoice and completion of all his contractual certified by JVM alongwith submission of following documents :-
  - a) Completion certificate issued by JVM – original
  - b) No dues certificate from JVM
  - c) No claim/no demand certificate by the contractor – original
  - d) Copies of all statutory documents to be provided by the contractor as required by JVM
11. JVM shall deduct taxes at source as per prevailing status from the payment to be made to the contractor. JVM shall deposit amount thus deducted with the concerned authorities and issue necessary certificates to the contractor to this effect.





ANNEXURE- 1

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8)	Schedule of Quantity	BOQ : 1-4 (Separately enclosed)

*Dr. Singh*

*Dr. Singh*





**2.0 INTRODUCTION & SPECIAL CONDITION OF CONTRACT**

**2.0 GENERAL**

The proposed site of work is located in JVM, Shymali, Mecon Colony, Ranchi, Jharkhand

**2.1 Site Visit**

Before submission of tender, the tenderer shall inspect the site to study the nature and extent of work involved and also to obtain first hand information regarding site condition, quantum of supervision involved in execution of work and any other factor before quoting the rates. The Tenderer shall consider all such aspects in the quoted rate carefully and no claim whatsoever shall be entertained later on the plea of ignorance of site conditions or any other factors.

**2.3** In the event of any discrepancies between drawings and specifications, it may be noted that drawings shall supersede the specifications. Similarly in case of any discrepancies between description in Drawing and Schedule of items (BOQ) the provisions in the schedule of items shall prevail.

**2.4 Working Drawings**

Three copies of working drawings, as required shall be issued to the successful tenderer for construction purposes.

**2.5 Bench Mark**

Standard bench mark reference pillar indicating the level and reference axes shall be indicated to the contractor. Contractor shall construct all other survey pillars required by them for survey work with reference to this bench mark pillar. Contractor shall take all precautions to protect the survey pillars from being damaged / dislocated during progress of work.

**2.6 Dimensions**

Figured dimensions shall prevail in preference to scaled dimension. Large scale details will supersede small scale details shown in drawings. In case of discrepancy between the two, the contractor shall obtain clearance of purchaser before proceeding with work.

**2.7 Specifications**

Specifications for construction work and materials given in the technical specification included in General Technical Specification or the details specified on drawings shall be of best standard. If the specification for any item of work and material is not available in the documents attached to the tender, then "specification of work" (latest edition) published by CPWD shall be followed.

**2.8 Works not to be misused**

All works under or in course of execution or executed shall not be used by the Contractor for any of his purpose e.g. storage of materials, residence, office etc. under any circumstances.

**2.9 Sequence of work**

Contractor shall plan the sequence of all works so as to achieve the desired progress keeping in mind overall safety and stability at all points of time.





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some interruptions are inherent to any one or more types of work or items of execution, then no claim for such interruption shall be entertained and contractor shall have to follow the sequence as instructed by the engineer.

**2.10 Damages**

Any existing services or other properties if damaged or demolished during the course of execution either willfully or negligently, shall be repaired and re-erected to its original shape & size by the contractor at own cost.

The Contractor will take all precautions against damages due to rain and storm and no liability shall rest with the purchaser for any loss for redoing of any work on this account.

Existing underground services coming in the way of trench or foundation excavation etc. have to be adequately supported by the Contractor at his own cost so as to avoid any damage to those services. In case of any accidental damage, the Contractor shall arrange to rectify and reinstall those services immediately.

**2.11 Quality Assurance**

- To ensure quality of construction, the contractor shall ensure inspection and testing of all materials and works at his own cost conforming to specifications.
- All certificates and guarantees obtained by the contractor from different suppliers of materials shall be passed on to the purchaser.
- All defective materials / works which do not conform to the specifications shall be rejected / dismantled and removed from site and redone by the Contractor at his own cost.

**2.12 Construction Materials**

- All construction materials needed for civil works including reinforcement steel & cement shall have to be arranged and procured by the Contractor.
- Responsibility for ensuring the quality and custody of cement shall rest with the Contractor. If the contractor uses the cement without any check on quality which may result in poor quality concrete, then dismantling and redoing such defective structures shall be at contractor's cost. No claim whatsoever due to poor quality of cement shall be entertained later.
- The contractor shall make his own arrangements for all tools, tackles and labour including hutment etc. if required.

**2.13 Safety**

The Contractor shall ensure that the safety requirements are met in respect of men, materials, adjoining structures, equipment etc. and shall be totally responsible in case any mishap occurs due to negligence or otherwise. In this connection the contractor shall strictly adhere to the rules norms and regulations as applicable.

- The Contractor is to make his own arrangements for supplying and providing necessary staging etc. from ground level to the working heights as required, transport of all construction materials, equipment, labour etc. at his own cost.
- Wherever the construction work is being carried out, the Contractor has to provide sufficiently strong and stable staging so as to ensure safety of the labour. The design and erection of these temporary structures shall be approved by the Engineer before put to use.

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and erection of these temporary structures shall be approved by the Engineer before put to use.

- c) The Contractor shall dismantle and remove the staging and other temporary facilities at site on final completion of work, clear and clean the site and make good the damages caused to the structure and restore it to original condition at his own cost.

**2.14 Specifications and drawings obligatory on the contractor**

The specifications and drawings given for execution and acceptance of construction work are obligatory to the contractor for the construction work. If in the course of construction work some additional problems arise, which are not covered by the given specification, the contractor shall be given proper instruction by the Engineer. Such instruction shall be binding and shall be observed in full by the contractor regarding specifications, drawing, method of conducting work and other measures necessary for the fulfillment of construction time table as well as instruction on problems concerning the order of work.

**2.15 Stores on the Site**

The Contractor shall provide for all necessary storage, if required, at the site in specified areas for all materials such as timber, cement and such other materials, which are likely to be deteriorate by the action of sun, winds, rain or other natural cause due to exposure in open, either in the compounds or in stores, in such manner that all such materials, tools, etc. shall be duly protected from damage by weather or any other cause. All such stores shall be cleared away and the whole site left in good order on completion of the work. All materials, sand, etc. shall be stocked in such a manner as to facilitate rapid and easy checking of quantities of such materials.

**Samples**

- a) Samples of the materials to be used shall be submitted at the Contractor's cost for approval of the Engineer on demand.
- b) All Contractor's materials shall be inspected and passed by the Engineer from time to time and as per requirement at the source of supplies, manufacturing workshops or at site. The Contractor shall providing all facilities for such inspection free of cost. Notwithstanding any inspection at the source, the Engineer shall have liberty to reject any material brought to the site that does not conform to specification without being liable for compensation.

**2.16 Construction Tools & Tackles**

Besides the provisions made in General Condition of Contract, the Contractor will be required to provide and maintain in working order adequate numbers of the tools & Tackles during construction period.

**2.17 Pumping out Water from Excavations etc.**

No extra rate shall be allowed for pumping out water including monsoon water from excavations or for carrying out construction in water logged areas. Contractor's rates for earth work will be presumed to have included for the same.

In case of water logged areas, the Contractor shall ensure that the site is completely drained out of water and no damage is done to the foundations under construction.





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For reduction in the scope of the work, either in part or full at any stage of work due to unforeseen circumstances or any other reasons beyond the control of the Purchaser, the Contractor shall have no claim whatsoever against the Purchaser.

**2.19 Supply of Materials**

No material shall be supplied by JVM School and the Contractor shall procure and provide the whole of materials required for the construction including MS / TOR Steel Rods, Cement and other Building Materials, Tools & Tackles, Construction Plants and Equipments for the construction and maintenance of the work.

The material to be used shall be new and procured from the approved source.

**2.20 Dismantling and Re-erection**

The tenderer is required to fully study the existing arrangement and shall include in his rates cost of all such work of dismantling, demolition, re-erection in conformity with the requirement of this work all in proper manner and in proper co-ordination as required for uninterrupted running of the existing pipe lines, drains, roads etc. including necessary excavation, pumping out water, making good damages and restoring all to its original or required conditions as directed by the Engineer.

**2.21 Temporary Access**

Temporary access by timber bridge is to be provided over the trenches by the contractor at his own cost.

**2.22 Shoring of Excavation**

Adequate shoring as required by the Engineer shall be provided for all excavations in trenches etc. and the cost of such shoring, planking and strutting shall be held to be inclusive in the contract rate.

**2.23 Royalty on Materials**

Royalties for the construction material e.g. sand, stone aggregate, boulder, moorum, brick etc. as prescribed from time to time by state/ central Government shall be born by contractor and paid directly. All mining regulations shall have to be strictly adhered to by contractor.

**2.24 Changes**

The type of construction is indicated in the drawings. These are provisional and the Engineer reserves the right to modify the details within the basic structural / architectural features.

**2.25 TIME SCHEDULE**

The time of completion for the whole civil work shall be three months effective from the date of issue of L.O.I.

**3.0 SPECIFICATION FOR CIVIL WORKS**

This specification of civil works as per latest revision of the "Specification of work" published by CPWD shall be followed.





**4.0 MEASUREMENT OF WORK**

Measurement of work shall be carried out from the working drawings /sketches incase issued by Purchaser and mode of measurement shall be as specified in general specification or as per the latest IS:1200.

In absence of drawing / sketch, measurement at site shall be taken jointly by site engineer and contractor. In case of any dispute decision of purchaser will be final.

**5.0 CONTRACT PRICE**

**5.1 PRICE**

The contract is an item/unit rate contract. The items rates shall be stated by the contractor under schedule of items and irrespective of any variation of quantities stated under schedule of items shall remain firm, fix and binding on the contractor during the period of contract.

The payment of contractor will be made as per actual quantities done against each item and as per agreed unit rate of item.

**5.2 RATE FOR EXTRA ITEM**

Should it be found necessary to execute any item of work which is not included in the schedule of items and as such no contract rate is available, the rates for such extra item shall be fixed as per the following procedure.

- a) Where the extra works are of similar character and/or executed under similar conditions as any of work appearing in schedule of quantities, then the rates for such extra item shall be derived from the contract rates of similar/closest item of work provided.
- b) Where the nature of extra item is such that the rate for the same cannot be derived as per procedure (a) above, then the item of work are of similar character and/or executed under similar condition as appearing in the CPWD specification, then the rates for such extra items shall be followed as per latest edition of CPWD schedule of rates.
- c) Where the nature of extra item is such that the rate for the same cannot be derived as per procedure (a) & (b) above rate shall be established based on the market rates of labour and materials and taking into account 10% over cost of labour and materials to cover supervision, overheads and profit. The process for rate analysis will be as per CPWD norms.

**6.0 PREAMBLE TO SCHEDULE OF QUANTITIES**

The Tenderer shall take into account in his rate the provision of all the following works given below. No extra claim will be paid for these works to the Contractor.

The tenderer's rate for any item of work in the schedule shall be deemed to include unless otherwise stated , cost of all materials including wastage, loading, transportation and handling, unloading, labour, tools and plant, fuel consumable, erection and removal of scaffolding and other temporary works, all incidentals such as setting out, site drainage, offering samples for approval, cost of all tests, rectification of all defects, replacement of defective material and work, removal of debris etc., interruption of work required to accommodate the work of other agencies working in that area, site clearance before, during and after completion of work and maintenance of completed works during period of maintenance, providing facilities for inspection . Unless specified otherwise in particular, the rates for all items shall include working at all locations and levels and for all necessary leads and lifts.

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**6.1 EARTH WORK**

- 1) Ground level shall mean the actual commencement level from which excavation has been taken-up.
- 2) Taking levels and reference axis and making reference pillars wherever necessary from reference lines and bench mark, both for the ground level as well as for the finished work, as directed by Purchaser shall be in the Contractor's scope of work.
- 3) There will be no distinction of rate between the work done manually or mechanically.
- 4) Shoring and strutting to retain the excavated sides and to protect the adjoining structures and services including removal of same shall be in the Contractor's scope of work.
- 5) Dewatering of accumulated water from any source till completion of all work below ground level and including provision of surface drains, catch pit etc. wherever required shall be in the contractor's scope of work.
- 6) Providing adequate protection for safety of labour, materials, adjoining property, services, structures and equipment, installing barriers around excavated area, foundations, trenches and pits and providing red lights during night time, engaging night watchmen for safety against risks and accident shall be under contractor's scope of work.
- 7) Stacking the excavated material at approved locations including levelling the same as directed by the Purchaser shall be under contractor's scope of work.
- 8) Dressing and trimming to required level, profile and gradient shall be under contractor's scope of work.
- 9) Back-filling with excavated earth including all handling / re-handling and removing unwanted material from soil shall be under contractor's scope of work.
- 10) Compacting, leveling, trimming to levels, profiles and gradient as per drawing, specifications and as directed by the Purchaser shall be under contractor's scope of work.
- 11) Transportation of surplus materials and excavated earth replaced by foundation, structure etc. shall be in the Contractors scope of work.

**6.2 CONCRETE (PLAIN & REINFORCED)) INCLUDING GROUTING, PRECAST CONCRETE**

The rate of the respective item shall also include, but not limited to the following as described hereinafter in different Sub-Heads.

**Concrete**

1. Setting out all works from reference axes and bench marks.
2. Cleaning, washing and screening of aggregates whenever necessary.
3. Dewatering of all foundations and areas during concreting.





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5. Provision of Building paper and bearing plaster at bearing of slabs resting over walls.
6. All the appropriate provisions as stipulated in the specification of concrete chapter for materials, Design Mix, Preparatory works/surface preparation for concreting, facilities for checking, mixing, transportation, placing and compaction of concrete, requirements in special cases of concreting, appropriate finishes to exposed surface, curing by appropriate means, all types of testing including hydraulic testing for Reservoirs, water tank etc. as directed.
7. Provision of construction joint (water bar excludes) and surface preparation of construction joint and cold joint, before placement of concrete.
8. Provision of chases, holes/openings as per drawing and grouting with cement mortar as directed.
9. Cleaning all anchor holes and keeping them, covered.
10. Protection of the structures/premises, foundations till final handing over and keeping the premises etc. dry.
11. The hacking or roughening the exposed surface to receive plaster or where it is to be joined with brick masonry wall.
12. Providing moulding, throating, drip course, etc. unless mentioned otherwise in Schedule of Item.

**6.3 SHUTTERING FOR ALL CIVIL ENGINEERING WORKS**

Providing, erecting and fixing all types shapes of shuttering as per requirements and as approved by Purchaser, centering true to line and level, held firmly with bolts, separators and tension devices etc. at all locations and levels and stripping of the same.

- 1) Setting out the form work as per drawing.
- 2) Preparation and design of form work whenever required and providing the same for approval.
- 3) Providing necessary staging and scaffolding to support the existing wall including all measures required for easy movement and inspection.
- 4) Construction of holes and pocket of different sizes at all locations and levels including its shuttering, removal and cleaning and keeping the holes clean during construction until grouting.

**6.4 REINFORCEMENTS FOR ALL CIVIL ENGINEERING WORKS**

- 1) Rolling margin (plus or minus) if any, shall neither be considered for accounting nor for payment.
- 2) Cleaning and protection of reinforcement, de-coiling and straightening of bars including bending, binding in position
- 3) Provision of chairs, spacer bars, hangers, spacer blocks, binding wires etc. (Chairs and spacers will be measured for payment)

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- 4) Provision for all laps as per drawing and as directed by engineer. Only authorized laps will be payable.

**6.5 EMBEDDED PARTS LIKE INSERTS**

- 1) Cleaning the embedded parts including the fixtures before use.
- 2) Provision of all jigs, fixtures, templates etc. which are not integral part of the embedded part, but necessary for fixing inserts, bolts etc. in position including all necessary welding, tying and plugging etc.
- 3) Providing approved anticorrosive paint (red oxide) on the exposed surface, as directed.
- 4) Providing grease on the exposed portion of anchor bolts and covering them by approved means.
- 5) Rate for inserts shall include fixing over existing concrete and steel surface including all necessary welding.

**6.6 MASONARY**

The rate of the respective items shall be for the complete finished work and shall also include, but not limited to the following bye works/activities all complete at all levels and locations and as per specification and as directed by the Engineer.

- 1) Setting out the works as per drawings.
- 2) Dewatering during works in foundations and in some particular cases, if found necessary.
- 3) Provision of scaffolding, platform, ladder, etc. including all necessary safety measures and accessibility and removal of the same.
- 4) Necessary surface preparation of dissimilar materials for proper bonding with masonry works as specified and as directed.
- 5) Providing opening/holes for which no deduction is made in the measurement.
- 6) Extra provision necessary in ends of beams, joints, slabs and the like, with necessary levelling.
- 7) Raking of joints, as the work proceeds.
- 8) Bedding for plates, lintels, corrugated sheets and the like with necessary levelling.
- 9) Extra provisions necessary for projection, string course, sills, jambs, soffits of openings.
- 10) Curing by appropriate means.
- 11) Provision of metal pins, dowels, cramps, etc. for stone veneering.
- 12) Provision of necessary form work, template and centering in case of arches.
- 13) Removal of unused materials, dirt, debris, etc. and clearing the above after completing the work in particular area, if required.
- 14) Provision for drainage holes and recesses for cement concrete blocks, to embed holdfasts for door, windows, etc.

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- 15) Chases and holes for sanitary and other service viz. sanitary and electrical fittings, hangers for pipes and cables support and for call bells, clamps for light and fans, etc. as shown in drawing or as directed.

#### **6.7 PLASTERING AND FINISHING**

The rate of the respective item shall be for the complete finished work and shall also include, but not limited to, the following bye-works/activities all complete at all levels and locations and as per specification and as directed by the Engineer.

- 1) Preparation of surface to receive plaster/finish etc. cleaning of masonry/concrete surface of all dust, loose mortar dropping, traces of algee efflorescence and other foreign matter and roughening by wire brushing or hacking as may be required and raking out of joints where required.
- 2) Provision for scaffolding wherever required and removing the same.
- 3) Extra provision necessary to provide plastering /finishing in layers, when required.
- 4) All extra provisions necessary for plastering/surface finish in arises, bonds, bends, closing chases, rounded angles, drip courses, string courses, around openings/holes, and around dissimilar materials like metallic/timber/asbestos.
- 5) Nominal sprinkling of the cement slurry on the surface for proper grip and satisfactory finishing of the plaster work, if required.
- 6) Providing richer mortar 1:3 in a width of 75 mm on either sides of arrises of all doors and windows.
- 7) All provisions necessary to achieve levels and true profiles.
- 8) Curing by appropriate means.
- 9) Removal of unused materials, dirts and debris and cleaning of area thorough, after completion of the work in particular area, if required

#### **6.8 WHITE WASHING COLOR WASHING & PAINTING**

The rate of the respective items shall be for the complete finished work and shall also include, but not limited to, the following bye-works/activities at all levels and locations and complete in all respects as per specification and as directed by the Engineer.

- 1) Preparing the base surface including necessary rectification and treatment.
- 2) Provision of surface ladders, scaffolding etc., wherever necessary.
- 3) Provision of prime coat wherever applicable.
- 4) Curing by appropriate means wherever applicable.
- 5) Cleaning the splashes and drippings on floors, equipments, pipelines, etc.
- 6) Additional work to rectify the improper workmanship specially if final finish is not satisfactory.





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8) Provision of brushes, abrasive papers, indigo (neel) and gum.

**6.9 DISMANTLING :**

- 1) Provision for dismantling concrete/brick work in all shapes including circular holes beyond 40 mm diameter.
- 2) Provision of necessary staging and scaffolding, platform, ladder etc. including all measures necessary for easy movement and inspection.
- 3) Provision for cutting existing reinforcements, inserts, bolts and other embedments etc., if required.
- 4) Provision for stacking at approved location, existing reinforcements, inserts and bolts and returning to the JVM Store, if required.
- 5) For payment purpose the measurement for volume of dismantling shall be made based on the actual volume excluding plaster before dismantling as per drawing / as directed by Purchaser.
- 6) Provision for dismantling concrete in block, if required, of maximum weight not exceeding one tonne including cutting of reinforcement and disposal of blocks at approved location.
- 7) Carrying away the dismantled debris daily from the work site to dumping yard earmarked by MECON/JVM.

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