BHARAT COKING COAL LIMITED

SIJUA AREA.

Ref. No: GM/SA/Civil/388/2011 Dated: 28/29.01.2011

OPEN TENDER NOTICE

Sealed tenders on percentage basis in two bids system (Tech./Com.Bid and Price Bid) are hereby invited from bonafide, experience resourceful and registered contractors for the following works:-

Sl. No.	Name of work & Location	Estimated Cost (in Rs.)	Earnest Money (in Rs.)	Cost of Tender paper (in Rs.)	Time of Completion
1.	Rep. maint. of qtr. no. B type2, B type 58& B type (BTA) under Nichitpur Colliery.	57,746.31	577.00	100.00	15 Days
2.	Making stair & RCC roof for watch tower at Tetulmari Nichitpur magazine under Sijua Area.	1,20,275.47	1203.00	100.00	One month
3.	Shifting of Bandh Baba from Jogta Fire Project to Bandh baba colony roadside under Mudidih Colliery.	1,16,538.73	1165.00	100.00	-do-
4.	P/F 80mm dia G.I. pipe from near office Ti 6 no. colony of Loyabad Colliery.	1,89,601.04	1896.00	100.00	-do-
5.	Sealing of 2 nos. abandoned incline Traveling & haulage way at Loyabad Colliery.	1,09,507.96	1095.00	100.00	-do-

Availability of tender documents from: 14.02.2011 to 18.02.2011

Tender documents will be issued on all working days during working hours except on Sundays & holidays. In the event of the specified date for submission/opening of bids being declared a holiday the bids will be received/opened on the appointed time on the next working day. The tender document is also available on Website http://bccl.cmpdi.co.in and can be downloaded.

Time and date of receipt/opening of tender -

- a) The tenders will be received on 21.02.2011 from 10.00 A.M. to 3.00 P.M. in Tender Box kept at:
 - i) CISF Post Sijua Area Office campus.
 - CISF Post, near Koyla Bhawan gate, Koyla Nagar, BCCL, Dhanbad
- b) The tender received will be opened on 24.02.2011 at 4:00 P.M. in the Office of Area Civil Engineer, Sijua Area.

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1. **ELIGIBILITY CRITERIA**:

a) The intending tenderers must have in the name, experience and having successfully completed similar works during last 7(Seven) years ending, last day of month previous to the one in which Bid Application are invited (i.e. from 01.01.2004 to 31.12.2010) should be either of the following:-

Three similar completed works each costing not less than the amount equal to 40% of the estimated cost.

OR

Two similar completed work each costing not less than amount equal to 50% of the estimated cost.

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

N.B: Similar nature means: Civil repairing maint./const. work for sl.no.1 &3 pipe line work for sl.no.4 & civil work including bricks work & RCC work for sl.no.5&2.

b) Average annual financial turn over of civil works during last three years ending 31st March of the previous financial year(i.e. for 2007-08, 2008-09 & 2009-10) should be at least 30% of the estimated cost. (To be submitted TDS Form-16).

The intending tenderer must submit documentary evidence in support of 1(a) & 1(b) above in the form of certified copy of work order, completion certificate, payment certificates/ vouchers etc. indicating the period of work for which the payment has been made duly signed by him/them.

- Note:- (i) Provision under eligibility criteria 1. (a) shall also include those similar work "while considering the value of completed works, the full value of completed works be considered whether or not the date of commencement is within the said seven years period."
- (ii) As per eligibility criteria specified under Sl.No.1(a). Pre-qualification shall be done based on experience of successfully completed works and not on experience of work in progress.
- 2. The tender documents can be had from the office of the Area Civil Engineer, Sijua Area during the period mentioned above on deposition of requisite cost of tender paper in form of cash or Bank Draft of Nationalized bank /scheduled commercial Bank approved by Reserve Bank of India in favour of Bharat Coking Coal Ltd., payable at Dhanbad.
- 3. Completed sealed tender documents (part I & II) should be submitted at the same time.

 Part-I shall consist of terms and conditions of the tender, additional terms and conditions if any, technical bid and credentials.

Part-II shall consist of tender documents as sold to the tenderers duly filled in for rates, amounts etc. i.e. price bid.

The Earnest money deposit is to be submitted in a separate Envelope superscribing "Earnest Money Deposit" (Earnest Money to be submitted in form of cash or bank draft of Nationalized bank/scheduled commercial bank approved by Reserve Bank of India in favour of Bharat Coking Coal Ltd.,payable at Dhanbad.)

The bid shall be submitted in three separate envelopes.

Envelope-I should contain E.M.D. and the cost of tender document if downloaded from the website.

Envelope-II should contain Part-I of Tender Document

Envelope-III should contain Part-II i.e. Price Bid.

Thereafter, all the three envelopes should be submitted in one sealed envelope.

The tender will be received on 21.02.2011 from 10.00 A.M. to 3.00 P.M. in Tender Box kept at :-

- i) CISF Post Sijua Area Office campus.
- ii) CISF Post, near Koyla Bhawan gate, Koyla Nagar, BCCL, Dhanbad

and will be opened on 24.02.2011 at 4:00p.m. in presence of the intending tenderer or their authorized representative in the Office of Area Civil Engineer, Sijua Area V only part-I will be opened on this date.

The Part-I will be opened only after receipt of EMD and in case of downloaded tender, the cost of tender document too.

The Part-II will be opened only after: the department is satisfied that the criteria fixed are fulifilled i.e. on acceptance of part-I.

- 4. The earnest money is to be deposited as per detail given in the tender documents.
- 5. Sales Tax clearance certificate copy shall be <u>attested by a Gazetted Officer</u> of the Govt. (Central or State) & TIN No.
- 6. The tenderers have to submit Permanent Account No. (PAN) of Income Tax.
- 7. Conditional tenders will not be accepted.
- 8. Issuance of tender documents does not mean that the tenderer has been considered qualified.
- 9. The experience as given in the eligibility criteria should be in the name and style in which tender is filled. The experience in the name of some other firm/company will not be considered for this purpose.
- 10. The validity of the tender will be 120 days from the date of opening of price bid or revised price bid if any.
- 11. The management of BCCL reserves right to reject any or all tender or split the work among two or more tenderers without assigning any reasons whatsoever.
- 12. Other details may be obtained from detailed tender notice/tender documents/website http://bccl.cmpdi.co.in.
- 13. If tender document has been downloaded from the above mentioned website, the tenderers are required to deposit along with their tender, a Bank Draft of any Nationalized / Schedule Commercial Bank approved by Reserve Bank of India payable at Dhanbad exclusively towards the cost of Tender Document for the amount indicated as above, in the envelope as stated at Clause 3 of this NIT. Bank Draft prepared after the scheduled closure of sale of Tender Documents are liable for rejection.

- 14. The contents of the Tender Documents as available in our office, shall be deemed as authentic .The bidder will be required to submit an undertaking that they will accept the tender document as available in the web-site and their tender shall be rejected if any tampering is there in the tender document thus submitted.
- 15. No Tender will be issued or submitted by postal means.
- 16. In case of any injury/accident it will be the responsibility of the Contractor to pay all legal dues their workers.

Area Civil Engineer Sijua Area

- c.c.to: E.S to E.D.(Vig.), BCCL, Koyla Bhawan.
- c.c.to: G.M. (Const.), Koyla Bhawan
- c.c.to : GM (System), BCCL with a request to display this NIT in BCCL website.

 The downloading facility should be available during the period of sale of tender document only.
- c.c.to: G.M., Sijua Area.
- c.c.to: A.G.M., Sijua Area.
- c.c.to: A.F.M., Sijua Area.
- c.c.to: PM(Admn.I/C) Sijua Area.
- c.c.to: All CGM/GMs Area- I to 12, Block-II, E/Jharia & W/Jharia.
- c.c.to: All Project Officers, Sijua Area.
- c.c.to: Civil Tender Notice Board kept at CISF Office, Sijua Area.
- c.c.to: The Secretary, Chhatabad Malkera Adarsh Shramik Sahyog Samiti,
 - 5, Chhatabad, Katras, Dhanbad.
- c.c.to: Inspector I/c, CISF, Koyla Bhawan.
- c.c.to: Asst. Commandant CISF, Sijua Area
- c.c.to: Builder Association of India, Central Akashkinaree Kanta Garh, Dhanbad-828113.
- c.c.to: Builder Association of India, 316 LIG Housing Colony, Dhanbad.

BHARAT COKING COAL LIMITED (A Subsidiary of Coal India Ltd.) <u>SIJUA AREA V</u>

1.	Name of Work	:	
2.	Name of Agency	:	
3.	Cost of tender paper	:	
4.	Date of Earnest Money	:	
			Area Civil Engineer

Signature of the Tenderer

Sijua Area

BHARAT COKING COAL LIMITED (A Subsidiary of Coal India Ltd.) <u>SIJUA AREA V</u>

The following details have to furnished by the tenderer while submitting the tender.

- 1) Name of the tenderer
- 2) Whether individual, partnership or Limited Company.
- 3) Postal address of the company proprietor together with their telephone No./Mobile No. etc.
- 4) In respect of partnership, limited company, the name of other partners/directors, together with their address
- 5) List of other firm/partnerships doing the business in BCCL where in the above firm/partners/directors are concerned with.
- 6) Whether proprietors/partners/directors are connected with any employees working in BCCL, if so the details of the employee designation and place of posting.
- 7) Any contract being carried on in BCCL, by the above firm/proprietor /partnership / limited company in his own name and if so, the details of the contract being executed.
- 8) Details of the Sales Tax registration No. if any and Income Tax/PAN No.
- 9) Whether the proprietor/partnership firm/ company as a Income-Tax assesse and if so, the year upto which the last assessment has been made (Income-Tax clearance certificate/ Xerox copy of Pan Card No. should be enclosed).

This details will form a part of the tender paper.

Failure to fill up these data will mean automatic rejection of the tender. The tender papers without any other these information will not be considered. This will from the part of the agreement also.

Area Civil Engineer Sijua Area

Bill of Quantity for the work of "Rep. maint. of qtr. no. B type2, B type 58& B type (BTA) under Nichitpur Colliery."

Sl. No.	Particulars of the work	Unit of Qnty.	Quantity	Rate	Amount (in Rs.)
1	Distempering with oil bound distemper of approved brand and manufacture to give an even shade: Old work (one or more coats).	sqm	430.00	14.90	6407.00
2	White washing with lime to give an even shade: Old work (two or more coats).	sqm	160.00	4.10	656.00
3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: One or more coats on old work.	sqm	130.00	22.85	2970.50
4	12mm cement plaster of mix: 1:6 (1cement : 6fine sand).	sqm	40.00	67.65	2706.00
5	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI:12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for the tank.	per litre	1000.00	5.25	5250.00
6	25mm p.s. flooring.	sqm	30.00	102.84	3085.20
7	Providing wood work in frames of doors, windows, clearstory windows and other frames wrought framed and fixed in position :Sal wood.	cum	0.14	30511.9	4271.67
8	Providing and fixing ISI marked flush door shutters conforming to IS::2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face	sqm	2.00	904.40	1808.80

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	neneers on both faces of shutters:				
	30mm thick including ISI marked				
	stainless steel butt hinges with				
	necessary screws.				
9	Providing and fixing brass bib	each	8.00	191.70	1533.60
	cock 15 mm nominal bore of				
	approved quality.				
10	Grading roof for water proofing	cum	2.00	3314.95	6629.90
	treatment with: Cement concrete				
	1:2:4 (1cement : 2coarse sand :				
	4graded stone aggregate 20 mm				
	nominal size)				
11	20mm cement plaster of mix: 1:4	sqm	30.00	118.25	3547.50
**	(1cement : 4coarse sand).	54111	30.00	110.23	33 17.30
12	12mm cement plaster finished with	sqm	40.00	97.90	3916.00
12	a floating coat of neat cement of	sqiii	70.00	71.90	3710.00
	_				
13	mix: 1:4 (1cement : 4fine sand). Earth work in excavation by	01122	4.00	103.40	413.60
13	j	cum	4.00	103.40	413.00
	mechanical means (Hydraulic				
	excavator) / manual means				
	foundation trenches, drain not				
	exceeding 1.5 m in width as well				
	as 10 sqm on plan including				
	dressing of sides and ramming of				
	bottom, lift up to 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 soils).				
14	Providing and laying cement	cum	1.00	2449.00	2449.00
	concrete of specified grade				
	excluding the cost of centering and				
	shuttering in all works up to plinth				
	level: 1:4:8 (1cement: 4coarse				
	sand: 8graded stone aggregates 40				
	mm nominal size).				
15	Brick work with modular bricks of	cum	2.00	2007.00	4014.00
	class designation 50 in foundation				
	and plinth using cement mortar 1:6				
	(1cement : 6coarse sand).				
16	Half brick masonry with FPS	sqm	14.00	270.35	3784.90
	bricks of class designation 50 in	1			2,0
	foundation and plinth in cement				
	mortar 1:6 (1cement : 6coarse				
	sand).				
	sand).				

17	Providing and fixing fly proof galvanized M.S. wire gauze to windows and clerestory windows using galvanized M.S. wire gauze with average width of aperture 1.4mm in both directions with wire of dia. 0.63mm with 12mm mild steel U beading.	sqm	7.00	291.95	2043.65
18	Providing and fixing white vitreous china wash basin including making all connections but excluding the coat of fittings: Flat back wash basin of size 630x450 mm.	each	3.00	753.00 Total	2259.00 57,746.31
				(Rs.)	57,740.31

Bill of Quantity for the work of "Making stair & RCC roof for watch tower at Tetulmari Nichitpur magazine under Sijua Area."

Sl. No.	Particulars of the work	Unit of Qnty.	Quantity	Rate	Amount (in Rs.)
1	Brick work with modular bricks of class designation 50 in superstructure using cement mortar 1:6 (1cement : 6coarse sand).	cum	12.20	2137.96	26083.11
2	Reinforced cement concrete work in beams suspended floors, roofs having slope up to 15 degrees, landings and balconies, chhajjas, shelves, lintels, bands, plain window sills, staircases and spiral staircases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement: 1:2:4 (1cement: 2coarse sand: 4graded stone aggregates 20 mm nominal size).	cum	4.70	3673.85	17267.09
3	Centering and shuttering including strutting, propping etc. and removal of form for lintels, beams, plinth beams, girders, bressummers and cantilevers.	sqm	8.00	162.65	1301.20
4	Centering and shuttering including strutting, propping etc. and removal of form for suspended floors, roofs, landings, balconies and access platform.	sqm	18.00	187.35	3372.30
5	Centering and shuttering including strutting, propping etc. and removal of form for stair cases (excluding landings) except spiral stair cases (including landings).	sqm	17.00	204.00	3468.00
6	Reinforcement for RCC work including straightening, cutting, bending, binding and placing in position complete: Cold twisted bars.	kg	376.00	42.70	16055.20

7	12mm cement plaster of mix: 1:6	sqm	192.00	67.65	12988.80
	(1cement : 6fine sand).				
8	25mm thick p.s. flooring.	sqm	25.31	102.83	2602.62
9	Providing wood work in frames of doors, windows, clearstory windows and other frames wrought framed and fixed in position :Sal wood.	cum	0.16	30511.9	4881.91
10	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diametre bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1cement : 3coarse sand : 6graded stone aggregate 20 mm nominal size).	each	12.00	61.50	738.00
11	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete: 100x85x5.5mm (heavy type).	each	8.00	164.25	1314.00
12	Dismantling doors, windows and clerestory windows (steel or wood) shutters including chowkhats, architrave, hold fasts etc. complete and stacking of materials within 50 metres lead: Of area 3 sq. metres and below.	sqm	2.00	54.60	109.20
13	Fixing chowkhat in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts embedding hold fasts in cement concrete 1:3:6 (1cement : 3coarse sand : 6stone aggregates 20mm nominal size) painting two coats of approved wood preservatives to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50metres lead: Door chowkhats.	each	2.00	354.45	708.90

14	Providing and fixing 4mm thick coir veneer board ISI marked IS:14842-2000, plain linning with necessary screws etc. and priming coat on unexposed surface complete.	sqm	3.93	556.30	2186.25
15	White washing with lime to give an even shade: Old work (two or more coats).	sqm	150.00	4.10	615.00
16	Colour washing with lime to give an even shade: Old work (two or more coats).	sqm	200.00	395.00	750.00
17	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: One or more coats on old work.	sqm	50.00	22.85	1142.50
18	P/F/F top steel window.	sqm	3.00	1065.75	3197.25
19	P/F/F hard rail.	kg	120.00	60.15	7218.00
20	Providing surface drain	mtr	35.00	122.40	4284.00
21	Cleaning jungle including uprooting rank vegetation, grass, brush wood trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	100 sqm	2560.00	263.90	6755.84
22	Cleaning grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	100 sqm	1855.00	135.65	2516.30
23	Grass scraw.	each	60.00	12.00	720.00
				Total (Rs.)	1,20,275.47

Bill of Quantity for the work of "Shifting of Bandh Baba from Jogta Fire Project to Bandh baba colony roadside under Mudidih Colliery."

Sl.	Particulars of the work	Unit of	Quantity	Rate	Amount
No. 1	Earth work in excavation by mechanical means (Hydraulic	Qnty.	14.34	103.40	(in Rs.) 1482.75
	excavator) / manual means foundation trenches, drain not				
	exceeding 1.5 m in width as well				
	as 10 sqm on plan including dressing of sides and ramming				
	of bottom, lift up to 1.5 m including getting out the				
	excavated soil and disposal of				
	surplus excavated soil as directed within a lead of 50 m.				
2	(All kinds of soils).		1.62	201.50	400.42
2	Filling in plinth with Jamuna sand under floors including	cum	1.62	301.50	488.43
	watering, ramming, consolidation and dressing				
	complete.				
3	Providing and laying cement concrete of specified grade	cum	2.13	2449.00	5216.37
	excluding the cost of centering				
	and shuttering in all works up to plinth level: 1:4:8 (1cement:				
	4coarse sand : 8graded stone aggregates 40 mm nominal size).				
4	Brick work with modular bricks	cum	15.37	2007.00	30847.59
	of class designation 50 in foundation and plinth using				
	cement mortar 1:6 (1cement :				
5	6coarse sand). Filling available excavated earth	cum	16.46	45.70	752.22
	(excluding rock) in trenches,	Cuili	10.70	73.70	132.22
	plinth sides of foundation etc. in				
	layers not exceeding 20 cm in depth consolidating each				
	deposited layer by ramming and				

Sprick on edge soling. Sqm 132.00 172.93 25466.76		watering lead up to 50 m and lift				
7 Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering in all works up to plinth level: 1:2:4 (Icement: 2coarse sand: 4graded stone aggregates 20 mm nominal size). 8 Cement concrete flooring 1:2:4 (Icement: 2coarse sand: 4graded stone aggregates) finished with a floating coat of neat cement including cement slurry but excluding the cost of nosing of steps etc. complete: 40 mm thick with 20 mm nominal size stone aggregates. 9 Brick work with modular bricks of class designation 50 in superstructure using cement mortar 1:6 (Icement: 6coarse sand). 10 12mm cement plaster of mix: sqm 96.42 67.65 6522.81 1:6 (Icement: 6fine sand). 11 12mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (Icement: 4fine sand). 12 Colour washing such as green, blue or buff to give an even shade: New work (two or more coats) with a base coat of white washing with lime. 13 Providing and fixing M.S. grills kg 31.50 64.40 2028.60	-	up to 1.5 m.	0.0422	122.00	172.02	2516676
excluding the cost of centering and shuttering in all works up to plinth level: 1:2:4 (1cement: 2coarse sand: 4graded stone aggregates 20 mm nominal size). 8 Cement concrete flooring 1:2:4 sqm (1cement: 2coarse sand: 4graded stone aggregates) finished with a floating coat of neat cement including cement slurry but excluding the cost of nosing of steps etc. complete: 40 mm thick with 20 mm nominal size stone aggregates. 9 Brick work with modular bricks of class designation 50 in superstructure using cement mortar 1:6 (1cement: 6coarse sand). 10 12mm cement plaster of mix: 1:6 (1cement: 6fine sand). 11 12mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (1cement: 4fine sand). 12 Colour washing such as green, blue or buff to give an even shade: New work (two or more coats) with a base coat of white washing with lime. 13 Providing and fixing M.S. grills kg 31.50 64.40 2028.60		Providing and laying cement				18632.61
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shade: New work (two or more coats) with a base coat of white washing with lime. 13 Providing and fixing M.S. grills kg 31.50 64.40 2028.60	12		sqm	96.42	9.30	896.70
washing with lime. 13 Providing and fixing M.S. grills kg 31.50 64.40 2028.60		_				
13 Providing and fixing M.S. grills kg 31.50 64.40 2028.60		,				
	12		1za	21.50	64.40	2028 60
of required pattern in frames of	13	of required pattern in frames of	kg	31.30	04.40	2028.00
windows etc. with M.S. flats,						
square or round bars etc. all		_				
complete: Fixed to openings/ wooden frames with rawl plugs,						
screws etc.						

14	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: One or more coats on new work.	sqm	1.95	33.25	64.83
15	Half brick masonry with FPS bricks of class designation 75 in foundation and plinth in cement mortar 1:4 (1cement : 4coarse sand).	sqm	30.73	270.35	8307.85
				Total (Rs.)	1,16,538.73

Bill of Quantity for the work of "P/F 80mm dia G.I. pipe from near office Ti 6 no. colony of Loyabad Colliery."

Sl.	Particulars of the work	Unit of	Quantity	Rate	Amount
No.		Qnty.			(in Rs.)
1	Providing and fixing G.I. pipes	metre	400.00	458.15	183260.00
	complete with G.I. fittings				
	including trenching and refilling				
	etc. External work: 80 mm				
2	nominal bore.	22.21	8.00	507.40	4050.20
2	Providing and fixing G.I. union in	each	8.00	507.40	4059.20
	G.I. pipe including cutting and threading the pipe and making long				
	screws etc. complete (new work):				
	80mm nominal bore.				
3	Making connection of G.I.	each	1.00	423.20	423.20
	distribution branch with G.I. main		-,,,		
	of following sizes by providing				
	and fixing tee, including cutting				
	and threading the pipe, etc.				
	complete: 50 to 80 mm nominal				
	bore.				
4	Providing and fixing gun metal	each	1.00	1369.25	1369.25
	gate valve with C.I. wheel of				
	approved quality (screwed end): 80				
	mm nominal bore.				
5	Cutting of 6" G.I. pipe and closing	L.S.	1.00	489.39	489.39
	pipe.				
				Total	1,89,601.04
				(Rs.)	

Bill of Quantity for the work of "Sealing of 2 nos. abandoned incline Traveling & haulage way at Loyabad Colliery."

S1.	Particulars of the work	Unit of	Quantity	Rate	Amount
No.		Qnty.	,		(in Rs.)
1	Recess cutting in coal	cum	7.61	48.93	372.35
2	Brick work with modular bricks of class designation 50 in foundation and plinth using cement mortar 1:6 (1cement : 6coarse sand).	cum	4.25	2007.00	8529.75
3	Brick work with modular bricks of class designation 50 in superstructure using cement mortar 1:6 (1cement : 6coarse sand).	cum	5.79	2137.96	12378.79
4	Reinforced cement concrete work in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, struts, buttresses, plinth, string or lacing courses, parapets, copings, bed blocks, anchor blocks, plain window cills, fillets etc. up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement: 1:2:4 (1cement : 2coarse sand : 4graded stone aggregates 20 mm nominal size).	cum	13.09	3720.00	48694.80
5	Reinforcement for RCC work including straightening, cutting, bending, binding and placing in position complete: Cold twisted bars.	kg	706.86	42.70	30182.92
6	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls,	sqm	28.20	180.40	5087.28

	walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets etc.				
7	12mm cement plaster of mix:	sqm	28.20	67.65	1907.73
	1:6 (1cement : 6fine sand).				
8	White washing with lime to give	sqm	28.20	6.75	190.35
	an even shade: New work (three				
	or more coats).				
9	Loading/unloading of material.	each	16.00	135.25	2164.00
	·			Total	1,09,507.96
				(Rs.)	