



NATIONAL INSTITUTE OF TECHNOLOGY

ROURKELA-769008 (ODISHA)

NOTICE INVITING TENDER

[CONSTRUCTION OF NEW ROADS AND WIDENING OF EXISTING ROADS AT NIT, ROURKELA (PHASE-IV) & EXTENSION OF HOMI BHABA HALL OF RESIDENCE (CIVIL, PH & ELECTRICAL) AT NIT, ROURKELA]

(TENDER NOTICE NO CT-27/2013-14)

Sealed proposals are invited for

[CONSTRUCTION OF NEW ROADS AND WIDENING OF EXISTING ROADS AT NIT, ROURKELA (PHASE-IV)]

Issue of tender (Website): **13.02.2014.**

Closing Date & Time : **06.03.2014, 3.00 PM**

Open on : **06.03.2014, 3.30 PM (Part-I & Part-II)**

(TENDER NOTICE NO CT-28/2013-14)

Sealed proposals are invited for

[EXTENSION OF HOMI BHABA HALL OF RESIDENCE (CIVIL, PH & ELECTRICAL) AT NIT, ROURKELA]

Issue of tender (Website): **13.02.2014.**

Closing Date & Time : **18.03.2014, 3.00 PM**

Open on : **18.03.2014, 3.30 PM (Part-I & Part-II)**

For details visit our website:

www.nitrkl.ac.in/Jobs & Tenders /Construction Tenders

Contact Person: Prof. S.K. Das, PIC (Civil Construction)., PhoneNo: **0661-2462315.** Email: **sarat@nitrkl.ac.in**

Registrar



NATIONAL INSTITUTE OF TECHNOLOGY

ROURKELA-769008, ORISSA
(Tender Notice No- CT-28 /2013-14)

(Extension of Homi Bhaba Hall of Residence (Civil, PH & Electrical) at NIT, Rourkela)

Sealed tenders are invited from reputed civil contractors of appropriate class having valid registration with PWD (Orissa State) / CPWD / PSUs / NITR having sound financial status, machinery, resources and experience in execution of similar works.

<u>Name of Work</u>	<u>Estimated Cost (Lakhs)</u>	<u>EMD</u>	<u>Time of Completion</u>
Extension of Homi Bhaba Hall of Residence (Civil, PH & Electrical) in NIT, Rourkela.	Civil & PH: 1090.00 <u>Electrical: 37.00</u> Total=Rs.1127.00	Rs.21,27,000.00	18 months

Interested firms who have executed similar types of works at least one work of 900.0 lakhs cost or two works of Rs.550.0 Lakhs or three works of Rs.450.0 Lakh. during last 5 years are requested to apply for the above mentioned job with credentials / information / testimonials addressed to the Registrar, NIT, Rourkela-769008, in three parts (**1st Part: EMD & Tender cost, 2nd Part: Techno commercial bids including prequalification requirement of tenders and 3rd part : Price bid**) in separate sealed covers for each work as mentioned above, superscribing on the top of the envelope:

(Extension of Homi Bhaba Hall of Residence (Civil, PH & Electrical) at NIT, Rourkela)

(TENDER NOTICE NO – CT-28 OF 2013-14)

DUE ON : 18.03.2014, 3.00 PM

OPEN ON : 18.03.2014, 3.30 PM (PART – I & PART – II)

The bid must be accompanied with the **EMD of required amount** in the form of Bank Draft from Nationalized Bank in favour of NIT, Rourkela payable at Rourkela in separate envelopes. A part of earnest money is acceptable in the form of bank guarantee also. In such case, Rs. 10,63,500/- will have to be deposited in the shape of Demand Draft and balance amount in shape of Bank Guarantee of any Nationalized bank having branch at Rourkela. The intending bidder has to fill all the details such as Banker's name, Demand Draft, Bank Guarantee number, amount and date. The Bank Guarantee submitted as a part of Earnest Money shall be valid for a period of six months or more from the date of submission of the tender.

The tender papers may be downloaded from NIT website (i.e. www.nitrkl.ac.in). However, payment of Rs.3000/- (non-refundable) towards price of Tender Documents plus Rs.150/- towards VAT in the form of a separate Bank Draft of a Nationalised bank payable at Rourkela in favour of Director, National Institute of Technology, Rourkela shall be submitted along with EMD. The firm must possess electrical License from Odisha State Government (Copy enclosed)

The prequalification shall be based on an objective evaluation of details regarding past performance in specific job areas, technical and financial capabilities and resources of the contractors including possession of appropriate equipment for the type of work etc. and with proven track record and will be evaluated by the NIT. Bidders are advised to enclose details of experience; status of Engineers employed and equipment at their disposal in each area of specialization. Bidders must make arrangement for inspection of their recent construction sites by NIT officials to ascertain their quality of construction.

Tenderers must include in their rates, sales tax (both CST & LST), excise duty, octroi, sales tax on works contract, payment of cess to the Government of Orissa as applicable and any other tax & duty or other levy by the central and state government or any other tax & duty or other levy or to be levied in future by the central government or state government or local authority if applicable.

The time of completion is firm, and penalty under liquidated damage clause will be charged for any delay in work.

Details including our prescribed format for prequalification, BOQ, General Conditions and Special Conditions of Contracts etc are available in our website at <http://www.nitrkl.ac.in/tender.asp>. **NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.**

(REGISTRAR)
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2476773

CHECK LIST FOR PRE-QUALIFICATION

Forms to be filled in properly.

1. Form-A: This form (check list)
2. Form-B: Letter of Transmitta
3. Form-C
4. Form-D
5. Photocopy of documents to be attached.
 - a) Valid license
 - b) Work orders executed of last 3 years.
 - c) Vat Clearance Certificate & PAN Card
 - d) Performance report from authority/officer having rank not below Executive Engineer with specific mention about the project components, scheduled and actual time of completion, final project value etc. to be submitted.

(Signature of the Agency)

PRE-QUALIFICATION INFORMATION

LETTER OF TRANSMITTAL

(To be typed on the Agency's Letterhead)

To

The REGISTRAR

**National Institute of Technology
Rourkela-769008.**

SUB : Extension of Homi Bhaba Hall of Residence (Civil, PH & Electrical) at NIT, Rourkela.

Sir,

Having examined the details of pre-qualification document, I hereby submit the pre-qualification documents and other relevant information.

1. I hereby certify that all the statements made and information supplied in the enclosed forms A to D and accompanying statements are true and correct to the best of my knowledge. I understand that if any information found incorrect, the application is liable to be cancelled.
2. I have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.
3. I certify that my firm is not **blacklisted/banned** from business by any organization.
4. I hereby accept the rules and procedures of the Institute for pre-qualification of Contractor and agree that the Institute has the right to accept or reject any application without assigning a reason thereto.

(Signature of the Agency)

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

APPLICATION FOR PRE-QUALIFICATION

1. **Name of Agency/Firm :-** _____
2. **Address:-** _____
3. **FAX/Telephone Number :-** _____
4. **Special Qualification for technical Person** _____
5. **Details of Registration** _____
6. **Volume of business in last three financial years.**
2010-11 Rs _____
2011-12 Rs _____
2012-13 Rs _____
7. **Important jobs executed in Govt./PSU including specifications, materials used etc.**
8. **Field of Specialization.**
9. **Valid Income Tax clearance certificate (ITCC).**
10. **Any other information regarding technical capability.**

(Signature of the Agency)

Annexure to application for pre-qualification

WORKS COMPLETED AND IN PROGRESS DURING THE LAST 3 YEARS (INCLUDING ALL WORKS AWARDED)

{ADD ADDITIONAL SHEETS, IF NECESSARY}

Sl. No.	Name of Work & Agreement No	Date of start	Date of Completion		Tendered Cost	Complete address of the Authority for whom the Work was done
			<u>Stipulated</u>	<u>Actual</u>		

PRICE BID

(To be submitted in the Letter Pad of firm)

To

The Registrar
National Institute of Technology
Rourkela – 769008.

SUB: Extension of Homi Bhaba Hall of Residence (Civil, PH & Electrical) at NIT, Rourkela.

Dear Sir,

We are hereby submitting the price bid for the above mentioned work.

Our quoted price is as given below from the schedule provided by NIT for the above mentioned work.

_____ % (In figure)	{	----- (In words)	}	<u>BELOW</u>
OR				
_____ % (In figure)	{	----- (In words)	}	<u>ABOVE</u>

The same percentage will be applicable to all the items.

Signed in the capacity of duly authorized to sign tenders for and behalf of

Name of Firm

Signature

Name & Address **Telephone No.**

..... **Mobile No.**

Date :

ESTIMATE						
PART-A(CIVIL WORK)						
NAME OF THE WORK:-PROPOSED EXTENSION OF HOMI BABA HALL OF RESIDENCE AT NIT ROURKELA.						
SL NO	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT	REMARK
A	EARTHWORK					
1	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including dressing of sides and ramming of bottoms including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50Mtr. (All kinds of Soil)	Cum	1900.00	116.41	221179.00	NITR,SL NO-5
2	Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (Exceeding 30Cm in depth 1.5m in width as well as 10 Sq.M on Plan) including dressing of sides and ramming of bottoms including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50Mtr. (Ordinary Rock)	Cum	1635.00	195.66	319904.10	NITR,SL NO-6
3	Extra rates of quantities for works, executed : (the extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions) In or under water and /or liquid mud, including pumping out water as required.	Cum	381.00	23.28	8869.68	NITR,SL NO-7
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50M and lift upto 1.5M	Cum	1011.00	50.77	51328.47	NITR,SL NO-8
5	Supplying and filling in plinth with river sand under floors including watering ramming consolidating and dressing complete.	Cum	560.00	273.14	152958.40	NITR,SL NO-9

6	Surface dressing of the ground including removing vegetation and in equalities not exceeding 15 Cm deep and disposal of rubbish , Lead upto 50M and lift upto 1.5M	Sq.M	5000.00	5.64	28209.50	NITR,SL NO-10
7	Clearing jungle including uprooting of rank vegetation , Grass brush wood ,trees and sapling of girth upto 30Cm measured at a height of 1 Mtr above the ground leveland removal of rubbish upto a distance of 50M outside te periphery of the area cleared	Sq.M	5000.00	2.91	14550.00	NITR,SL NO-11
8	Supplying chemical emulsion in sealed containers including delivery and ,diluting and injecting chemical emulsion for Post Constructional anti termite treatment					
(a)	Along external wall where the apron is not provided using chemical emulsion @ 7.5 Ltr/ Sq.M of the vertical surfaces of the substructure to a depth of 300mm including excavaation of channel along the wall & rodding etc complete					
	Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration	RM	290.00	33.42	9691.80	NITR,SL NO-13(a)
(b)	Treatment of soil under existing floor using chemical emulsion @one liter per hole, 300 mm apart including drilling 12mm diameter holes and plugging with cement mortar 1:2 (1 Cement : 2 Sand) to match the existing floor					
	Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration	Sq.M	350.00	185.76	65016.00	NITR,SL NO-13(b)
(c)	Along the external wall below concrete or masonry apron using chemical emulsion @2.25liter per linier metre including drilling and plugging holes etc.					
	Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration	RM	350.00	37.22	13027.00	NITR,SL NO-13(c)
				TOTAL	884733.95	
B	CEMENT CONCRETE					

1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down)	Cum	265.00	4065.29	1077301.85	NITR,SL NO-22
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 40mm Down)	Cum	79.00	3970.04	313633.16	NITR,SL NO-23
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:4:8 (1 Cement : 4 sand:8 Coarse Aggregate 40mm Down)	Cum	194.00	3077.31	596998.14	NITR,SL NO-25
4	Providing and laying damp proof course 40mm thick with cement concrete 1:2:4 (1 cement:2 sand:4 coarse aggregate 12.5mm nominal size)	Sq.M	300.00	184.14	55242.00	NITR,SL NO-29
5	Extra for Providing and mixing water proofing materials in cement concrete work @ 1Kg per 50kg Of cement	Per bag of cement	782.00	352.68	275795.76	NITR,SL NO-33
6	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3sand:6 Coarse aggregate) over 75mm thick bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sq.M	810.00	267.13	216375.30	NITR,SL NO-34
7	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down)	Cum	663.00	4622.35	3064618.05	NITR,SL NO-36

8	Providing and laying Reinforced cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars Post Buttress string or lacing courses Parapets Coping, slab beam, staircase, bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing					
	CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down)	Cum	1410.00	5019.81	7077932.10	NITR,SL NO-39
9	Providing and laying Reinforced cement concrete in vertical and horizontal fins indivisualsor forming box louvers facias and eaves board upto v th floor level excluding cost of centering shuttering finishing and reinforcement with CC 1:1½:3					
	CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down)	Cum	330.00	4853.27	1601579.10	NITR,SL NO-43
10	Extra for concreting in Super structure above floor V level for each four floors or part thereof	Cum	520.00	259.60	134992.00	NITR,SL NO-44
				TOTAL	14414467.46	
C	SHUTTERING/CENTERING					
1	Centering and shuttering including struting propping etc and removal of forms for:					
(A)	Foundations footing bases of column etc for mass concrete	Sq.M	3370.00	110.23	371475.10	NITR,SL NO-45
(B)	Lintels beams plinth beams girders bressumers and cantilevers.	Sq.M	4787.00	145.75	697705.25	NITR,SL NO-48
(C)	Columns Pillars piers Abutment Posts and strutts	Sq.M	3191.00	213.01	679714.91	NITR,SL NO-49
(D)	Stair (Excluding landing except spiral Staircases	Sq.M	1595.00	268.27	427890.65	NITR,SL NO-50
(E)	Extra for shuttering in circular work	Sq.M	488.00	0.20	97.60	NITR,SL NO-52
(F)	Weather shades, Chajja, Corbels etc including edges	Sq.M	1595.00	333.64	532155.80	NITR,SL NO-53
2	centering and shuttering including strutting proping etc and removal of form work for:					
	suspended floors, roofs, landing balconies and access platform with water proof ply of 12mm thick	Sq.M	7978.00	325.89	2599950.42	NITR,SL NO-54

3	centering and shuttering including strutting proping etc and removal of form work for:					
	suspended floors, roofs, landing balconies and access platform with water proof ply of 12mm thick	Sq.M	15955.00	89.22	1423505.10	NITR,SL NO-57
4	Providing precast cement concrete slab 1:2:4 (1 cement : 2sand: 4 Coarse aggregate 6mm nominal size) reinforced with 6mm dia mild steel including cenetring abd shuttering roughening and cleaning fixing and finishing in cement mortar 1:3(1 cement: 3 sand) etc complete excluding plastering of jambs sills and soffits.					
	50mm thick precast slab	Sq.M	491.00	707.76	347510.16	NITR,SL NO-59(a)
	25mm thick precast slab	Sq.M	255.00	505.55	128915.25	NITR,SL NO-59(b)
	Providing and placing reinforcement for R.C.C. work including straightining cutting bending placing in position and binding allcomplete.					
	Thermo Mechanically Treated Bars	Kg	370925.00	64.01	23742909.25	NITR,SL NO-60
				TOTAL	30951829.49	
D	BRICK WORK					
1	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1cement: 6 Sand)	Cum	1847.00	2963.50	5473584.50	NITR,SL NO-65
2	Half brick masonry with FPS bricks of class designation 75 in foundation and plinthin Cement mortar 1:4 (1 cement: 4 sand)	Cum	370.00	371.98	137632.60	NITR,SL NO-68
3	Brick work with F.P.S bricks of class designation 75 in Super structure above plinth levell upto V floor level in all shapes and size in Cement mortar 1:6 (1cement: 6 sand)	Cum	1255.00	3318.10	4164215.50	NITR,SL NO-70
4	Half brick masonry with FPS bricks of class designation 75 in superstructure and plinth in Cement mortar 1:4 (1 cement: 4 sand) above plinth level.	Sq.M	3843.00	410.09	1575975.87	NITR,SL NO-73
5	Extra for providing and placing in position 2 Nos 6mm dia M.S.Bars at every third layer of half brick work (With F.P.S bricks)	Sq.M	3843.00	75.73	291030.39	NITR,SL NO-74

6	Extra for brick work in superstructure above floor V level for each four floors or part thereof by Mechanical mean by lifting materials by mobile crane.	Cum	1245.00	207.10	257839.50	NITR,SL NO-75
7	Supplying and construction Fly ash cement bricks(23cmx11cmx7.5cm) work at any location using best of compressive strength not less than 75 Kg/ sqcm as defined in IS 1077 in cement sand mortar (1:6) in foundation, superstructure, main hole, duct, drain etc. including fiar cutting, wastage, bounding, plumbing line level, flushing, racking joint, scaffolding and curing all as per drg. and as per direction of the Engineer in charge, with all material, tools, plant, labour complete. all up to floor V level					
(a)	At all depth up to plinth level	Cum	500.00	2725.58	1362790.00	NITR/PW/WO/CT/14 13/14 Dt-06.06.12 Item 2(Brick Work)
(b)	b At all heights above finished plinth level up to floor V level	Cum	1500.00	3060.00	4590000.00	NITR/PW/WO/CT/14 13/14 Dt-06.06.12 Item 2(Brick Work)
				TOTAL	17853068.36	
E	MARBLE WORK					

1	Providing and fixing of 18mm thick gang saw cut mirror polished (pre moulded and pre polished) machine cut for kitchen platform vanity counters window sill facials and similar location of trequired size of approved shade colour and texture laid over 20mm thick base cement mortar 1:4 with joints treated with white cement mixed with matching pigment epoxy touch ups including rubbingcuring moulding and polishing to edges to give high gloss finish etc complete at all levels					
	Granite of any colourmirror polished and machine cut edge area of slab upto 0.5Sq.M	Sqm	10.00	2288.32	22883.20	NITR,SL NO-87(a)
2	Mirror polishing on marble work /grinite work stone work where ever required give high gkloss finish complete	Sqm	225.00	73.76	16596.00	NITR,SL NO-90
				TOTAL	39479.20	
F	WOOD WORK/P.V.C					
1	Providing and fixing 35 mm thick flush door shutter with ISI marked non decorative type with solid block board construction with frame of first class hard wood and well matched, commercial veneering on both faces of shutter finished as per grains and cross bands on face veneers bonded with phenol formaldehyde synthetic resin on both faces of shutter finished as per specifications mentioned (Drawing) with teak wood lipping of 6 mm thick. (Excluding the cost of fittings.) (GREEN /KIT/MAYUR/EQUIVALENT)					
	35mm thick includig ISI marked stainless steel butt hinges with necessary screws.	Sq.M	489.00	1628.02	796101.78	NITR,SL NO-119(b)
2	Providing and fixing of curtain rods of 1.25mm thick chromium plated brass pipe with two chromium plated brass brackets fixed with CP brass screws and wooden plugs etc whenever necessary complete:					
	20mm dia	RM	254.00	373.02	94747.08	NITR,SL NO-131

3	Providing and fixing of curtain rods of 1.25mm thick chromium plated MS pipe with two chromium plated MS brackets fixed with CP brass screws and wooden plugs etc whenever necessary complete:					
	20mm dia (heavy type)	RM	562	96.16	54041.92	NITR,SL NO-132
4	Providing and fixing of M.S grills of required pattern in frames of windows etc. with M.S flats, Square or round bar etc all complete					
	Fixed to steel window by welding	Kg	9220.00	74.22	684308.40	NITR,SL NO-133
5	Providing and fixing factory made UPVC door frame made of UPVC extruded , section having an overall dimension , as below (tolerence +/- 1mm) with wall thickness 2.0 +/- 0.2mm. Corners of the door frame to be jointed with galvanized brackets and stainless steel screws, jointed and mitred and plastic wilded. the hinge side vericalof the frames reinforced by galvanised m.S tube of size 19x19mm and 1mm +/- 0.1 mm wall thick ness and 3 nos stainless steel hinges fixed to the frame complete aas per manufacture specification and direction of Engineer in charge.					
	Extruded section Profile size 42x50mm	RM	115.00	449.19	51656.85	NITR,SL NO-138

6	Providing and fixing to existing door frames 25mm thick PVC flush door shutters upto 737 mm width of colour and shade as approved by Engineer in Charge made out of one piece multi chamber extruded PVC section of the size of 762x25mm or less as per requirement with an average wall thickness of 1mm +/- 0.3mm . PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm . An Ms tube having dimensions 19x19mm is inserted along the hinges side of the door core of the door shutter should be filled with high density polyurethene foam. The top and bottom edges of the shutter are covered with an end cap of the size 25x11mm . door shutter shall be reinforced with special polymeric reinforcement as per manufacture specification and drawing to take up necessary hardware and fixtures . Stickers indicating the location of hardware will be pasted at appropriate places	Sqm	76.00	2228.99	169403.24	NITR,SL NO-141
7	Providing and fixing of aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour or shades with necessary screw etc complete:					
a	300x10mm	Each	234.00	188.53	44116.02	NITR,SL NO-177(a)
b	250x10mm	Each	75.00	150.20	11265.00	NITR,SL NO-177(b)
c	150x10mm	Each	320.00	97.19	31100.80	NITR,SL NO-177(d)
8	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour or shade with nuts and screw etc . Complete:					
a	300x16mm	Each	316.00	173.12	54705.92	NITR,SL NO-178(a)

9	Providing and fixing aluminum hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc complete:					
b	Double rubber stopper	Each	575.00	80.16	46092.00	NITR,SL NO-180(b)
10	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC10 as per IS 1868) transparent or dyed to required colour or shade with necessary screw etc. complete:					
a	125mm	Each	475.00	84.51	40142.25	NITR,SL NO-179(a)
b	100mm	Each	350.00	78.60	27510.00	NITR,SL NO-179(b)
11	Providing and fixing IS 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc complete:					
a	125x64x2.50mm	Each	300.00	41.78	12534.00	NITR,SL NO-158(a)
b	100x60x2.50mm	Each	350.00	33.18	11613.00	NITR,SL NO-158(b)
12	Extra for providing lipping with 2nd class teak wood battens 25mm minimumu depth on all edges of shutters (over all area of the door shutter to be measuered) flush door decorative and non decorative type	RM	1200.00	290.38	348456.00	NITR,SL NO-123
13	Cleaning the roof top surface , terrace, portico etc by scraping the fungus/algae if any and cleaning the garbages at all height by brooming the top surface before monsoon and disposal the same to the dumping ground as directed by Engineer in Charge	Sqm	2350.00	25.96	61006.00	NITR,SL NO-626
14	Providing and laying screed concrete on the top of the roof in 1:2:4 (1 cement :2 sand : 4 stone chips 10mm down gauge) with water proofing admixture Conforming to IS:2645, and crack resistance fibre like RECRON 3S or equivalent with slope of 1 in 100 and necessary hollering as per direction of Engineer- in-charge. (minimum thickness of 75mm)	Sqm	2350.00	315.88	742318.00	NITR,SL NO-613

15	Providing and constructing brick drain as per standard slope and design with a layer of 10 cm thick and 75 cm. wide cement concrete 1:4:8 and K.B. Brick work in cement mortar (1:6), 23 cm. width on either side with depth 7.5 cm to 30cm including cement plaster(1:6) with cement punning. (section of Drain 250x300 mm) etc complete in all respect as per direction of Engineer In charge.	RM	350.00	748.37	261929.50	NITR,SL NO-616
				TOTAL	2746945.98	
G	STEEL WORK					
1	Structural steel work riveted, bolted or welded in built up sections , trusses and framed work including cutting hoisting fixing in position and applying a priming coat of approved steel primer all complete.	Kg	4525.00	54.05	244576.25	NITR,SL NO-188
2	Providing and fixing 1mm thick M.S sheet door with frame of 40x40x6mm angle iron and 3mm M.S gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.					
	Using M.S angle 40x40x6 mm for diagonal braces	Sqm	50.00	2050.38	102519.00	NITR,SL NO-190
3	Providing and fixing 1mm thick M.S sheet door with frame of 40x40x6mm angle iron and 3mm M.S gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.					
	Using M.S flats 30x6 mm for diagonal braces	Sqm	620.00	1950.35	1209217.00	NITR,SL NO-191

4	Providing and fixing pressed steel door frames conforming to IS 4351 manufactured from commercial mild steel sheet of 1.25mm thickness including hinges, jambs, lock jamb, bead and if required angle threshold of mild steel angle section of 50x25mm or base tie of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike -plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer in charge:					
	Profile B/Profile C	RM	2045.00	345.58	706711.10	NITR,SL NO-196(a)
5	Providing and fixing of M.S fan clamps of type I or II of 16mm dia MS bar bent to shape with hooked ends in RCC slabs, beams during laying including painting the exposed portion of loop, all as per standard design complete.	Each	530.00	91.90	48707.00	NITR,SL NO-200
6	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing , balcony railing and staircases railing including applying priming coat of approved steel primer					
	Stainless steel Tube of 302/202 grade	RM	11372.00	1303.95	14828519.40	NITR,SL NO-211

7	Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, (as per IS 1038 with Z or L section)joints mitred and welded with 15x3 mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10 CM of 1:3:6 (1 cement: 3 Sand: 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screw or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer, excluding the cost of metal beading and including other fitting (stay ,handle),necessary hinges or Pivots as required.	Sqm.	551.00	1927.21	1061892.71	NITR,SL NO-209
8	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing , balcony railing and staircases railing including applying priming coat of approved steel primer					
	MS tube	RM	559.00	310.99	173843.41	NITR,SL NO-207
				TOTAL	18375985.87	
H	FLOORING					
1	Brick flat soaling with bricks of class designation 75 including sand for filling complete with F.P.S bricks	Sqm.	2015.00	198.56	400098.40	NITR,SL NO-214(b)
2	cement concrete flooring 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) finished with a floating coat of neat cement including cement slurry , but excluding the cost of nosing of steps etc. complete					
	40mm thick with 20mm nominal size stone aggregate	Sqm.	250.00	237.98	59495.00	NITR,SL NO-215
3	cement plaster skirting (Upto 30CM height) with cement mortar 1:3 (1 cement : 3 Sand) finished with floating coat of neat cement.					
	18mm thick	Sqm.	487.00	189.16	92120.92	NITR,SL NO-216
4	Providing and fixing glass strips in joints of terrazo/ cement concrete floors					

	40mm wide and 4 mm thick	RM	2964.00	37.89	112305.96	NITR,SL NO-222
5	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with :					
	Raj nagar White marble	Sqm.	328.00	1166.38	382572.64	NITR,SL NO-229
6	Kota stone slab flooring over 20mm average thick base laid and joined with greycement 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 sand)					
	25mm thick	Sqm.	3020.00	970.73	2931604.60	NITR,SL NO-234
7	Kota stone slab 25mm thick in riser of steps skirting dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement : 3 sand) and joined with greycement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete					
	25mm thick	Sq.M	250.00	917.30	229325.00	NITR,SL NO-235
8	Extra for Prefinished nosing in in treads of steps of kota stone/ sand stone slab	RM	905.00	43.21	39105.05	NITR,SL NO-236
9	Extra for Kota stone / sand stone in treads of steps and risers using length upto 1.05mt	Sq.M	250.00	8.36	2090.00	NITR,SL NO-237
10	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture of approved make in all colours shade except burgundy, bottle green , black of any size as approved by engineer in Charge in skirting , risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 sand) and jointing with grey cement slurry @3.3 kg per Sq.M including pointing in white cement mixed	Sq.M	1552.00	735.92	1142147.84	NITR,SL NO-238

	with pigment of matching shade complete					
11	Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours such as white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	345.00	802.67	276921.15	NITR,SL NO-239
12	Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colours shade laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.					
	Sizes of Tile 50x50xCm	Sq.M	2200.00	938.20	2064040.00	NITR,SL NO-243
13	Providing and fixing 1st quality ceramic glazed wall tiles (Boarder tiles) conforming to IS 15622 (thickness to be specified by the manufacture of approved make in all colours shade with printed series of any size as approved by engineer in Charge in skirting , risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 sand) and jointing with grey cement slurry @3.3 kg per Sq.M including pointing in white cement mixed with pigment of matching shade complete	RM	155.00	60.61	9394.55	NITR,SL NO-249

14	Providing and laying 8mm thick chequered design tiles for steps riser (ANTI SKID designer) floor tiles (Ultra/pavit/Durocon) 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours shade except white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete.	Sq.M	350.00	828.73	290055.50	NITR,SL NO-250(b)
15	Chequered precast cement concrete tiles 22mm thick DESIGNER TILE (ULTRA/ DUROCON/ EQUIVALENT) in foot path and courtyard jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 sand)					
	Ordinary cement without any pigment	Sq.M	2500.00	605.21	1513025.00	NITR,SL NO-250©
16	Providing fixing and laying 60mm thick (spectra/ultra or equivalent) hydraulic compressed precast interlocking block of I spectra or any other approved shape with approved colour size over 100mm thick layer including excavation and filling upto desired level and spreading fine seal over pared blocks and compacting including cost of material transporting to the site unloading stacking etc all complete.	Sq.M	1100.00	976.24	1073864.00	Analysis
				TOTAL	10618165.61	
I	SANITARY WORKS					
1	Providing and fixing Soil, waste and vent pipes (SAND CAST IRON (S&S) PIPE as per IS 1729					
(a)	100mm dia	RM	135.00	482.70	65164.50	NITR,SL NO-437(a)
(b)	150mm dia	RM	61.00	868.86	53000.46	NITR,SL NO-437(c)
2	Providing and fixing bend of required degree with access door , insertion rubber washer 3mm thick					

	, Bolts and nuts complete					
	100mm dia	Each	11.00	726.54	7991.94	NITR,SL NO-440(a)
	150mm dia	Each	13.00	1426.93	18550.09	NITR,SL NO-440(c)
3	Providing and fixing plain bend of required degree Centrifugal Cast Iron as per IS -3989					
	100mm dia	Each	11.00	503.53	5538.83	NITR,SL NO-442(a)
	150mm dia	Each	7.00	828.75	5801.25	NITR,SL NO-442(c)
4	Providing and fixing plain bend of required degree Centrifugal Cast Iron as per IS -3989					
	100mm dia	Each	35.00	503.53	17623.55	NITR,SL NO-442(a)
5	Providing and fixing double equal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete Sand Cast Iron (S&S) as per IS - 1729					
	100x100x100x100mm dia	Each	33.00	712.60	23515.80	NITR,SL NO-446(a)
6	Providing and fixing PTMT Fittings as per approved quality and colour as per the direction of Engineer in Charge.					
	PTMT robe hook	Each	20.00	100.25	2005.00	NITR,SL NO-457(a)
7	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :Sand Cast Iron (S&S) as per IS - 1729					
	100mm inlet 100mm outlet	Each	10.00	1004.41	10044.10	NITR,SL NO-473(a)
8	Providing lead caulked joints to sand cast iron/ Centrifugally cast (Spun) iron pipes and fittings of diameter					

	100mm dia	Each	233.00	318.66	74247.78	NITR,SL NO-475(a)
9	Cutting chases in brick masonry walls for following diameter sand cast iron /centrifugally cast iron pipes and making good the same with cement concrete 1::6 (1 cement:3 sand: 6 graded stone aggregate) including necessary plaster and pointing in cement mortar 1:4 (1 cement: 4 Sand)					
	100mm dia	Each	101.00	176.10	17786.10	NITR,SL NO-476(a)
10	Supplying and fixing and fittings of PVC pipes of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
	110mm dia Pipes	Rm	595.00	302.61	180052.95	NITR,SL NO-478(a)
11	Supplying and fixing and fittings of PVC door bend of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
	110mm dia Pipes	Each	55.00	222.66	12246.30	NITR,SL NO-479(a)
12	Supplying and fixing and fittings of PVC plain bend of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
	110mm dia Pipes	Each	55.00	187.81	10329.55	NITR,SL NO-480(a)
13	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete	Each	38.00	1057.20	40173.60	NITR,SL NO-429
14	Providing and fixing PTMT Fittings as per approved quality and colour as per the direction of Engineer in Charge.					
	PTMT robe hook	Each	15.00	100.25	1503.75	NITR,SL NO-547(a)

15	Providing and fixing of CP towel rail complete with brackcket fixed to wooden cleats with CVp bras screw with concealed arrangement of approved make and brand and quality : 600mm x20mm dia CP Brass	Each	280.00	516.81	144706.80	NITR,SL NO-433
16	Providing and fixing Soil, waste and vent pipes (Centrifugally cast iron PIPE as per IS 3989					
	100mm dia	Rm	110.00	677.74	74551.40	NITR,SL NO-438(a)
17	Providing and fixing bend of required degree with access door , insertion rubber washer 3mm thick , Boltsand nuts complete Sand cast iron (S& S) pipe as per IS 1729					
	100mm dia	Each	17.00	726.54	12351.18	NITR,SL NO-440(a)
18	Providing and fixing water closet squatting pan (Indian type W.C.Pan) with 100mm sand cast iron Por S trap , 10litr low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fitings and fixtures complete including cutting and making good the walls and floors where ever required :					
	White Vitreous china orissa pattern W.C pan of size 580x440mm with integral type foot rests.	Each	40.00	3469.19	138767.6	NITR,SL NO-401
19	Providing and fixing white vitreous china pedestral type water closet s(European typeW.C.Pan)with seat lid, 10litr low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fitings and fixtures complete including cutting and making good the walls and floors where ever required :					
	W.C.Pan with ISI marked White solid plastic seatand lid	Each	5.00	3701.49	18507.45	NITR,SL NO-402

20	Providing and fixing White vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and G.I clamps complete including painting of Fittings and brackets cutting and making good the walls and floors wherever required:					
	One urinal basin with 5litre white P.V.C automatic flushing cistern.	Each	13.00	3062.24	39809.12	NITR,SL NO-403
21	Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm Cpbrass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
	White vitreous china wash basin size 550x400mm withsingle 15mm CP Brass	Each	43.00	2206.91	94897.13	NITR,SL NO-406(c)
22	Providing and fixing Soil, waste and vent pipes (SAND CAST IRON (S&S) PIPE as per IS 1729					
	75mm dia	Rm	13.00	372.56	4843.28	NITR,SL NO-437(b)
23	Providing and fixing bend of required degree with access door , insertion rubber washer 3mm thick , Boltsand nuts complete					
	75mm dia	Each	25.00	458.55	11463.75	NITR,SL NO-440(b)
24	Providing and fixing plain bend of required degree Centrifugal Cast Iron as per IS -3989					
	75mm dia	Each	9.00	314.52	2830.68	NITR,SL NO-442(b)
25	Supplying and fixing and fittins of PVC pipes of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
(a)	110mm dia Pipes	Rm	121.00	302.61	36615.81	NITR,SL NO-478(a)

(b)	75mm dia pipes	Rm	15.00	189.62	2844.30	NITR,SL NO-478(b)
26	Supplying and fixing and fittins of PVC door bend of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
(a)	110mm dia Pipes	Each	29.00	222.66	6457.14	NITR,SL NO-479(a)
27	Supplying and fixing and fittins of PVC plain bend of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
(a)	110mm dia Pipes	Each	55.00	187.81	10329.55	NITR,SL NO-480(a)
(b)	75mm dia pipes	Each	11.00	136.71	1503.81	NITR,SL NO-480(b)
28	Supplying and fixing and fittins of PVC Por S trap of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
(a)	110mm inlet and 110mm outlet dia trap	Each	9.00	394.21	3547.89	NITR,SL NO-481(a)
©	110mm inlet and 75mm outlet dia nihani trap	Each	73.00	204.96	14962.08	NITR,SL NO-481(c)
29	Supplying and fixing and fittins of PVC required degree junction or plain junction with access door of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					
(a)	110mm dia Pipes	Each	33.00	237.45	7835.85	NITR,SL NO-482(a)
(b)	75mm dia pipes	Each	6.00	169.85	1019.10	NITR,SL NO-482(b)
30	Supplying and fixing and fittins of PVC vent cowl of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge.					

	110mm dia Pipes	Each	5.00	66.10	330.50	NITR,SL NO-484(a)
31	Providing and fixing double equal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete Sand Cast Iron (S&S) as per IS - 1729					
	75x75x75x75mm dia	Each	5.00	448.10	2240.50	NITR,SL NO-446(b)
32	Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm Cpbrass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
	White vitreous china wash basin size 550x400mm with single 15mm CP Brass	Each	280.00	2206.91	617934.80	NITR,SL NO-406(c)
33	Providing and fixing of 100mm sand cast iron garting for gully trap	Each	280.00	39.68	11110.40	NITR,SL NO-428
34	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete	Each	280.00	1057.20	296016.00	NITR,SL NO-429
35	Providing and fixing of CP towel rail complete with brackcket fixed to wooden cleats with CVp bras screw with concealed arrangement of approved make and brand and quality : 600mm x20mm dia CP Brass	Each	39.00	516.81	20155.59	NITR,SL NO-433
36	Providing and fixing Soil, waste and vent pipes (Centrifugally cast iron PIPE as per IS 3989					
	100mm dia	Rm	110.00	677.74	74551.40	NITR,SL NO-438(a)
37	Providing and fixing bend of required degree with access door , insertion rubber washer 3mm thick , Boltsand nuts complete Sand cast iron (S& S) pipe as per IS 1729					
	100mm dia	Each	17.00	726.54	12351.18	NITR,SL NO-440(a)
				TOTAL	2208109.84	
J	FINISHING WORK					

1	15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork	Sq.M	6847	84.69	579872.43	NITR,SL NO-280
2	20mm cement plaster of mix 1:6 (1 cement: 6 Sand)	Sq.M	7485.00	102.34	766014.90	NITR,SL NO-282
3	18mm cement plaster in two coats under layer of 12mm thick cement plaster 1:5 (1 cement:5 sand) and a top layer of 6mm thick cement plaster 1:3 (1 cement:3 sand) finished rough with spounge	Sq.M	10731.00	127.36	1366700.16	NITR,SL NO-287
4	6mm cement plaster of mix 1:4 (1 cement: 4 Sand)	Sq.M	6881.00	62.59	430681.79	NITR,SL NO-289
5	Neat cement Punning	Sq.M	985.00	25.04	24664.40	NITR,SL NO-290
6	Providing and finishing wall surface with acrylic wall care putty (water based) of approved make (Birla or Equivalent) and finished smooth and even surface to receive painting including cost of scaffolding staging charges with all cost of materials taxes labour T&P etc complete	Sq.M	8354.00	105.79	883769.66	NITR,SL NO-294
7	White washing with KATNI lime to give an even shade					
	New work (Three or more coat	Sq.M	10810.00	10.01	108208.10	NITR,SL NO-299(a)
8	Distempering with 1st quality acrylic distemper (readymade) of approved manufacture and of required shade and colour complete, as per manufacturer's specification.					
	New Work(Two or more coats)	Sq.M	8355.00	32.73	273459.15	NITR,SL NO-303
9	Applying one coat of cement primer of approved brand and manufacturer on wall surface					
	Cement primer	Sq.M	20700.00	26.91	557037.00	NITR,SL NO-304
10	Finishing walls with premium acrylic smooth extrior paint with silicone additive of required shade					
	New work (two or more coat applied @1.43kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M	Sq.M	10375.00	69.05	716393.75	NITR,SL NO-308
11	Applying priming coat with ready mixed Pink or gray primer of approved brand and manufacturer on Wood work (Hard and soft Wood)	Sq.M	1100.00	25.33	27863.00	NITR,SL NO-310

12	Applying priming coat with ready red oxide zinc cromate primer of approved brand and manufacturer on steel galvanised iron/ stell works.	Sq.M	2285.00	23.36	53377.60	NITR,SL NO-312
13	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:					
	Two or more coats on new work	Sq.M	4300.00	48.96	210528.00	NITR,SL NO-316
14	Painting with acid proof paint of approved brand and manufacture to give an even shade:					
	Two or more coats on new work	Sq.M	175.00	48.20	8435.00	NITR,SL NO-318
15	Lettering with black japan paint of approved brand and manufacture	1 letter of 1 Cm Height	6041.00	1.43	8638.63	NITR,SL NO-324
				TOTAL	6015643.57	
K	REPAIR TO BUILDING					
1	Renewing glass panes with Putty and nails wherever necessary:					
	Float glass panes of thickness 4mm	Sq.M	30.00	690.57	20717.10	NITR,SL NO-332(a)
				TOTAL	20717.10	
L	DISMANTLING					
1	Demolishing cement concrete manually/ by mechanical means including disposal of materials with in 50mtr lead as per direction of Engineer inCharge.					
	Cement concrete 1:3:6 or richer Mix	Cum	50.00	405.36	20268.00	NITR,SL NO-356(a)
2	Demolishing stone rubble masonry manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge					
	In cement Mortar	Cum	15.00	408.14	6122.10	NITR,SL NO-361
3	Dismantling R.C.C. work, including stacking of steel bars and disposal of unservicable amterials within 50mtr lead as per direction of Engineer incharge.	Cum	25.00	591.38	14784.50	NITR,SL NO-357

4	Demolishing brickwork manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials with in 50mtr lead as per direction of Engineer in Charge	Cum	35.00	342.07	11972.45	NITR,SL NO-360
5	Dismantling old plaster or skirting racking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead	Sq.M	350.00	8.99	3146.50	NITR,SL NO-385
				TOTAL	56293.55	
M	DRAINAGE					
1	Providing and laying and jointing glazed stone ware pipes grade A with stiff mixture of cement mortar 1:1 (1 cement: 1 sand) including testing of joints etc complete.					
	150mm dia	Rm	267.00	507.21	135425.07	NITR,SL NO-561(a)
2	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse aggregate: 10 graded stone aggregate) upto haunches SW pipes including bed concrete as per standard design:					
	150mm dia	Rm	254.00	321.85	81749.9	NITR,SL NO-563(a)
3	Providing and fixing square mouth S.W gully trap grade A complete with C.I grating brick masonry chamber with water tight C.I cover with frame of 300x300 mm size (Inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design:					
	180x150mm size P type with F.P.S bricks class designation 75	Each	11.00	1873.90	20612.9	NITR,SL NO-564
4	Providing and laying non pressure NP2 class (light duty) R.C.C pipes with collars jointed with Stiff mixture of cement mortar in proportion of 1:2 (1 cement: 2 sand) including testing of joints etc complete					
	300mm dia R.C.C pipe	Rm	25.00	866.65	21666.25	NITR,SL NO-566©

5	Constructing brick masonry man hole in cement mortar 1:4 (1 cement: 4 sand) R.C.C. top slab with 1:2:4 (1cement : 2 sand: 4 coarse aggregate), Foundation concrete 1:4:8 (1 cement : 4sand: 8 coarse aggreahte) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 sand) finished with floating coat of neat cement punning and making channel in cement concrete 1:2:4 (1 cement: 2 sand: 4 coarse aggregate) finished with floating coat of of neat cement punning complete as per standard design :					
	Inside size of 90x80cm and deep 45Cm including R.C.C Precast 50mm thick cover (455x610mm internal dimension of opening) with FPS bricks class designation 75	Each	27.00	4562.49	123187.23	NITR,SL NO-567
6	Constructing brick masonry man hole in cement mortar 1:4 (1 cement: 4 sand) R.C.C. top slab with 1:2:4 (1cement : 2 sand: 4 coarse aggregate), Foundation concrete 1:4:8 (1 cement : 4sand: 8 coarse aggreahte) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 sand) finished with floating coat of neat cement punning and making channel in cement concrete 1:2:4 (1 cement: 2 sand: 4 coarse aggregate) finished with floating coat of of neat cement punning complete as per standard design :					
	Inside size of 120x90 cm and deep 90Cm including R.C.C Precast 50mm thick cover (50mm diameter internal dimension of opening) with FPS bricks class designation 75	Each	5.00	7914.41	39572.05	NITR,SL NO-568
7	making soakpit 2.5mtr diametr 3.0mtr deep with 45x45cm dry brick honey comb shaft with bricks of class designation 75 and SW drain pipe 100mm diameter 1.8mtr long complete as per standard design. (with 75mm thick R.C.C precast cover slab)					
	With F.P.S bricks	Each	2.00	19712.33	39424.66	NITR,SL NO-575
				TOTAL	461638.06	
N	ALUMINIUM WORK					

1	<p>Providing and fixing aluminium work for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene flt etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (glazing and panelling to be paid separately):</p>					
	For fixed Portion	Kg	125.00	515.08	64385.00	NITR,SL NO-578(a)
2	<p>Providing and fixing aluminium work half glazed with 5.0mm thick glass pane and half poanelled with prelaminated particle board (Nova board) as per IS 12823 grade 1 type II in panelling for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in</p>					

	Sq.M)					
	For Fixed portion only	Sqm.	26.00	4860.73	126378.98	NITR,SL NO-590(a)
3	Providing and fixing aluminium work half glazed with 5.0mm thick glass pane and half poanelled with prelaminated particle board (Nova board) as per IS 12823 grade 1 type II in panelling for doors and windows ventilators and partitions with extruded builtup standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at jinction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as					

	hinges handle and beading etc all are included and measured in Sq.M)					
	For shutters of doors , windows & ventilators including providing and fixing of hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required	Sq.m.	34.00	6729.69	228809.46	NITR,SL NO-591(a)

4	Providing and fixing aluminium work Fully glazed with 5.0mm thick glass pane for Sliding windows ventilators (Subframe) (anodised transparent or dyed to required shade according to IS 1868 minimum anodic coating of grade AC15) subframe for windows and ventilators with extruded builtup standard tubular sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plugs and stainless steel screws etc.with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at junction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles , Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M)	Sqm.	65.00	3817.68	248149.20	NITR,SL NO-595
				TOTAL	667722.64	
O	WATER SUPPLY					
1	Making connection of G.I distribution branch with G.I main of follwing sizes by providing and fixing tees including cutting and threading the pipes etc. complete					
	25to 40mm nominal bore	Each	5.00	291.93	1459.65	NITR,SL NO-493(a)
2	Providing and fixing of Brass fittings for Water supplyu connection as per approved quality and direction of Engineer in Charge.					
(a)	25mm dia gunmetal gate valve	Each	5.00	825.58	4127.90	NITR,SL NO-495(a)
(b)	40mm gunmetal gate valve	Each	6.00	1676.65	10059.90	NITR,SL NO-495(c)
©	50mm dia gunmetal gate valve	Each	34.00	2514.44	85490.96	NITR,SL NO-495(d)

3	Providing and fixing of chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes fittings with one CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge (External Work)					
	100mm Nominal bore	Rm	212.00	2320.06	491852.72	NITR,SL NO-488(i)
4	Providing and fixing of G.I pipes complete with G.I fittings and clamps including cutting and making good the walls etc. Internal work (Exposed on wall)					
(a)	25mm nominal bore	Rm	160.00	350.98	56156.80	NITR,SL NO-489(c)
(b)	32mm dia nominal bore	Rm	51.00	403.73	20590.23	NITR,SL NO-489(d)
©	40mm nominal bore	Rm	25.00	462.21	11555.25	NITR,SL NO-489(e)
(d)	50mm nominal bore	Rm	255.00	608.45	155154.75	NITR,SL NO-489(f)
5	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall					
(a)	15mm nominal bore	Rm	401.00	283.40	113643.40	NITR,SL NO-490(a)
(b)	20mm nominal bore	Rm	78.00	315.03	24572.34	NITR,SL NO-490(b)
©	25mm nominal bore	Rm	175.00	404.77	70834.75	NITR,SL NO-490(c)
6	Providing and fixing of CP Brass Fittings conforming to IS 8931 as per approved quality and direction of Engineer in Charge.					
	15mm dia Bib cock	Each	61.00	663.88	40496.68	NITR,SL NO-501
7	Providing and fixing of CP Brass Fittings conforming to IS 8931 as per approved quality and direction of Engineer in Charge.					
	15mm dia Stop cock	Each	193.00	663.88	128128.84	NITR,SL NO-502

8	Providing and fixing of CP Brass Fittings conforming to IS 8931 as per approved quality and direction of Engineer in Charge.					
	15mm to 20mm dia CP brass shower rose with Arm (100mm dia)	Each	39.00	937.05	36544.95	NITR,SL NO-512
9	Providing and fixing of CP Brass Fittings conforming to IS 8931 as per approved quality and direction of Engineer in Charge.					
	15mm to 20mm dia CP brass shower rose with Arm (150mm dia)	Each	39.00	1054.71	41133.69	NITR,SL NO-513
10	Providing and fixing PTMT Fittings as per approved quality and colour as per the direction of Engineer in Charge.					
	PTMT grating (100 to 150mm dia)	Each	101.00	86.14	8700.14	NITR,SL NO-523
11	Providing and placing on terrace (at all floor levels) polythelene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlets outlet and overflow pipe but without fittings and the base support for the tank	Ltr.	25000.00	7.01	175250.00	NITR,SL NO-529
12	Providing and fixing PTMT ball cock of approved quality, colour and make complete with epoxy coated aluminum rod with L.P./H.P.H.D plastic ball					
	PTMT Ball cock 25mm bore, 152mm long weighing not less than 440 Gms	Each	10.00	560.12	5601.20	NITR,SL NO-525(b)
				TOTAL	1481354.15	
P	ROOFING					
1	Extra for Providing and fixing wind tie of 40x6 mm flat iron Section	Rm	263.00	94.49	24850.87	NITR,SL NO-259

2	Providing and fixing of UV stabilised fibre glass reinforced plastic sheet roofing up to any pitch including fixing with polymer coated J or L hooks bolts and nuts 8mm dia G.I plain /Bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. the sheets shall be manufactured out of 2400TEX panel rovigis incorporating minimum 0.3% Ultra-Violet stabiliser in resin system under approximately 2400 psi and hot cured,. they shall be of uniform pigmentation and thickness with out air pockets and shall conform to IS 10192 and IS 1286, the sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.					
	2mm thick corrugated (2.5" or 4.2" or 6") or stepdown (2" or 3" or 6") as specified.	Sqm.	345.00	878.26	302999.70	NITR,SL NO-270
				TOTAL	327850.57	
Q	NON SCHEDULE					
1	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roof,balconies,terrace etc consisting of following operation:					NITR/PW/WO/CT/14/12- Dt:06.06.12
(a)	Applying a slurry coat of neat cement using 2.75kg /sqm. Of cement admixed with water proffing compound conforming to IS. 2645 and approved by Engineer -in-charge. Over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.					

(b)	Laying brick bats with mortar using broken bricks / brick bats 25mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS. 2645 and over 20mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS. 2645 and approved by Engineer -in - charge to required slope and treating similarly the adjoining walls upto 300mm height including rounding of junctions of walls and slabs					
©	After two days of proper curing applying a second coat of cement slurry using 2.75 kg / sqm. Of cement admixed with water proffing compound conforming to IS. 2645 and approved by Engineer-in -charge.					
(d)	Finishing the surfase with 20mm thick jointless cement mortar of mix 1:4 (1 cement : 4course sand) admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge including laying glass fiber cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300mm square 3mm deep.					
e	Finishing the surfase with 20mm thick jointless cement mortar of mix 1:4 (1 cement : 4course sand) admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge including laying glass fiber cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300mm square 3mm deep.	Sqm.	1500.00	826.06	1239090.00	NITR/PW/WO/CT/14/12- Dt.06.06.12

2	Providing and Filling the Expansion joint with joint sealing compound on polyurethane based or equivalent including a backup material like Thermocole/Celatex board inside the groove of expansion joints. The width to depth ratio of sealant should be 2:1	Rm	110.00	1370.72	150779.20	NITR/PW/WO/CT/14/12- Dt.06.06.12
3	Providing and fixing of sheet covering over expansion joints with iron screw as per design to match the colour /shade of wall treatment Aluminium fluted strips 3.15mm thicks 200mm wide.	Rm	85.00	567.34	48223.90	NITR/PW/WO/CT/14/12- Dt.06.06.12
4	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C ,kitchen and the like consisting of.					
(i)	Ist course of applying cement slurry @ 4.4kg/sqm mixed with water proffing compound conforming to IS.2645 in recommended proportions including rounding off junction of vertical and horizontal surface.					
(ii)	IInd course of 20mm cement plaster 1:3 (1 cement :3 course sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.					
(iii)	IIIrd course of applying blown or residual bitumen applied hot at 1.7Kg per sqm of area					
(iv)	4th course of 400 micron thick PVC sheet.(Overlaps at joints of PVC sheet should be 100mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm	Sqm.	775.00	419.65	325228.75	W.O.- NITR/PW/WO/CT/14/12- Dt.06.06.12
5	Supplying and filling sunken slabs at all floors and all levels with furnace coal ash complete as per direction of Engineer -in - charge.	Sqm.	120.00	729.35	87522.00	W.O.- NITR/PW/WO/CT/14/12- Dt.06.06.12

6	Making khurras 45x45cm with average minimum thickness of 5cm cement concrete 1:2:4 (1 cement : 2coarse sand :4 graded stone aggregate of 20mm nominal size) over P.V.C sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement: 3coarse sand) and a coat of neat cement rounding the edge and making and finishing the outlet complete.	Each	25.00	166.32	4158.00	W.O.- NITR/PW/WO/CT/14/12- Dt.06.06.12
	Notes-All the water profing work should be carried out through specilised application agency)					
				TOTAL	1855001.85	

**NAME OF THE WORK:-PROPOSED EXTENSION OF HOMI BABA HALL OF RESIDENCE AT N
ROURKELA.**

PART-A(CIVIL WORK)

SUMMARY

A	EARTHWORK	884733.95
B	CEMENT CONCRETE	14414467.46
C	SHUTTERING/CENTERING	30951829.49
D	BRICK WORK	17853068.36
E	MARBLE WORK	39479.20
F	WOOD WORK/P.V.C	2746945.98
G	STEEL WORK	18375985.87
H	FLOORING WORK	10618165.61
I	SANITARY	2208109.84
J	FINISHING	6015643.57
K	REPAIRS TO BUILDING	20717.10
L	DISMANTALING	56293.55
M	DRAINAGE	461638.06
N	ALUMINIUM WORK	667722.64
O	WATER SUPPLY	1481354.15
P	ROOFING	327850.57
Q	NON SCHEDULE	1855001.85
	TOTAL PART-A	108979007.25

GRAND SUMMARY	
PART-A(CIVIL WORK)	108979007.25
PART-B(ELECTRICAL WORK)	3665817.00
GRAND TOTAL	112644824.25
Say Rs.11,26,44,824.00	