

Agenda Notes

2013: 1st Meeting

of the

Building & Works Committee

Venue of the Meeting
Conference Hall, PDPM IIITDM, Jabalpur
Date and Time of the Meeting
February 02, 2013 at 15.00 Hrs



PDPM
Indian Institute of Information Technology, Design
and Manufacturing Jabalpur



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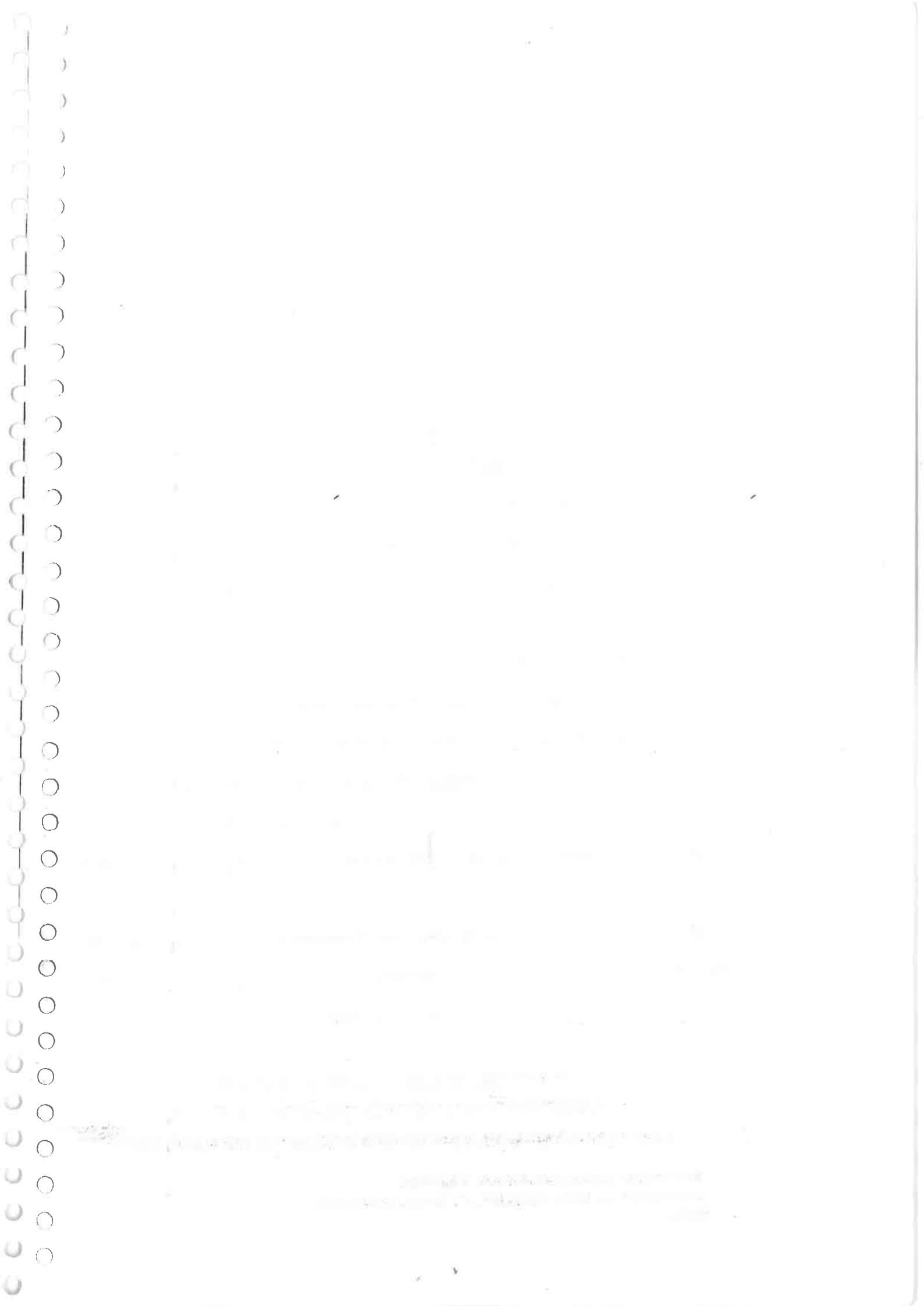
Agenda for the 2013/1st Meeting of Buildings & Works Committee, 2013

to be held on Saturday, February 02, 2013 at 15:00 hrs.

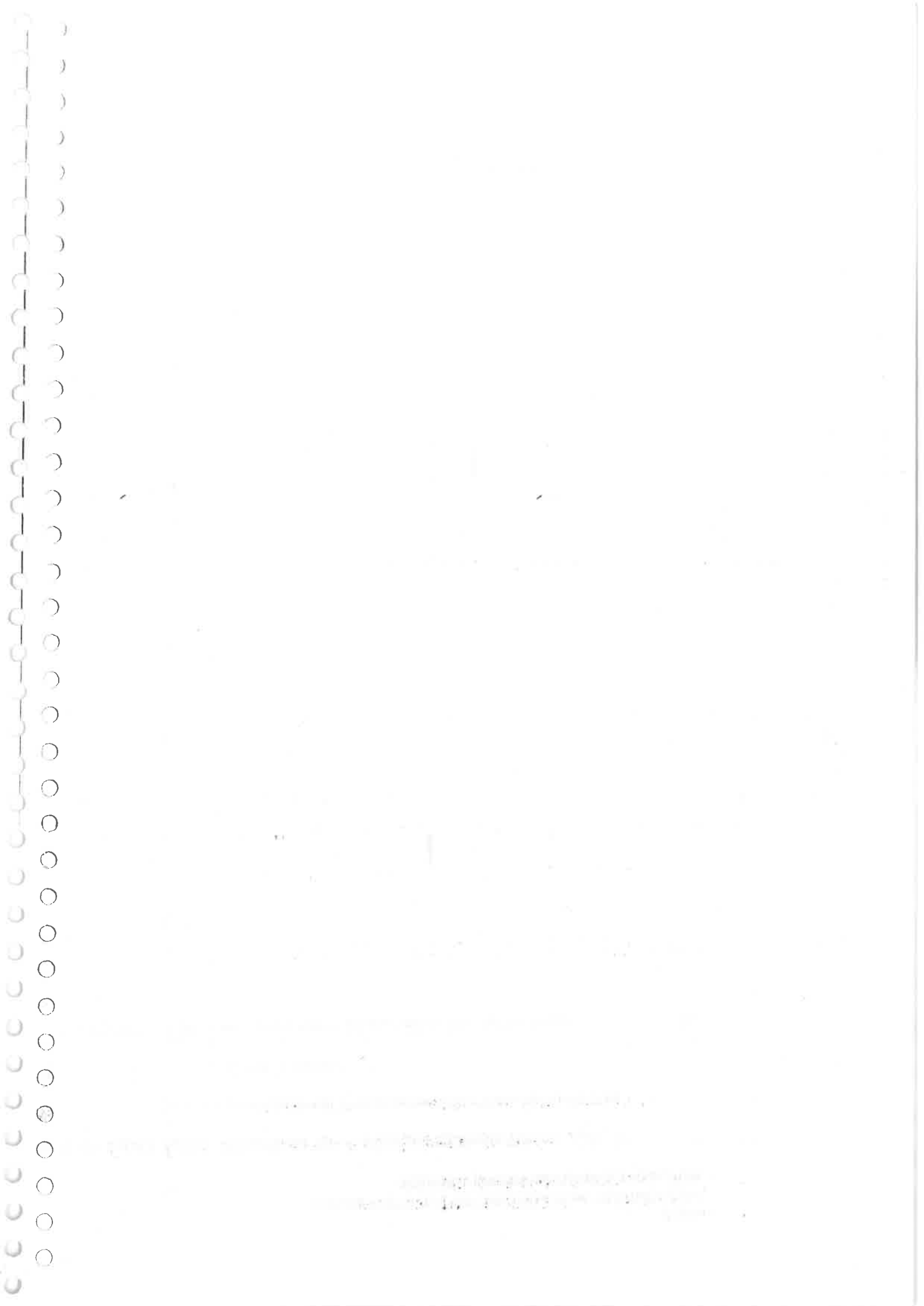
Venue: Conference Hall, PDPM IIITDM, Jabalpur

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B&WC/2013: 1.01 Opening Remarks by the Chairperson

Opening remarks by the Chairperson will be presented in the meeting itself.

B&WC/2013: 1.02 Confirmation of the Minutes of 2012/ 2nd Meeting of the

B&WC held on June 30 2012.

Minutes were circulated after the meeting and a copy of the same is placed

herewith as Annexure B&WC/2013/1/A-1 (page No. 09 to 12). No comments have

been received from the members.

The Building & Works Committee is requested to confirm the same.

B&WC/2012: 1.03 To consider the Preliminary cum Detailed Estimate for the

work of Construction of Basket Ball Court Complex

(Indoor) at PPM-IITDM Jabalpur.

In view to accommodate the provisions as proposed by the consultant M/s Datta and

Datta Associates, Ahmadabad to connect the building with other buildings of Students

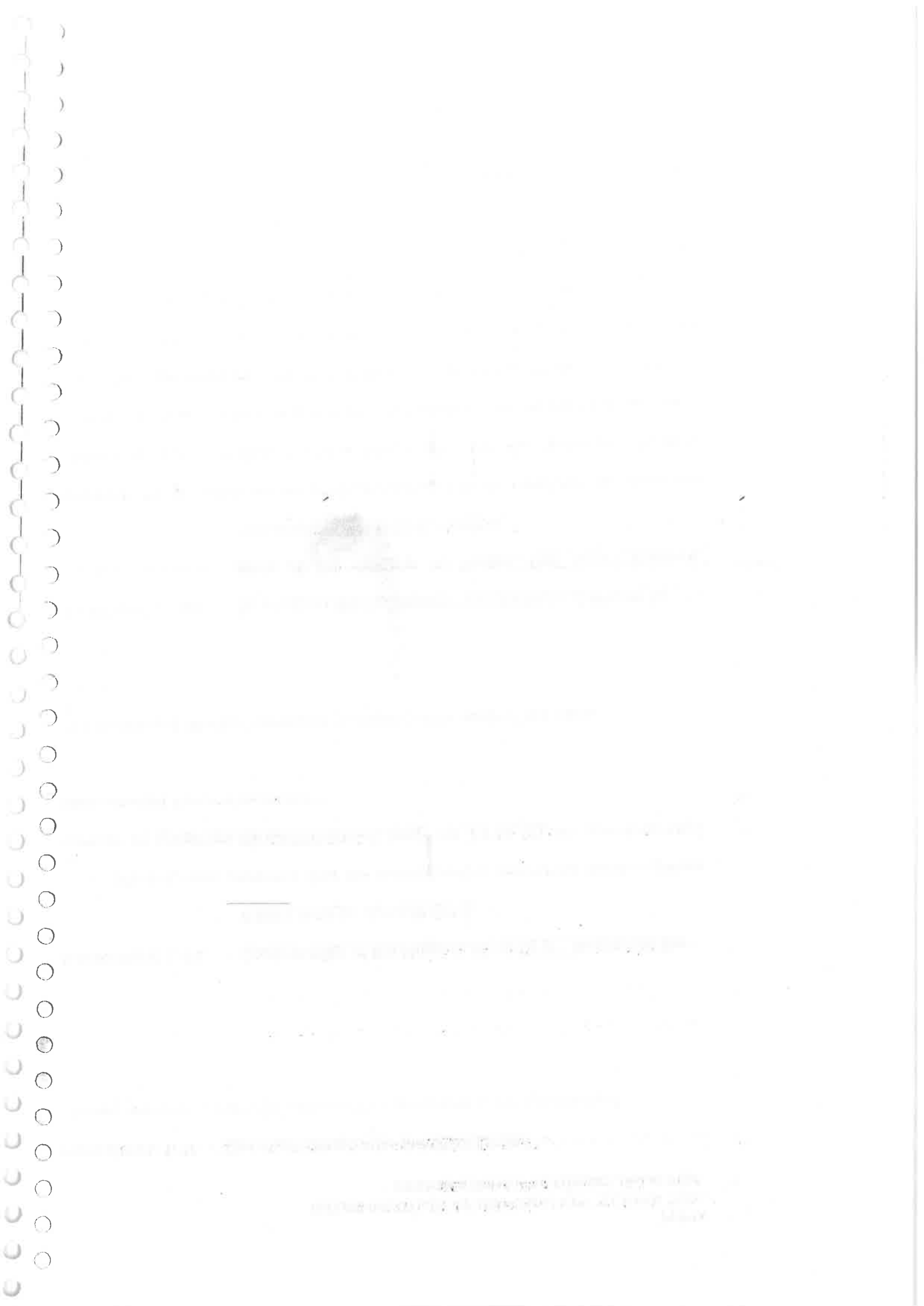
Activity Centre and to provide approach to the building from the front and rear sides,

the CPWD has prepared a Revised Preliminary cum Detailed Estimate for work on

DSR 2012 rates including 3% contingency and 5% (+ service tax) Architect fees, for a

value of Rs.3,97.39 lacs (Three hundred ninety seven point three nine lacs only). The

copy of the estimate prepared by the Executive Engineer(Civil), Jabalpur Project



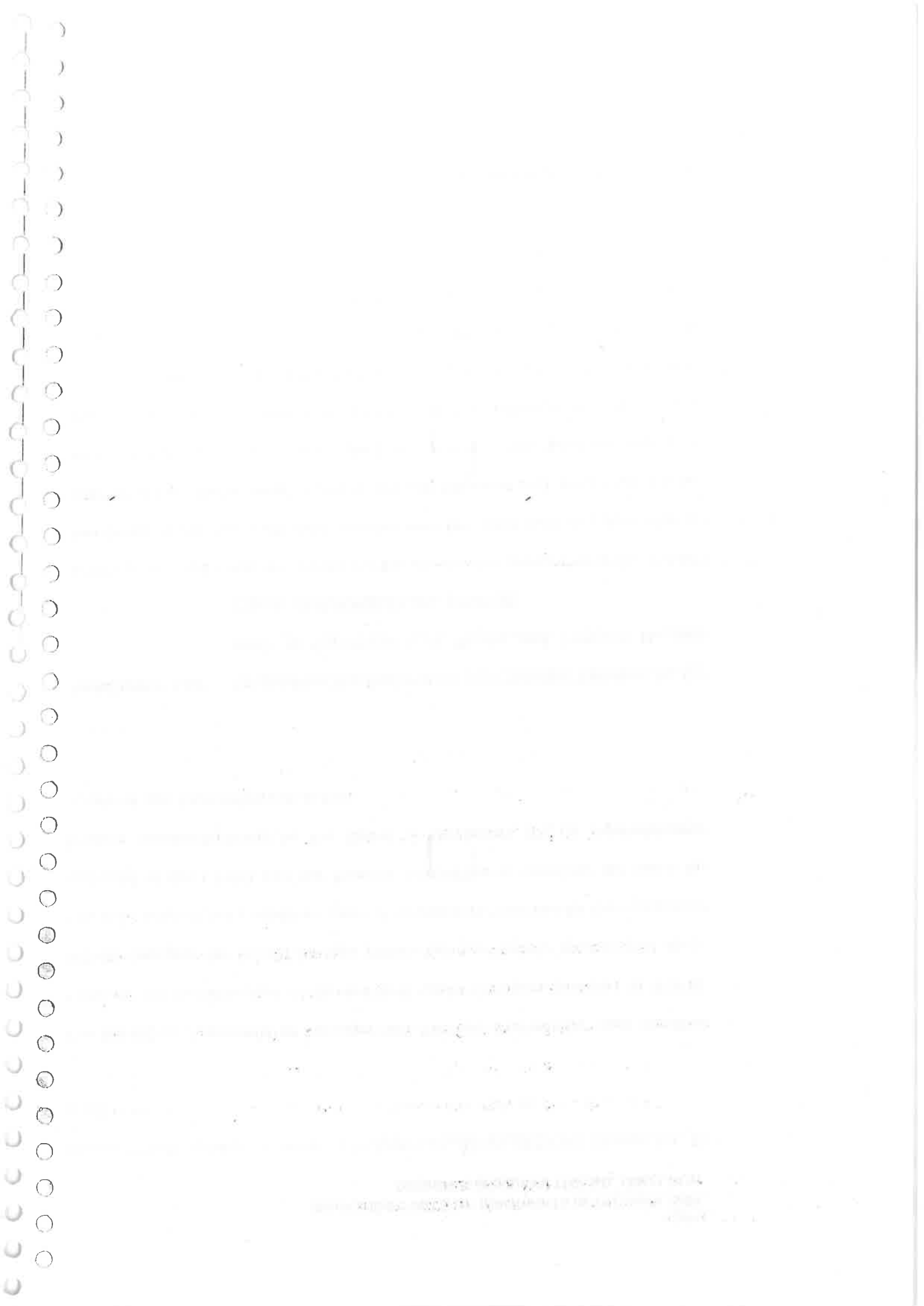
The B&WC is requested to consider the Revised Preliminary cum Detailed Estimate for construction of Basket Ball Court Complex (Indoor) at PDPM-IIITDM, Jabalpur for Rs.397.39 lacs (Three hundred ninety seven point three nine lacs only) or for a modified value of estimate as received for the competent authority of the CPWD and the Finance Committee to consider the same for onward recommendation to the Board of Governors for its Administrative Approval and Expenditure Sanction.

B&WC/2012: 1.04 To consider the Preliminary cum Detailed Estimate for the

work of Construction of Roads and Services Network

Phase - II at PDPM-IIITDM, Jabalpur.

A Preliminary cum Detailed Estimate for the above work, amounting to Rs. 1844.09 lacs (Rupees One thousand eight hundred forty four point zero nine lacs only) on DSR 2012 + market rates, including 3% contingencies and 5% (+ service tax) Architect fees, has been framed by M/s Datta and Datta Associates Ahmadabad. In this estimate, the major roads in the campus including pathways and other services like, street lighting, trenches for data networking, sewer lines, water supply lines, recycled water lines etc. along with major roads, have been taken into account. The copy of the estimate and the key plan showing services considered in this phase is annexed as Annexure B&WC/2013/1/A-3 (page No. 51 to 72). The Estimate has been sent to the CPWD for proof checking.



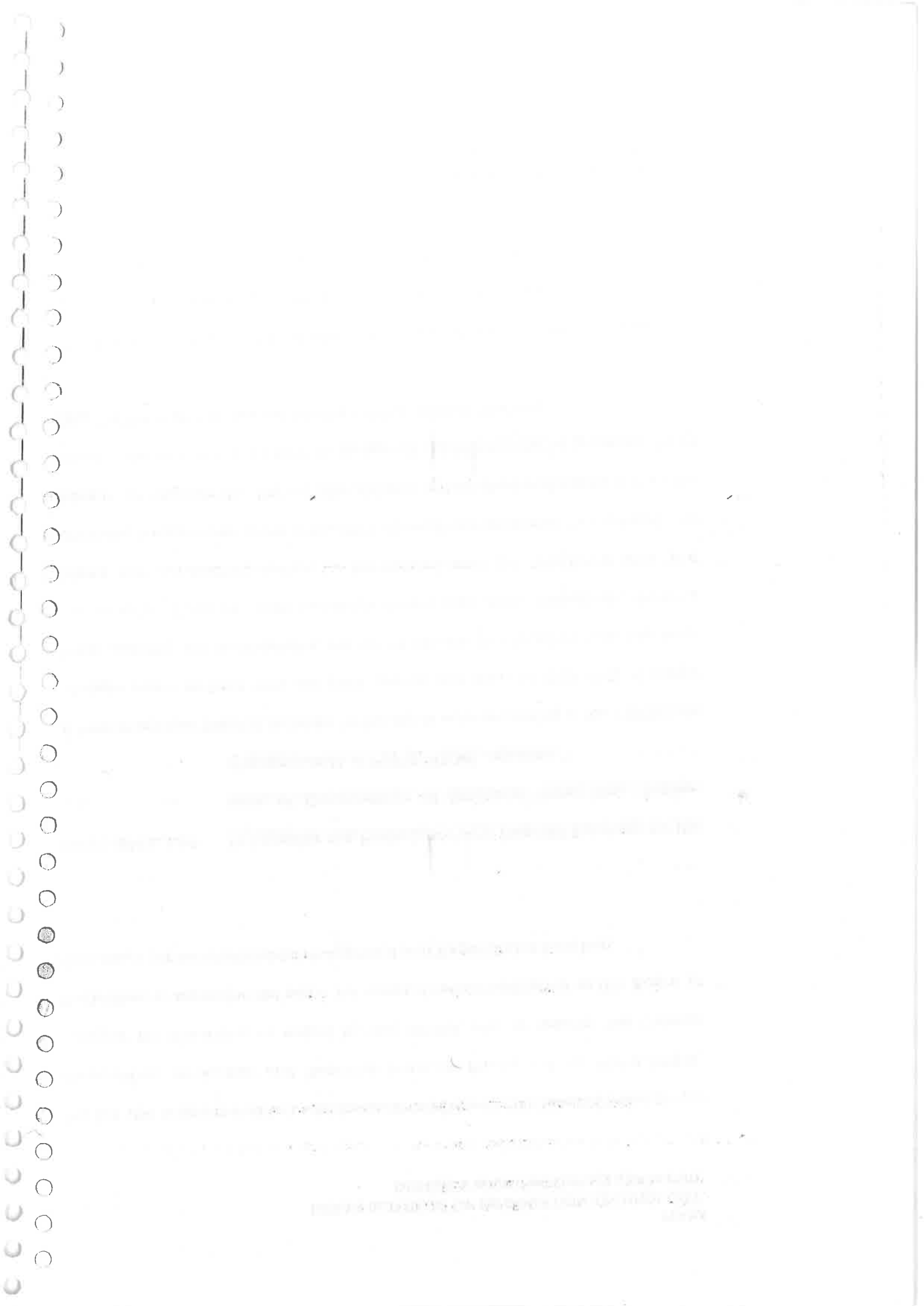
The B & WC is requested to consider the Preliminary cum Detailed Estimate for construction of Roads and Services Network Phase - II at PDPM-IIITDM, Jabalpur for the value as vetted by the CPWD, and to request the Finance Committee to consider the same for onward recommendation to the Board of Governors for its Administrative Approval and Expenditure Sanction.

B&WC/2013: 1.05

To consider the Preliminary cum Detailed Estimate for the work of Construction of Electrical Networking System (Balance work) at PDPM-IIITDM, Jabalpur.

A Preliminary cum Detailed Estimate for the above work amounting to Rs. 732.26 lacs (Rupees seven hundred thirty two point two six lacs only) on DSR 2012 + market rates, including 3% contingencies and 5% (+ service tax) Architect fees, has been framed by M/s Datta and Datta Associates Ahmadabad. In this estimate the electrical supply and management system for the balance area (i.e. Residential area, part academic area and part hostel area) of the campus has been taken into account. The copy of the estimate and the key plan showing HT electrical networking in the area under consideration are annexed as Annexure B&WC/2013/1/A-4 (page No. 73 to 90). The Estimate has been sent to the CPWD for proof checking.

The B & WC is requested to consider the Preliminary cum Detailed Estimate for construction of Electrical Networking System (Balance work) for PDPM-IIITDM, Jabalpur for the value as vetted by the CPWD, and to request the Finance



Committee to consider the same for onward recommendation to the Board of Governors for its Administrative Approval and Expenditure Sanction.

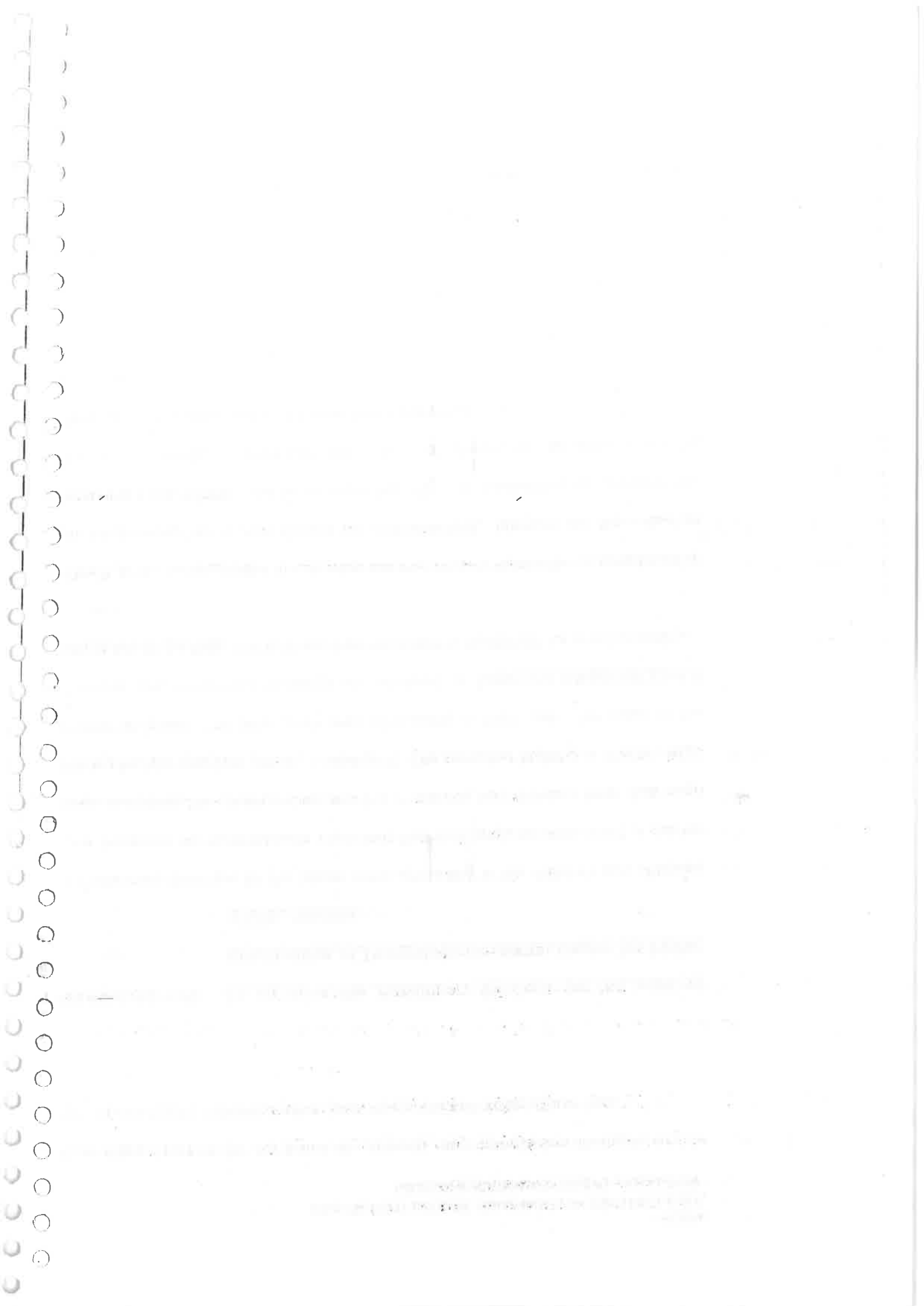
B&WC/2012: 1.06 To consider the Preliminary Estimate for the work of

Construction of Technology Incubation Centre for PDPM-

IIITDM, Jabalpur.

A Preliminary Estimate for the above work amounting to Rs. 1666.45 lacs (Rupees One thousand six hundred sixty four five lacs only) on DSR 2012 + market rates, including 3% contingencies and 5% (+ service tax) Architect fees, has been framed by M/s Architect Atelier, Chandigarh. The proposed building is (G+3) - RCC framed structure. The total plinth area of building is 3307 sqm. The copy of the estimate and Preliminary Drawings are annexed as Annexure B&WC/2013/1/A-5 (page No. 91 to 104). The Estimate has been sent to the CPWD for proof checking.

The B & WC is requested to consider the Preliminary Estimate for construction of Technology Incubation Centre for PDPM-IIITDM, Jabalpur for the value as vetted by the CPWD, and to request the Finance Committee to consider the same for onward recommendation to the Board of Governors for its Administrative Approval and Expenditure Sanction.



B&WC/2013: 1.07

To consider the Preliminary Estimate for the work of

Construction of Multi Utility Centre for PDPM-IIITDM,

Jabalpur.

A Preliminary Estimate for above work amounting to Rs. 1061.55 lacs (Rupees One

thousand sixty one point five five lacs only) on DSR 2012 + market rates, including

3% contingencies and 5% (+ service tax) Architect fees, has been framed by M/s

Architect Atelier, Chandigarh. The proposed building is (G+1) - RCC framed structure.

The total plinth area of the building is 2981 sqm. In the building provisions have been

made for 2 nos. Banks, 1 nos. Post Office, 18 nos. Shops and 3 nos. community

halls. The copy of the estimate and Preliminary Drawings are annexed as Annexure

B&WC/2013/1/A-6 (page No. 105 to 116). The Estimate has been sent to the CPWD

for proof checking.

The B & WC is requested to consider the Preliminary Estimate for construction

of Multi Utility Centre for PDPM-IIITDM, Jabalpur for the value as vetted by the

CPWD, and to request the Finance Committee to consider the same for onward

recommendation to the Board of Governors for its Administrative Approval and

Expenditure Sanction.

B&WC/2013: 1.08

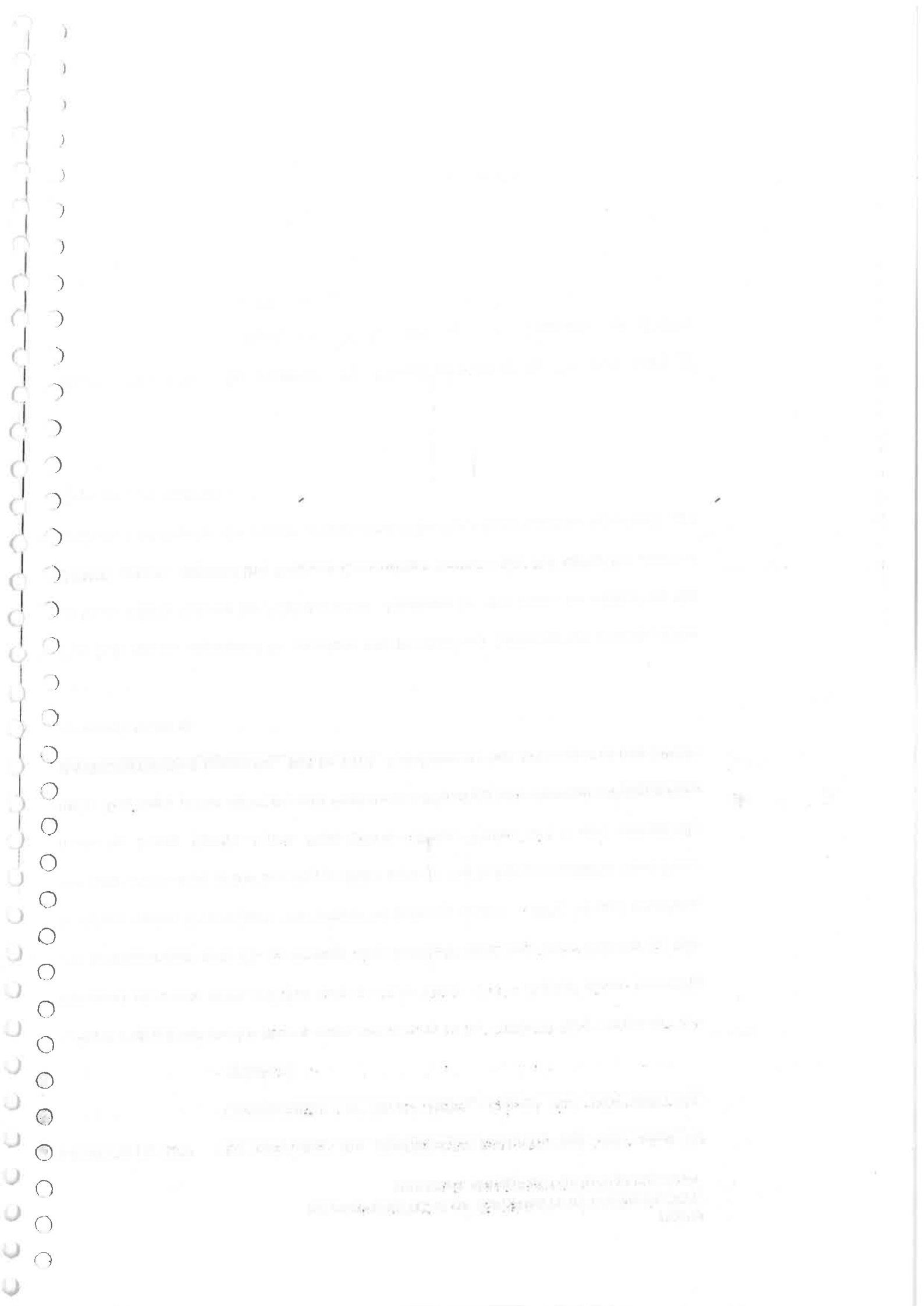
To consider the Preliminary Estimate for the work of

Construction of Professional Lab Complex for PDPM-

IIITDM, Jabalpur

A Preliminary Estimate for the above work amounting to Rs. 5080.82 lacs (Rupees

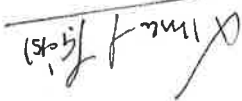
five thousand eighty point eight two lacs only) on DSR 2012 + market rates, including



3% contingencies and 5% (+ service tax) Architect fees, has been framed by M/s Architect Atelier, Chandigarh. The proposed building is (G+7) - RCC framed structure. The total plinth area of the building is 12663 sqm. In the building provisions have been made for 128 nos. faculty offices, 26 nos. professional labs., 01 nos. exhibition hall and 01 nos. cafeteria. The copy of the estimate and Preliminary Drawings are annexed as Annexure B&WC/2013/1/A-7(page No. 117 to 131). The Estimate has been sent to the CPWD for proof checking.

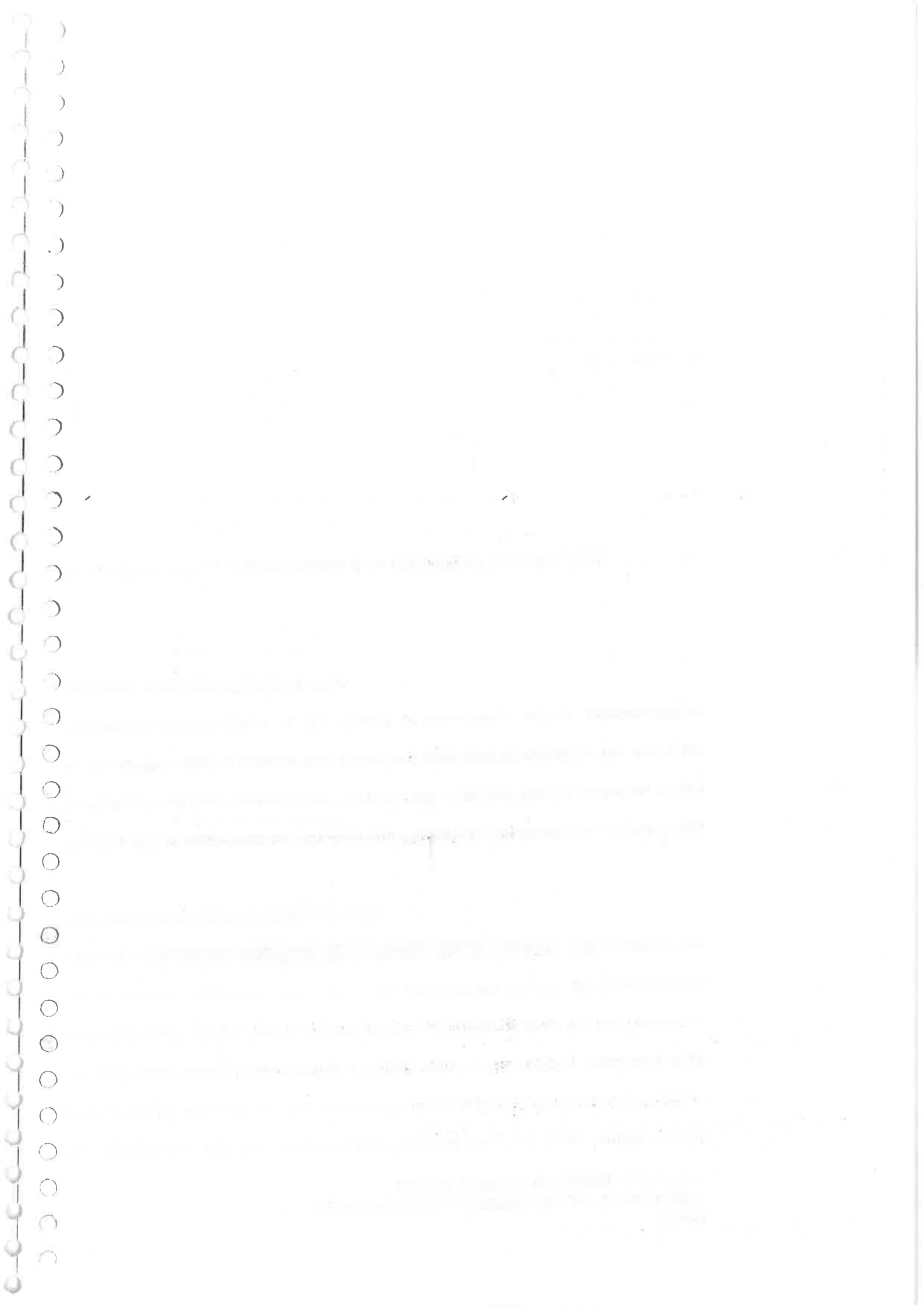
The B & WC is requested to consider the Preliminary Estimate for construction of Professional Lab Complex for PDPM-IITDM, Jabalpur for the value as vetted by the CPWD, and to request the Finance Committee to consider the same for onward recommendation to the Board of Governors for its Administrative Approval and Expenditure Sanction.

B&WC/2013: 1.09 Any other item with the Permission of the Chair



(R. P. Dwivedi)
Officer-In-Charge Estate
Deputy Registrar (F&A)
Secretary, B&WC

Chairperson, B&WC
PDPM-IIT DM Jabalpur



PANDIT DWARKA PRASAD MISHRA
 INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
 DESIGN & MANUFACTURING JABALPUR

Minutes of 2012/2nd Meeting of Building & Works Committee of PDM Indian
 Institute of Information Technology, Design & Manufacturing, Jabalpur held on June
 30, 2012 at 11.00 Hours in Conference Hall of the Institute.

Members Present:

1. Prof. Aparajita Ojha
 Director, PDM-IITDM Jabalpur
 Chairperson
2. Prof. Puneet Tandon
 Dean, Planning and Development
 (PDM-IITDM Jabalpur)
 Member
3. Shri D. K. Pandey, SE,
 MPPKV Co Ltd, Jabalpur
 Member
4. Shri S. B. Pandey, E.E, CPWD
 (Nominee of Shri A. Verma,
 SE, CPWD) Member
5. Dr. Prabir Mukhopadhyay
 (Member CAC, PDM-IITDM Jabalpur)
 Special Invitee
6. Dr. Dinesh Vishwakarma,
 (Member CAC, PDM-IITDM Jabalpur)
 Special Invitee
7. Shri S. Shrivastava, AEE, CPWD, Jabalpur.
 Special Invitee
8. Shri S. S. Pathak, AE, CPWD, Jabalpur
 Special Invitee
9. Shri P. Shukla AE(C), CPWD, Jabalpur
 Special Invitee
10. Shri V. K. Dubey
 (PDM-IITDM Jabalpur)
 Institute Engineer
11. Shri R.P. Dwivedi, Dy. Registrar
 Secretary

Chairperson and the Director of the Institute Prof. Aparajita Ojha welcomed all the members. The Chairperson introduced the nominees of the members and special invitees with the other members of the Committee. She presented a brief overview of the Institute activity and plans for next six months and requested the secretary to proceed with the agenda items.

Opening Remarks by the Chairperson, B&WC

B&WC/2012:02:01

Confirmation of Minutes of 2012/1st meeting of the

Building & Works Committee held on 07 January, 2012.

B&WC/2012:02:02

Minutes of the 2012/1st meeting of B&WC held on January 7, 2012 were confirmed.

To consider the Preliminary Estimate for the work of Construction of Hall of Residence-2 at PDPM IITDM, Jabalpur.

B&WC/2012:02:03

The committee discussed at length the Preliminary Estimate (PE) and Preliminary Drawings of the work as provided by the consultant M/s Convince Ray & Choudhary. The members expressed their satisfaction with the preliminary drawings but observed that the value of estimate is on a higher side. The vetted estimate could not be received from the CPWD. Sh. S.B. Pandey EE(C) CPWD pointed out that some of the components taken in PE may be omitted as they are covered within the basic cost. He stated that there is a possibility of reduction in cost. After deliberations the members opined to consider this estimate after getting it vetted from the CPWD.

The committee deferred this item to next B&WC meeting.

To consider the Revised Preliminary Estimate for the work of Construction of Triple Seated Hall of Residence-1 (renamed as Hall of Residence-3) at PDPM - IITDM, Jabalpur.

B&WC/2012:02:04

The B&WC discussed at length the Revised Preliminary Estimate (RPE). The letter received from the CE(CZ)CPWD, Bhopal regarding the verification of cost index 122% as on 01.01.2010 and the vetted RPE by Sh S.B. Pandey, EE(C), CPWD Bhopal were deliberated. The members also observed the need of RPE so as to settle the final bills for the work. The B&WC approved the RPE for an amount of Rs.2159.23 lacs (Rupees two thousand one thousand fifty nine point two three lacs) with 22% cost index, 1% quality assurance, 1% labour cess, 5% architect fee and 3 % contingency.

The Committee recommends to the Finance Committee to consider the above proposal for onward recommendation to the BOC for Administrative Approval and Expenditure Sanction.

B&WC/2012:02:05
To consider the report of the reconciliation committee constituted to settle the disputes of M/s Kanvinde Rai & Chowdhury.

The report of reconciliation committee was discussed in detail. The Director and the Chairperson, informed the members that this issue had become a major constraint in the progress of development works in the campus. She appreciated the efforts of the Dean, Planning & Development in resolving the issue by creating a mutual consensus among all the three consultants so that any payment being made to M/s KRC against its claims could not cause any repetition of payment of consultancy charges for any particular construction project. The members deliberated the report of reconciliation committee and recommended it for final approval.

The Committee recommends the resolution to the Finance Committee to consider the above proposal for onward recommendation to the BOG for final approval.

B&WC/2012:02:06
Reporting of items.

Administrative and Financial Approval given by Director/ Dean Planning & Development for Construction works taken up at the Institute level between 01.01.12 to 30.05.12 for a amount of Rs.45,99,385/-.

The committed noted the works listed on annexure B&WC/2012/A-5 and taken up at the Institute level with the accord of A/A & E/S by the Director/ Dean Planning & Development of the Institute.

B&WC/2012:02:07
Any Other item with the permission of Chair

The following items were considered by the committee with due permission of the Chair.

B&WC/2012:02:07(a)
To consider the Preliminary Estimate for the work of C/o Multi Utility Centre for PDPM IITDM, Jabalpur.

The estimate as received recently from M/s Architect Atelier and amounting to Rs. 9,05,45,700/- based on DPAR 2007 including 43% cost index, 1% quality assurance, 1% labor case, 5% architect fee and 3 % contingency was discussed in detail. The committee principally agreed with the Preliminary Drawings but the cost of projects was felt on a higher side. Sh S.B. Pandey, EE(C), CPWD pointed and that some of the components taken the PE could be removed as these item are already included in the basic cost. Hence it was decided to send the PE to CPWD for proof checking.

The committee deferred this item to next B&WC meeting.

(Prof. Aparajita Ojha)
Chairperson

2-7-2012

Submitted for Approval please

Deputy Registrar & Secretary
(R. P. Dwivedi)

R. P. Dwivedi

The meeting ended with a vote of thanks to the Chair and other members.

The committee deferred this item to next B&WC meeting.

checking.

The estimate as received recently from M/s Architect Atelier and amounting to Rs.12,94,57,700/- based on DPAR 2007 including 43% cost index, 1% quality assurance, 1% labor case, 5% architect fee and 3 % contingency was discussed in detail. The committee principally agreed with the Preliminary Drawings but the cost of projects was felt on a higher side. Sh S.B. Pandey, EE(C), CPWD pointed and that some of the components taken the PE could be removed as these items are already included in the basic cost. Hence it was decided to send the PE to CPWD for proof

To consider the Preliminary Estimate for the work of C/o
Technology Incubation Centre for PDPM IITDM,
Jabalpur.

B&WC/2012:02:07(b)

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

Division : JPD Jabalpur

State : M.P.
Branch : B&R

Estimate No.: / SE/2012-13.

Name of Work :- Revised P.E. for C/o Basket Ball Court(Indoor) for PDPM, IIT,D&M Jabalpur(M.P.)

Major Head	Minor Head	Detailed Head	Deposit

This revised preliminary estimate has been prepared by Er. R.K. Chaudhary, Executive Engineer, Jabalpur Project Division, CPWD, Jabalpur for the probable cost of Rs. 3,97,39,000/- (Rs. Three Crore Ninety Seven Lacs Thirty Nine Thousand only) including 3% contingencies.

//REPORT//

HISTORY :- This revised preliminary estimate amounting to Rs. 3,97,39,000/- including 3% contingencies has been framed to cover the probable cost of above mentioned work and to obtain revised A/A & E/S of the competent authority. The requisition for RPE has been communicated by the institute vide letter No. IITDM/B&W/2013/01/14 dated 14-01-2013.

The original P.E. amounting to Rs. 2,30,64,000/- (including contingencies) was sent to institute by the Superintending Engineer, BCC, Bhopal vide letter no. 23(175)BCC/2010/2668 dated 26-11-2010. On the basis of original PE the institute has granted A/A & E/S for Rs. 2,19,34,666/- vide letter no. IITDM/B&W/11/04/08 dated 28-04-2011. After receiving A/A & E/S, the work was awarded vide letter no. 54(S22)/EE/BCD-II/2011/2366 dated 08-11-2011 with the tendered amount to Rs. 1,94,56,079/-. During the execution of the work, the original site considered for estimate has been changed and due to additional retaining wall required to construct at the basement of the new site, it has also been decided to construct additional grid of the building. Due to that consultant has issue the modified drawing for the work. Therefore it was noticed that the quantities / items available in the agreement were quite insufficient to complete/ function the Basketball court. Accordingly a number of discussions have been made with the client department, M/s Dutta & Dutta, consultant of the work and the higher authorities and it has been decided to submit RPE. The IITDM has also requested vide letter dated 14-01-2013 (copy enclosed) to submit RPE and continued the work to make the building complete. Accordingly the RPE has been prepared.

DESIGN & SCOPE :- The revised preliminary cum detailed estimate has been framed based on the following architectural / structural drawings, received from Director, PDPM IIT D&M Jabalpur (MP) and developed by Architects Datta Associates on behalf of the PDPM IIT D&M Jabalpur (MP) with suitable modification as per site condition and to complete / function the basket ball court.

Drawings

Drq.No

1. Lower ground floor plan
2. Ground floor plan
3. Upper ground floor plan
4. Entrance foyer top slab with porch slab- sports complex
5. Entrance foyer with porch sports complex
6. View Elevation sports complex
7. Slab over upper ground floor beam & slab detail(+5700)-Basketball Hall
8. Slab over upper ground beam & slab detail -Basket ball Hall
9. Truss detail(+5700) -Basket ball
10. Cabin room slab & water tank detail- Basket Ball
11. Stair detail -Basket Ball
12. Foundation columns for pergola & pergola beam detail -basket ball

SA-W-03
SA-W-03
SA-W-03
EF-DD-01
EF-DD-02
W-05
05-A
05-B
06A
07
08-A
PRG01

Specifications: The work shall be carried out as per CPWD specification 2009 Vol I to II with upto date correction slips.

Rate : Based on Delhi Schedule of Rates 2012 & Market rates.
Rs.3,97,39,000/- (Rs. Three Crore Ninety Seven Lacs Thirty Nine Thousand only including 3% contingencies.

T&P : No special T&P is required.
Land : Available with client department.

W.C. Estt : Will be met out from the of contingencies.

Method : By contract.

Time : 06 months.

Assistant Engineer
JPSD-II CPWD, Jabalpur

Executive Engineer
JPD CPWD Jabalpur

Name of Work: Revised Preliminary estimate for Construction of Basket Ball Court (Indoor) for PDPM, IIT D&M Jabalpur (M.P.)

ABSTRACT OF COST

SUMMARY OF ORIGINAL P.E.

SUMMARY OF REVISED P.E.

S.No.	Description	Amount	Amount	Amount
1	Civil Works	12632525	30543038	2013193
2	Plumbing works	1405536	14038061	32556231
	(A)	701903.05	1220858.663	
3	Electrical works (External service connection @ 5% of (A))		External service connection @ 3.75% of (A)	
4	Electrical works (Internal connections @ 12.5% of (A))	1754757.625	4069528.875	
	Total	16494721.68	37846618.54	0
	Add Cost Index @ 122 Jabalpur	3628838.769		
	(B)	20123560.44	37846618.54	
	Architects Fees @ 5.612% on B	1129334.212	0	
	Add contingencies 3% on B	603706.8133	1135398.556	
	Add labour Cess 1% on B	201235.6044	378466.19	
	Add Quality assurance 1% on B	201235.6044	378466.19	
	Add service tax 4% on B	804942.4177	0	
	Grand Total	23064015.1	39738949.46	

Say Rs. 3,97,39,000/-

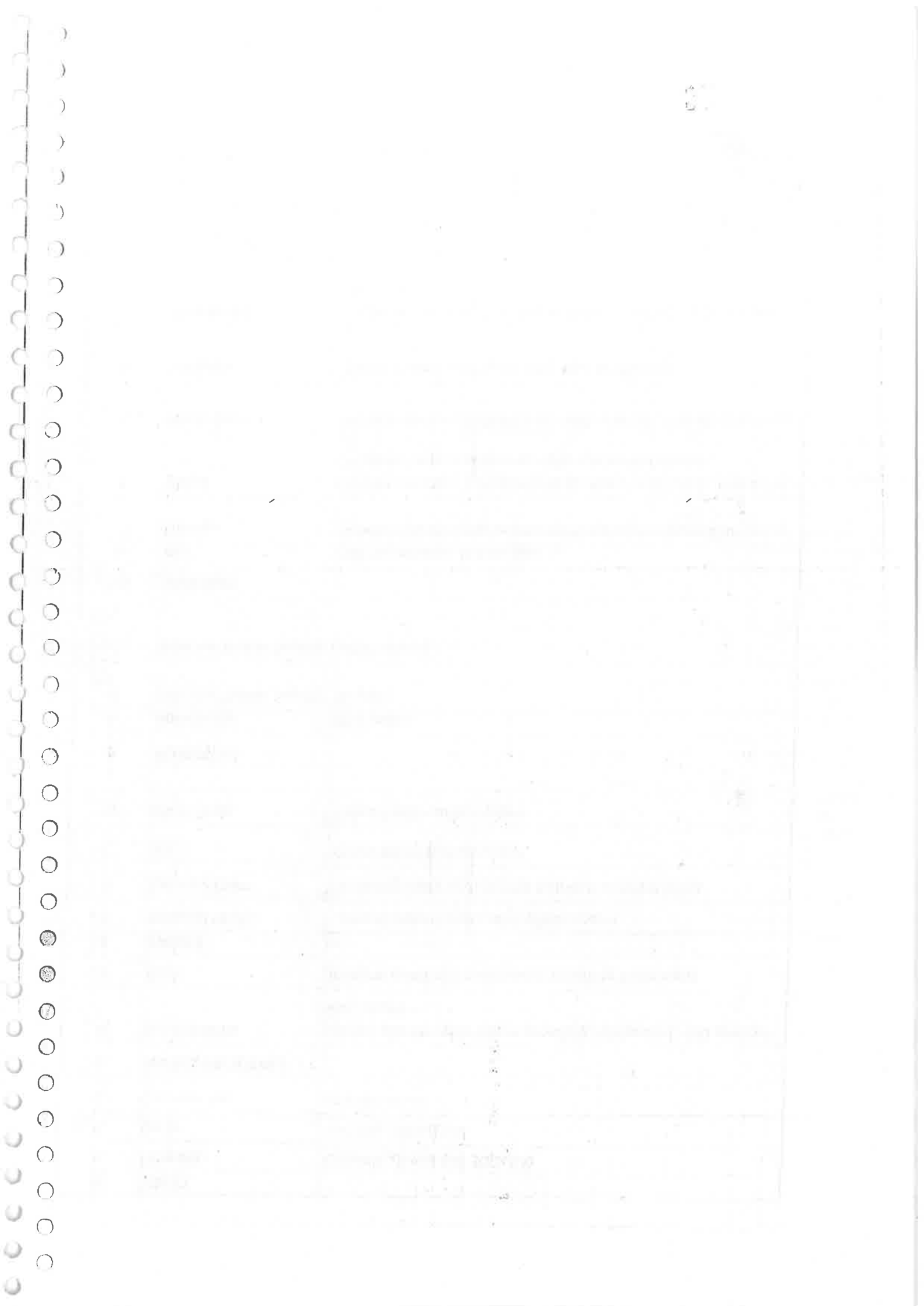
(Rs. Three Crore Ninety Seven Lacs
Thirty Nine only)

Executive Engineer
JPD, CPWD
Jabalpur

Assistant Engineer
JPSD-II, CPWD
Jabalpur

Name of Work: Revised Preliminary estimate for Construction of Basket Ball Court (Indoor) for PDPM, IIT D&M Jabalpur (M.P.)

S.No.	Item	Specifications
1	STRUCTURE	
A	Structure	RCC Frame structure with isolated footing column and retaining wall upto GF. In lower Ground floor RCC Wall. RCC frame structure and steel trusses with precast GI sheet roofing.
B	Brick work	Brick masonry with FPS bricks of CD 35. 230mm /15mm thick brick wall (upto 3.65ht)
C	Inside Plaster	12mm thick(1:6) plaster on wall
D	Ceiling Plaster	6mm tick (1:3) plaster on ceiling
E	Outside Plaster	18 mm thick cement plaster in two coats
2	DOORS	
A	Entrance Door	Aluminium frame & glass shutter with floor spring.
B	Toilet/Pantry/Record Room	PVC door frame and PVC door shutter.
C	Rooms Door	Pressed steel door frames with flush door shutter.
3	WINDOWS AND VENTILATORS	
A	Windows	Anodised aluminium.
B	Ventilation	Aluminium frame with glass louvers.
4	GRILL	
A	Windows	Flats bars or any other sections
5	FLOORING	
A	Basket Ball Hall	CC flooring
B	Rooms	Vitrified tiles 600x600 size.
C	Stair	Kota stone



Original Estimate

Revised Preliminary estimate for Construction of Basket Ball Court(Indoor) for PDPM, IIT D&M Jabalpur (M.P.)

Estimate for Civil Works

S/No	Description	Qty	Unit	Rate	Amount	Original P.E.		Revised P.E.		Remarks
						DSR 2007	Qty Expected	Rate	Amount	
1	EARTH WORK									
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					2				
1.1.1	All kinds of soil	2721	cum	101.85	277134.00	2.61	10223	129.35	1322345.05	2.6.1
1.1A	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. (a) All kinds of soil	0	cum	0.00	0.00	2.8.1	350	130.8	45780	2.8.1
1.2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1405	cum	45.70	64209.00	2.25	2706	83.8	226762.8	2.25
1.3	Extra for every additional lift of 1.5 m or part thereof in.					2.26			0	
1.3.1	All kinds of soil.	1234	cum	18.90	23323.00	2.26.1	3744	34.5	129542.4	2.26.1
1.4	Supplying and filling in plinth with Jamuna sand under floors including watering, ramming consolidating and dressing complete.	50	cum	301.50	15075.00	2.27	100	749.3	74930	2.27
1.5	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.					2.28				2.28
1.5.1	All kinds of soil.	6000	100 sqm	512.10	30726.00	2.28.1	6000	935.25	56115	2.28.1
Sub-Total					410467.00				1855475.25	

Original P.E.				Revised P.E.							
SlNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate	Amount	DSR 2012	Remarks
2	CONCRETE WORK										
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level:					4					
2.1.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	54	cum	2449.00	132246.00	4.1.8	302	3,357.40	1013934.8	4.1.10	Item proposed as per agreement item i.e. PCC 1:5:10
	Sub-Total				132246.00				1013935		
3	REINFORCED CEMENT CONCRETE					5					
3.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level:					5.1					
3.1.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	56	cum	3732.00	208992.00	5.1.2	552	6333.4	3496036.8	5.1.1	Item proposed as per agreement item i.e. RCC 1:1:2
3.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement:					5.2			0		
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	329	cum	4092.35	1346383.00	5.2.2	125	6974.3	871787.5	5.2.1	..do..
3.2.1A	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0	cum	0.00	0.00	5.3	292	7123.65	2080105.8	5.3	Item proposed as per agreement item not included in PE
3.3	Centring and shuttering including strutting, propping etc. and removal of form for:					5.9					

SLNo	Description	Original P.E.					Revised P.E.					Remarks
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate	Amount	DSR 2012		
3.3.1	Foundations, footings, bases of columns, etc. for mass concrete.	200	sqm	119.25	23850.00	5.9.1	200	166.9	33380	5.9.1		
3.3.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	424	sqm	180.40	76490.00	5.9.2	1637	285.15	466790.55	5.9.2	Qty exceeded due to change in scope of work and drawing.	
3.3.3	Suspended floors, roofs, landings, balconies and access platform.	3909	sqm	187.35	732351.00	5.9.3	2000	311.2	622400	5.9.3	Qty estimated as per due to change in scope of work & drawing.	
3.3.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	579	sqm	162.65	94174.00	5.9.5	1081	262.25	283492.25	5.9.5	Qty exceeded due to change in scope of work and drawing.	
3.3.5	Columns, Pillars, Piers, Abutments, Posts and Struts.	575	sqm	238.40	137080.00	5.9.6	1153	365.6	421536.8	5.9.6	..do	
3.3.6	Stairs, (excluding landings) except spiral-staircases.	62	sqm	204.00	12648.00	5.9.7	197	326.3	64281.1	5.9.7	..do.	
3.3.7	Edges of slabs and breaks in floors and walls.					5.9.16			0			
3.3.7.1	Under 20 cm wide	40	metre	61.10	2444.00	5.9.16.1	100	99.45	9945	5.9.16.1	..do..	
3.4	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Up to plinth level.					5.22			0			
3.4.1	Thermo-Mechanically Treated bars.	40051	kg	42.70	1710178.00	5.22.6	47200	62.25	2938200	5.22.6	..do..	
3.4.1A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.								0			

SlNo	Description	Original P.E.			Revised P.E.			Remarks			
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected		Rate	Amount	DSR 2012
3.4.1A.1	Thermo-Mechanically Treated bars.	0	0	0.00	0.00	5.22A.6	59700	62.25	3716325	2.22A.6	Item proposed as per agreement item not included in PE
	Sub-Total				4344590.00				15004280.8		
4	MARBLE WORK					8					
4.1	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	6	each	151.00	906.00	8.5	16	281.1	4497.6	8.5	Qty exceeded due to change in scope of work and drawing.
4.1A	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.								0		
4.1A.1	Raj Nagar Plain white marble/ Ucaipur green marble/ Zebra black marble										
4.1A.1.1	Area of slab over 0.50 sqm	0	sqm	0.00	0.00	8.2.1.2	40	1980.8	79232	8.2.1.2	Item proposed as per agreement item not included in PE
4.2A.1	Granite of any colour end shade								0		

DSR also increased due to change in scope of work.

S/No	Description	Original P.E.			Revised P.E.			Remarks			
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected		Rate	Amount	DSR 2012
4.2.A.1.1	Area of slab over 0.50 sqm	0	sqm	0.00	0.00	8.2.2.2	12	3083.4	37000.5	8.2.2.2	..do..
4.1B	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.								0		
4.1B.1	Granite work.	0	metre			8.3.2	20	178.75	3575	8.3.2	..do..
	Sub-Total				906.00	9			124305.4		
5	WOOD AND P.V.C. WORK					9.20					
5.1	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part 1) 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 veneers on both faces of shutters.										
5.1.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	35	sqm	1473.50	51573.00	9.20.1	43	2159.05	92839.15	9.20.1	Qty exceeded due to change in scope of work and drawings
5.1A	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S including cost of adhesive of approved quality								0		
5.1A.1	1.0 mm thick.	0	sqm				85	596.3	50685.5	9.127.2	Item proposed as per agreement item not included in PE

SLNo	Description	Original P.E.			Revised P.E.			Remarks				
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected		Rate	Amount	DSR 2012	
5.2	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.					9.48						
5.2.1	Fixed to steel windows by welding.	35	kg	59.25	2074.00	9.48.1	2236	90.75	202917	9.48.1		Qty exceeded due to change in scope of work and drawings
5.3	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	22	each	332.65	7318.00	9.76	20	472.25	9445	9.76		
5.4	Providing and fixing IS : 3564 - having brand logo with ISI embossed on the body, door weight upto 35 kg. and door width upto 700mm. Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.	22	each	610.60	13433.00	9.83	20	662.8	13256	9.83		
5.5	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 screws etc. complete.					9.96			0			
5.5.1	250x16 mm	22	each	134.10	2950.00	9.96.2	36	168.95	6082.2	9.96.2		Qty exceeded due to change in scope of work and drawings
5.6	Providing and fixing 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 shade with necessary screws etc. complete.					9.97			0			
5.6.1	300x10 mm	44	each	71.45	3144.00	9.97.1	40	100.4	4016	9.71.1		
5.6.2	200x10 mm	76	each	52.00	3952.00	9.97.3	40	71.05	2842	9.97.3		
5.7	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete.					9.1			0			

SLNO	Description	Original P.E.				Revised P.E.				Remarks	
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate	Amount		DSR 2012
5.7.1	125 mm	44	each	48.80	2147.00	9.100.1	58	62.5	3625	9.100.1	Qty exceeded due to change in scope of work and drawings
5.7.2	100 mm	76	each	35.30	2683.00	9.100.2	50	49.55	2477.5	9.100.2	Drawings
5.8	Providing and fixing aluminium 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					9.101			0		
5.8.1	Twin rubber stopper	9	each	53.90	485.00	9.101.2	20	71.55	1431	9.101.2	Qty exceeded due to change in scope of work and drawings
5.9	Providing and fixing aluminium casement stays 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	14	each	47.55	666.00	9.102	122	62.4	7612.8	9.102	Drawings
5.1	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.	21	metre	353.10	7415.00	9.119	80	404.6	32368	9.119	..do..
5.1.1	Providing and fixing to existing door frames.					9.120					

SLNo	Description	Original P.E.				Revised P.E.			Remarks		
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate		Amount	DSR 2012
5.11.1	30mm thick factory made solid both side Pre-laminated panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5mm thick heat moulded Pre-laminated PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both side Pre-laminated PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge. Manufacturer's specification & drawing (for W.C. and bathroom door shutter).	12	sqm	2580.35	30964.00	9.120.2	25	2958	73950	9.120.2	..do..
	Sub-Total				128804.00	10			503547.15		
6	STEEL WORK					10.14					
6.1	Providing and fixing pressed steel door frames conforming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm 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:	48	metre	251.90	12091.00	10.14.1	122	346.75	42303.5	10.14.1.1	
6.1.1	Profile B										

SLNO	Description	Original P.E.				Revised P.E.				Remarks			
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate	Amount		DSR 2012		
6.2	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.					10.16			0				
6.2.1	Hot finished welded type tubes	33000	kg	61.50	2029500.00	10.16.1	1230	85.1	104673	10.16.1			Item proposed as per agreement item size could vary.
6.2A	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.												
6.2A.1	In trusses, frames, guard bar, ladder, railings, brackets, gates and similar works.	0	Kg	0.00	0.00	10.25.2	33000	77.9	2570700	10.25.2			Item proposed as per agreement item. Item not included in PE
6.3	Providing and fixing M.S. round holding down bolts with nuts and washer plates complete.	5000	kg	52.05	260250.00	10.19	2000	67.8	135600	10.19			
6.4	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.	0	Sqm	0.00	0.00	10.5.1	8	2551.45	20411.6	10.5.1			Item proposed as per agreement
6.5	(a) Lister M.S. angle 40x40x6 mm for diagonal braces Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	0	Each	0.00	0.00	10.18	40	117.45	4698	10.18			Item proposed as per agreement
6.6	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.								0				

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SlNo	Description	Original P.E.			Revised P.E.			Remarks				
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected		Rate	Amount	DSR 2012	
6.6.1	M.S. tube	0	Kg	0.00	0.00	10.26.1	1632	86.45	141086.4	10.26.1	..do..	
7	Sub-Total				2301841.00				3019472.5			
7.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.	0				11						11m increased due to change in slope of work & (up)
7.1.1	40mm thick with 20mm nominal size stone aggregate.					11.3						Then proportions to be after not follow ..do.. P.F.
7.1.A	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.	1404	sqm	192.95	270902.00	11.3.1	1074	280.05	300773.7	11.3.1		
7.1A.1	40 mm wide and 4 mm thick								0			
7.2	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1cement : 5 coarse sand) with joints finished flush.	0	metre	0.00	0.00	11.13.1	1074	29.4	31575.6	11.13.1		
7.2.1	Red sand stone	1404	sqm	309.40	434398.00	11.28.1	0	0	0			
7.3	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	91	sqm	556.60	50651.00	11.36	377	724.25	273042.25	11.36	..do..	
7.4	Providing and laying Ceramic glazed floor tiles 300x300 mm (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 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	138	sqm	598.65	82614.00	11.37	105	764.55	80277.75	11.37	..do..	
7.5	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					11.41			0		..do..	
7.5.1	Size of Tile 60x60 cm	547	sqm	1031.85	564422.00	11.41.2	345	1337.1	461299.5	11.41.2	..do..	

S/NO	Description	Original P.E.			Revised P.E.			Remarks			
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected		Rate	Amount	DSR 2012
7.6	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) :										
7.6.1	25 mm thick	0	sqm	0.00	0.00	11.26.1	1021	945.7	965559.7	11.26.1	..do..
7.7	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.	0	sqm	0.00	0.00	11.27	144	954.1	137390.4	11.27	..do..
7.8	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	0	mt	0.00	0.00	11.31	234	52.45	12273.3	11.34	..do..
	Sub-Total				1402987.00				2262192.2		
8	ROOFING					12					
8.1	Providing corrugated G.S. sheet roofing including vertical/ curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					12.1					
8.1.1	1.00mm thick with zinc coating not less than 275gm/m ²	959	sqm	612.85	587723.00	12.1.1	1255	878.45	1102454.75	12.1.1	
8.2	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete	0		0.00	0.00						
8.2.1	Ridges plain (500 - 600mm)		metre	0.00	0.00	12.51.1	34	620.75	21105.5	12.51.1	
8.2.2	Gutter .(600 mm over all girth)	0	metre	0.00	0.00	12.51.6	67	750.7	50296.9	12.51.6	

SLNo	Description	Original P.E.				Revised P.E.				Remarks	
		Qty	Unit	Rate	Amount	Qty Expected	Rate	Amount	DSR 2012		
8.3	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. (i) Single socketed pipes.										
8.3.1	110 mm diameter	0	metre	0.00	0.00	133	206.9	27517.7	12.41.2	12.41.2	
8.4	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.							0			
8.4.1	Bend 87.5°							0			
8.4.1.1	110 mm bend	0	Each	0.00	0.00	22	156.95	3452.9	12.42.5.2	12.42.5.2	
8.4.2	Shoe (Plain)							0			
8.4.2.1	110 mm Shoe	0	Each	0.00	0.00	22	287.05	6315.1	12.42.6.2	12.42.6.2	
8.5	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.							2416.25	12.46	12.46	
	Sub-Total				587723.00			1213559.1			
9	FINISHING										
9.1	12 mm cement plaster of mix :										
9.1.1	1:6 (1 cement : 6 fine sand)	2833	sqm	67.65	191652.00	1808	112.5	203400	13.1.2	13.1.2	
9.2	15 mm cement plaster on the rough side of single or half brick wall of mix :							0			
9.2.1	1:4 (1 cement : 4 fine sand)	1535	sqm	90.35	138687.00	1808	130.2	235401.6	13.2.1	13.2.2	Item proposed as per agreement Le CP in 1-6
9.3	6 mm cement plaster of mix :							0			
9.3.1	1:3 (1 cement : 3 fine sand)	952	sqm	62.15	59167.00	2600	101	262600	13.16.1	13.16.1	
9.4	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	3775	sqm	47.20	178180.00	0	0	0	0	0	
9.5	Finishing walls with Acrylic Smooth exterior paint of required shade :							0			

SLNO	Description	Original P.E.				Revised P.E.				Remarks	
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate	Amount		DSR 20:2
9.5.1	New work (Two or more coat applied @ 1.67 ttr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	1535	sqm	50.40	77364.00	13.46.1	1617	67.5	109147.5	13.46.1	
9.6	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :					13.48					
9.6.1	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ttr/10 sqm over an under coat of primer applied @ 0.80 ttr/ 10 sqm of approved brand or manufacture	2500	sqm	53.35	133375.00	13.48.3	404	70.4	23441.6	13.48.3	
9.7	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:					13.60		0			
9.7.1	Two or more coats on new work	3775	sqm	40.05	151189.00	13.60.1	5616	60.25	338364	13.60.1	
9.8	18 mm cement plaster in two coats under layer 12 mm thick cementplaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	0	sqm	0.00	0.00	13.12	1617	158.25	255890.25	13.12	
9.9	Providing and applying Ready Mix Birla/J.K.wall care putty @ 2mm thickness , over the plastered wall surface to prepare the surface even and smooth complete.	0	sqm	0.00	0.00	Basedon DSRitem no. 13.80	5616	76.05	427096.8	Basedon DSRitem no. 13.80	
	Sub-Total				929614.00				1860341.75		
10	ALUMINIUM WORK					21					

SlNo	Description	Original P.E.			Revised P.E.			Remarks			
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected		Rate	Amount	DSR 2012
10.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up stancard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including neat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) :					21.1					
10.1.1	For fixed portion.					21.1.1					
10.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	450	kg	290.45	130703.00	21.1.1.1	1600	358.3	573280	21.1.1.1	
10.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					21.1.2			0		
10.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	307	kg	310.45	95308.00	21.1.2.1	1200	406.5	487800	21.1.2.1	
10.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :					21.3			0		
10.2.1	With float glass panes of 5.50 mm thickness	112	sqm	673.55	75438.00	21.3.2	160	905.75	144920	21.3.2	
10.2.2	With float glass panes of 8 mm thickness	0	sqm	0.00	0.00		7.2	1227.8	8840.16	21.3.3	

SLNO	Description	Original P.E.				Revised P.E.				Remarks
		Qty	Unit	Rate	Amount	DSR 2007	Qty Expected	Rate	Amount	
10.3	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 - having brand logo embossed on the body/plate with double spring mechanism and door weight upto 125 kg. for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.					21.4		0		
10.3.1	With stainless steel cover plate - minimum 1.25 mm thickness	4	each	1732.65	6930.60	21.4.1	2	1953.1	3906.2	21.4.1
	Sub-Total				308379.60				1218746.36	
11	WATER PROOFING					22				
11.1	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 ksqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 ksqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	133	sqm	143.85	19132.00	22.5	118	465.45	54923.1	22.5

SLNo	Description	Original P.E.			Revised P.E.			Remarks			
		Qty	Unit	Rate	Amount	Qty Expected	Rate		Amount		
11.2	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.</p> <p>b) Laying brick bats with mortar using broken bricks/brick bats 25 mm 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 approved by Engineer-in-charge over 20 mm 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 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 & approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p>	0	sqm	0.00	0.00	22.7.1	290	786.7	228143	22.7.1	
11.2.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				19132.00				283066.1		
12	HORTICULTURE & LANDSCAPING					23					
12.1	Supplying and stacking of good earth at site including royalty and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).	1500	cum	144.05	216075.00	23.2	1500	260.7	391050	23.2	
	Sub-Total				216075.00				391050		
	Total DSR Item				10782768.00				28749971.6		

SLNO	Description	Original P.E.				Revised P.E.				DSR 2012	Remarks	
		Qty	Unit	Rate	Amount	Qty Expected	Rate	Amount				
	NON SCHEDULE ITEMS											
1	Granite Stone flooring with 18mm thick granite stone flooring in Treads Landing rectangular shapel minimum size of stone should be 0.45 sqm and one dimension not less than 700mm)over 20mm (average) thick base of cement mortar 1:4 (1 cement :4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete.	8	Sqm	3757	30136	0	C	0				
2	18mm thick prepolished granite flooring risers and skirting (upto 30cm height) over 12mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) & jointed with grey cement including pointing with white cement mixed with pigment matching the shade of grainte stone all complete and as directed.	29	Sqm	3741	108489	0	C	0				
3	Brick work with FPS bricks of class designation 35 in superstructure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6 (1 cement :6 coarse sand) complete in all respects as per drawings / specifications and to the entire satisfaction of the Engineer-in-Charge.	475	Cum	3540	1681500	292	3876.15	1131835.8	Based on DSR Item no. 6.4.2			
4	Brick work with F.P.S. bricks of class designation 35 in foundation and plinth in:							0				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	0	Cum	0	0	80	3316.55	265324	Based on DSR Item no. 6.1.2			
5	Half brick masonry with F.P.S. bricks of class designation 35 in superstructure above plinth level up to floor V level.							0				
	Cement mortar 1:4 (1 cement :4 coarse sand)	0	sqm	0	0	200	476.85	95370	Based on DSR Item no. 6.13.2			
6	Providing & fixing double glazed hermetically sealed insulating glass in aluminium doors, windows, ventilators & glazing etc including providing EPDM gasket, perforated aluminium spacers desiccants, silicon, sealants etc ass peer manufacturer's specifications drawings & direction of Engineer-in-Charge. Double insulating glass(6mm thick heat reflective toughened glass + 12 air gap +6mclear float toughened glass)				0							

SLNo	Description	Original P.E.				Revised P.E.				Remarks
		Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	
1	EARTH WORK					2				
1.1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					2.6				
1.1.1	All kinds of soil	15	cum	101.85	1528.00	2.6.1	15	129.35	1940.25	2.6.1
1.2	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					2.10.1				
1.2.1	All kinds of soil	150	metre	115.05	17258.00	2.10.1.2	150	165.6	24840	2.10.1.2
1.2.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	10	cum	45.70	457.00	2.25	10	83.8	838	2.25
1.3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.									
	Sub-Total				19243.00			27618.25		
2	ROOFING					12				
2.1	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	3	each	23.40	70.00	12.44	0	0	0	0
	Sub-Total				70.00			0		

SLNO	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Remarks
3	SANITARY INSTALLATIONS					17					
3.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm same cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:					17.1					Qty exceeded due to change in scope of work and drawing.
3.1.1	White Vitreous china Crissa pattern W.C. pan of size 580x440mm with integral type foot rests.	8	each	2304.65	18437.00	17.1.1	16	2964.1	47425.6	17.1.1	
3.2	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors					17.4					
3.2.1	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern.	16	each	4491.60	71866.00	17.4.3	4	6229.9	24919.6	17.4.3	Qty estimated as per due to change in scope of work & drawing
3.2.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	0	each	0.00		17.4.2	4	4,652.80	18611.2	17.4.2	Item proposed as per agreement item . Item not included in
3.3	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					17.7					

SLNO	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 20...	R	Mark
3.3.1	White Vitreous China Wash basin size 550X400 mm with a pair of 15 mm C.P. brass pillar taps.	8	each	1176.10	9409.00	17.7.3	18	1679.95	30239.1	17.7.3	Qty exceeded due to change in scope of work and drawing.	
3.4	Providing and fixing 100 mm sand cast Iron grating for gully trap.	8	each	16.45	132.00	17.29	18	24.6	442.8	17.29	Qty exceeded due to change in scope of work and drawing.	
3.5	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :	8	each	465.10	3721.00	17.32.2	18	598.3	10769.4	17.32.2	Qty exceeded due to change in scope of work and drawing.	
3.5.1	Rectangular shape 453x357mm	8	each	216.70	1734.00	17.33	18	341.25	6142.5	17.33	..do..	
3.6	Providing and fixing 600X120X5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	8	each	173.00	1384.00	17.34.2	18	259.75	4675.5	17.34.2	..do..	
3.7	Providing and fixing toilet paper holder :	8	each	17.35.1	138.80	17.35.1	275	857.3	235757.5	17.35.1.2	..do..	
3.7.1	Vitreous china											
3.8	Providing and fixing soil, waste and vent pipes :											
3.8.1	100 mm dia.	575	metre	730.40	419980.00	17.35.1.2	275	857.3	235757.5	17.35.1.2	..do..	
3.8.1.1	Centrifugally cast (spun) iron socketed pipe as per IS. 3989.											
3.9	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :											
3.9.1	For 100 mm dia. Pipe	115	each	65.35	7515.00	17.37.1	115	112.5	12937.5	17.37.1		
3.1	Providing and fixing plain bend of required degree.											
3.10.1	100 mm	85	each	236.40	20094.00	17.39.1	30	296.35	8890.5	17.39.1.2	Qty estimated as per due to change in scope of work & drawing	
3.10.1.1	Sand cast iron S&S as per IS : 3989											

Original P.E.

SLNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Remarks
3.11	Providing and fixing heel rest sanitary bend					17.4					
3.11.1	100 mm dia					17.40.1					
3.11.1.1	Sand cast iron S&S as per IS - 3989	12	each	286.35	3436.00	17.40.1.2	10	382.8	3828	17.40.1.2	..do..
3.12	Providing and fixing single equal plain junction of required degree					17.44					
3.12.1	100x100x100 mm					17.44.1					
3.12.1.1	Sand cast iron S&S as per IS - 3989	15	each	442.00	6630.00	17.44.1.2	20	522.85	10457	17.44.1.2	Qty exceeded due to change in scope of work and drawing.
3.13	Providing and fixing terminal guard:					17.56					
3.13.1	100 mm					17.56.1					
3.13.1.1	Sand cast iron S&S as per IS - 3989	45	each	194.60	8757.00	17.56.1.2	12	244.1	2929.2	17.56.1.2	Qty estimated as per due to change in scope of work & drawing
3.14	Providing and fixing collar:					17.57					
3.14.1	100 mm					17.57.1					
3.14.1.1	Sand cast iron S&S as per IS - 3989	15	each	202.70	3041.00	17.57.1.2	30	238.25	7147.5	17.57.1.2	Qty exceeded due to change in scope of work and drawing.
3.15	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter:					17.59					
3.15.1	100 mm	8	each	48.25	386.00	17.59.1	12	61.7	740.4	17.59.1	..do..
3.16	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:					17.60					
3.16.1	100 mm inlet and 75 mm outlet					17.60.2					
3.16.1.1	Sand cast iron S&S as per IS - 3989	8	each	573.35	4587.00	17.60.2.1	20	838.85	16777	17.60.2.1	..do..

SLNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 20	Remark
3.17	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :					17.61					
3.17.1	100 mm dia.	75	metre	152.45	11434.00	17.61.1	0	0	0		Not required as per site condition.
3.18	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work:										
3.18.1	100 mm diameter pipe	250	metre	17.85	4462.50	17.65.1	200	28.75	5750	17.65.1	Qty estimated as per due to change in scope of work & drawing
3.19	Providing and fixing PITMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	4	each	164.65	659.00	17.71	18	180.1	3241.8	17.71	Qty exceeded due to change in scope of work and drawing.
	Sub-Total				597664.50				451682.1		
4	WATER SUPPLY										
4.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings 1/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.										
	Internal work - Exposed on wall										
4.1.1	15 mm nominal outer dia. Pipes.	55	metre	97.95	5387.00	18.7.1	75	133.55	10046.25	18.7.1	.do..
4.1.2	25 mm nominal outer dia. Pipes.	85	metre	150.40	12784.00	18.7.3	200	197.9	39580	18.7.3	.do..
4.1.3	40 mm nominal outer dia. Pipes.	105	metre	275.05	28880.00	18.7.5	260	348.25	50545	18.7.5	.do..

SLNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Remarks
4.2	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work:					18.12					
4.2.1	25 mm dia. nominal bore	15	metre	156.85	2353.00	18.12.3	55	209.4	11517	18.12.3	.do..
4.2.2	50 mm dia. nominal bore	30	metre	280.10	8403.00	18.12.6	200	355.95	71190	18.12.6	.do..
4.2.3	65 mm dia. nominal bore	50	metre	356.15	17808.00	18.12.7	50	453.55	22677.5	18.12.7	.do..
4.3	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete:					18.13					
4.3.1	50 to 80 mm nominal bore	2	each	423.20	846.00	18.13.2	2	630.15	1260.3	18.13.2	
4.4	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:					18.18					
4.4.1	25 mm nominal bore	4	each	385.90	1544.00	18.18.3	10	421.65	4216.5	18.18.3	.do..
4.5	Providing and fixing gun metal non- return valve of approved quality (screwed end):					18.19					
4.5.1	65 mm nominal bore	2	each	1282.10	2564.00	18.19.5	2	1681.95	3363.9	18.19.5.1	
4.5.1.1	Horizontal					18.2					
4.6	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main:					18.20.3					
4.6.1	25 mm nominal bore	8	each	243.70	1950.00	18.20.3	4	331.25	1325	18.20.3	Qty estimatedas per due to change in scope of work & drawing
4.7	Providing and fixing uplasticised PVC connection pipe with brass unions:					18.21					
4.7.1	45 cm length	8	each	44.75	358.00	18.21.2	20	61.7	1234	18.21.2.1	Qty exceeded due to change in scope of work and drawing.
4.7.1.1	15 mm nominal bore					18.21.2.1					

SLNO	Description	Qty	Unit	Rate	Amount	DSI	007	Qty	R	Am	SR 2012	Remarks
4.8	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :					18.33						
4.8.1	With F.P.S. bricks	1	each	3595.30	3595.00	18.33.1	18.47	4	5392.9	21571.6	18.33.1	..do
4.9	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :											
4.9.1	20 mm nominal bore.	4	each	170.10	680.00	18.47.2		8	282.9	2263.2	18.47.2	..do
4.9.2	65 mm nominal bore.	4	each	528.30	2113.00	18.47.7		4	742.55	2970.2	18.47.7	Not required
4.9.3	80 mm nominal bore.	4	each	607.30	2429.00	18.47.8		0	0	0	18.47.8	as per site condition'
4.1	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931					18.49						
4.10.1	15 mm nominal bore.	75	each	207.00	15525.00	18.49.1		40	397.5	15900	18.49.1	Qty estimated as per due to change in scope of work & drawing
4.11	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 grms.					18.51						

SlNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Remarks
4.11.1	15 mm nominal bore	12	each	253.95	3047.40	18.51.1	20	430.6	8612	18.51.1	Qty exceeded due to change in scope of work and drawing.
4.12	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					18.52					
4.12.1	15 mm nominal bore.	8	each	262.55	2100.40	18.52.1	20	426.55	8531	18.52.1	..do
4.13	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					18.53					
4.13.1	15 mm nominal bore	8	each	347.65	2781.00	18.53.1	20	449.35	8987	18.53.1	..do
4.14	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :					18.59					
4.14.1	50 mm dia	1	each	3615.70	3616.00	18.59.1	2	4018.15	8036.3	18.59.1	..do
4.15	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :					18.6					
4.15.1	80 mm dia nominal bore	1	each	2448.40	2448.00	18.60.1	0	0	0	18.60.1	Not required as per site condition
4.16	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball.					18.62					
4.16.1	50mm nominal bore, 242mm long. Weighing not less than 1240 gms.	8	each	1338.30	10706.00	18.62.5	18	1391.5	25047	18.62.5	Qty exceeded due to change in scope of work and drawing.

SLNO	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	rate	Amount	D. 201	Remarks
4.17	Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.	10	each	82.25	823.00	18.77	0	0	0	18.77	Not required as per site condition
	Sub-Total				132740.80	19			358873.75		
5	DRAINAGE					19.1					
5.1	Providing, laying and jointing glazed stoneware pipes class SP1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	10	metre	105.90	1059.00	19.1.1	20	150.1	3002	19.1.1	Qty exceeded due to change in scope of work and drawing.
5.1.1	100 mm diameter	0	metre	0.00	0.00	19.1.2	20	219.05	4381	19.1.2	Item proposed as per agreement item. Item not included in PE
5.2	Providing and fixing square-mouth S.W. gully trap class SP1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :	8	each	961.95	7696.00	19.4.2	18	1278.3	23009.4	19.4.2.1	Qty exceeded due to change in scope of work and drawing.
5.2.1	150 x 100 mm size P type.					19.4.2.1					
5.2.1.1	With F.P.S. bricks class designation 75										

Original P.E.

SlNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Remarks
5.3	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :					19.6					
5.3.1	150 mm dia. R.C.C. pipe	75	metre	202.85	15214.00	19.6.2	75	254.5	19087.5	19.6.2	
5.3.2	250 mm dia. R.C.C. pipe	105	metre	258.20	27111.00	19.6.3	270	342.45	92461.5	19.6.3	..do.
5.4	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :					19.7					
5.4.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :					19.7.1					
5.4.1.1	With F.P.S. bricks with class designation 75	12	each	5383.70	64604.00	19.7.1.1	24	7132	171168	19.7.1.1	..do
5.5	Extra for depth for manholes					19.8					
5.5.1	Size 90x80 cm					19.8.1					
5.5.1.1	With F.P.S. bricks class designation 75	1	metre	2654.00	2654.00	19.8.1.1	5	4061.7	20308.5	19.8.1.1	..do.
5.6	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m :					19.12					
5.6.1	With F.P.S. bricks class designation 75	1	metre	2954.75	2955.00	19.12.1	5	4522.3	22611.5	19.12.1	..do

SLNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Rate
5.7	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing. Including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	8	each	182.40	1459.00	19.16	25	256.75	6418.75	19.16	do.
5.8	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :					19.21					
5.8.1	For pipes 100 to 230 mm diameter	1	each	164.30	164.00	19.21.1	1	275	275	19.21.1	
5.9	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid, sand cast iron drop pipe and bend encased all-round with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) with all centring and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand) plastered with cement mortar 1:3 (1 cement : 3 coarse sand) on inside of the manhole wall lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :	1	each	5152.95	5152.95	19.22.2	1	6775.45	6775.45	19.22.2	
5.9.1	150 mm dia. sand cast iron drop connection	1	each	5152.95	5152.95	19.22.2	1	6775.45	6775.45	19.22.2	

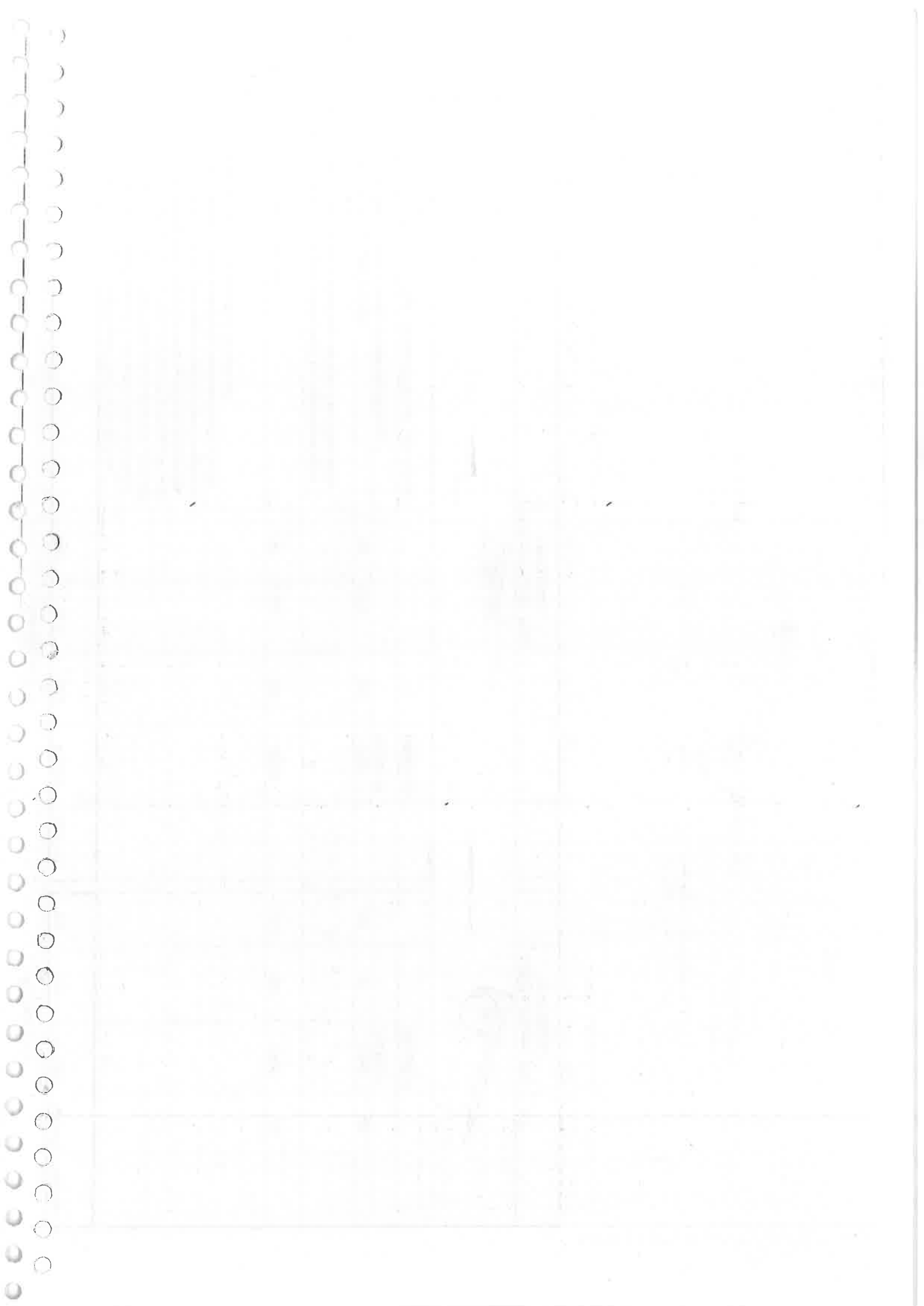
Original P.E.

Revised P.E.

SLNo	Description	Qty	Unit	Rate	Amount	DSR 2007	Qty	Rate	Amount	DSR 2012	Remarks
2	Providing & fixing chlorinate Polyvinyl Chloride (CPVC) Pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement & the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge (concealed) work including cutting chases and making good the walls etc)				0				0		
	40mm dia nominal bore	50	metre	400	20000		50	596	29800	.do	
3	Painting GI/CPVC pipes & fittings with synthetic enamel white paint over a ready mixed priming coat both of approved quality for new work.				0				0		
	65mm nominal outer dia pipes.	500	metre	14	7000		500	21	10500	.do	
	Total Cost for Sanitary Plumbing works (NDSR items)				527000.00				785300.00		
	TOTAL COST FOR SANITARY PLUMBING WORKS (DSR ITEMS + NDSR ITEM)				1405336.00				2013193.20		
		Assistant Engineer JPSPD, CPWD Jabalpur				Executive Engineer JPD, CPWD Jabalpur					

[Signature]

[Signature]



Client: PDPM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O.
Khamariya, Jabalpur-482005

Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Swastik Society, Blh St. Xaviars Ladies Hostel, Navrangpura,
Ahmedabad.

PROJECT: CONSTRUCTION OF ROAD AND SERVICE NETWORKS PHASE-2 (CIVIL WORKS) AT IIITDM, JABALPUR.

SUMMARY FOR CIVIL WORKS

SR.	PARTICULAR	AMOUNT
1	Total Cost of All Infra. - Remaining Selected Roads of Campus - Road, Sewerage, Water, SWD & Cable Ducting Works	Rs. 16,89,21,476.00
	Add 1% for Labour welfare cess	16,89,215.00
	Add 3% for Contingencies	50,67,644.00
	Add 5.618 % for Architects Fees	87,29,862.00
	TOTAL COST OF ALL INFRA. - REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWERAGE, WATER, SWD & CABLE DUCTING WORKS	18,44,08,197.00



Anirudh K Datta, Proprietor,
Datta And Datta Associates,
Ahmedabad.

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PROJECT: DEVELOPMENT OF PDPM IIIT DM CAMPUS JABALPUR --- INFRASTRUCTURE DEVELOPMENT

BASED ON GOVERNMENT OF DELHI SCHEDULE OF RATES -- 2012

ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
		EARTH WORK				
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth. 1.5 mt in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 mt, disposed earth to be levelled and neatly dressed.	cum	17110.00	129.35	2213178.50
		EARTH WORK IN EMBANKMENT				
2	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	sqm	9960.00	61.25	610050.00
3	2.3	Banking excavated earth in layers not exceeding 20 cm. in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m. --- All kinds of soil	cum	18100.00	181.25	3280625.00
4		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	Cum	6521.00	130.80	852946.80

ABSTRACT (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM NO	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
5	2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains not exceeding 1.5m in width or 10 sqm on plan including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
a	2.9.1	Ordinary rock	cum	772.00	212.00	163664.00
b	2.9.3	Hard rock (blasting prohibited)	cum	415.00	491.90	204138.50
6	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				
a	2.8.1	All kinds of soil.	Cum	1513.00	34.60	52349.80
b	2.26.2	Ordinary or hard rock.	cum	169.00	62.00	10478.00
7	2.1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
a	2.10.1.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	1682.00	101.40	170554.80
b	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	25162.00	165.60	4166827.20
c	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm.	metre	208.00	258.55	53778.40
3	2.11	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).				
a		Pipes, cables etc. not exceeding 80 mm dia.	metre	14.00	136.89	1916.46
b		Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	6664.00	223.56	1489803.84

REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS :-

ABSTRACT - (BOQ)

ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
c		Pipes, caoles etc. exceeding 300 mm dia but not exceeding 600 mm.	metre	72.00	349.04	25131.06
9	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50m :				
	2.13.1	Ordinary rock :				
a	2.13.1.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	199.00	142.95	28447.05
b	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	metre	3022.00	353.95	1069636.90
c	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600mm dia	metre	24.00	407.30	9775.20
10	2.13.3	Hard rock (blasting prohibited)				
a	2.13.3.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	98.00	276.05	27052.90
b	2.13.3.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	2025.00	683.50	1384087.50
c	2.13.3.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600mm dia.	metre	16.00	786.50	12584.00
11	2.14	Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)				
	2.14.1	Ordinary rock :				
a	2.14.1.1	Pipes, cables etc. not exceeding 80 mm dia.	metre	11.00	150.10	1651.07
b	2.14.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	650.00	371.65	241570.88
c	2.14.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600mm dia.	metre	16.00	427.67	6842.64



REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --

ABSTRACT - (BOQ)	ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
			G.S.B. LAYER				
			Granular Sub-base as per Table:- 400-1				
	15	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	6622.00	1990.65	13182084.30
		16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075mm) having CBR Value-25.				
	16	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub-base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	6622.00	1960.60	12983093.20
			ROAD REGRADING AND RESURFACING --				
	17	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10 including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :	sqm	25664.00	40.15	1030409.60
		16.30.1	On W.B.M. @ 0.75 Kg / sqm.				
	b	16.30.2	On bituminous surface @ 0.50 Kg / sqm.	sqm	25664.00	29.00	744256.00
	18	16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				

ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
a	16.55.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50 % (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 60-90 TPH capacity.	cum	1026.00	6149.90	6309797.40
	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
b	16.57.5	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1026.00	8836.20	9065941.20
ALTERNATE ITEM FOR R.C.C. PAVEMENT						
19	16.75 modified	Providing and laying C.C. pavement of mix M-30 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately).				
NOTE -- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.						
20	16.45	Providing and fixing in position pre-moulded joint filler in expansion joints.	Per cm depth per cm width per m length	22000.00	2.40	52800.00

REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --

ABSTRACT - (BOQ)	ITEM DESCRIPTION		UNIT	TOTAL QTY	RATE	AMOUNTS
ITEM No	DSR ITEM CODE					
21	16.69	FOOTPATH, KERB AND VERGE WORKS Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	1907.00	5046.80	9624247.60
22	16.68 modified	Providing and laying 80 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, rubber moulded and reflective coating of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm	9886.00	914.15	9037286.90
23	4.1	P.C.C. WORK Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	cum	2726.00	3593.30	9795335.80
a	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).				
b	4.1.10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	cum	1665.00	3357.40	5590071.00
24	5.33 5.33.1	R.C.C. WORK Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level.	cum	148.00	5242.15	775838.20

ABSTRACT (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
		FORM WORK				
25	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.5	Slab, beams, Walls girders, bressumers and cantilevers.	sqm	1746.00	262.25	457888.50
		STEEL WORK				
26	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	5.22.6	Thermo-Mechanically Treated Bars.	kg	14800.00	62.25	921300.00
		PLASTERING AND POINTING				
27	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement: 3 fine sand)	sqm	1481.00	101.00	149581.00
28	19.15	Providing M.S. foot rests including fixing in manholes with 20X20X10 cm cement concrete blocks 1:3:				
	19.15.2	With 20 mm diameter round bar	Each	132.00	193.15	25495.80
		RECYCLING WATER PIPE LINE -				
29	NS	Providing and laying PE 100 class HDPE pipes conforming to IS:4984:1995 in all kinds of strata. This includes jointing of pipes & fittings, trenching ,refilling etc. complete as per direction of Engineer in Charge.				
		110 mm dia pipe (PN 12.5)	metre	10590.00	874.00	9255660.00
30		Providing and laying PE 100 class HDPE pipes conforming to IS:4984:1995 in all kinds of strata. This includes jointing of pipes & fittings, making 5mm diaholes at 30 cm c/c, trenching ,refilling etc. complete as per direction of Engineer in Charge.				
	18.7.3	25 mm dia pipe (PN 12.5)	metre	9205.00	118.00	1086190.00
31	18.18	Providing and fixing half turn ball valve (brass) of approved quality etc complete :				
	18.7.3	25 mm nominal dia	each	420.00	421.65	177093.00



REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --

ITEM No	ABSTRACT - (BOQ) DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
32		Making connection of HDPE distribution branch in HDPE main of following sizes by providing and fixing tee or coupler socket, including jointing the pipe etc. complete as per direction of Engineer in Charge: 110 x 110 x 25 mm	each	420.00	250.00	105000.00
		ROAD SIDE FURNITURE AND SINAGE WORK -				
33	16.48	Painting road surface marking with adequate no. of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
	16.48.1	New work (Two or more coats).	sqm	1588.00	95.75	152051.00
34	16.61	Providing Retro-reflective regulatory sign board of size 900mm dia meter made out of 2mm thick aluminum sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter; symbols, borders etc. will be as per IRC - 67 with required color scheme on the boards and with the high intensity grade A. The aluminum sheet to be fixed to M.S. frame of sq. hollow sections of size 40 x 40 x 4mm. The boards will be fixed to 2 Nc. 50 x 50 mm square post made of M.S. hollow section 50 x 50 x 4 mm, 4m long welded to the frame with adequate anti-theft arrangement .Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminum sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	sqm	145.00	5061.65	733939.25
35		Providing @ 3 mm th Fiber glass or PVC @ 200 lit capacity Road site Dust-Bin of approved Shape and color. With Lead arrangement and supporting frame etc. as per detail drawings, approved sample all complete and as directed by the Architect/ Engineer-in-Charge	each	51.00	7500.00	382500.00
36		Providing and fixing Bench in Cement Concrete (M-35) & req. reinforcement and with Terrazzo finish of overall size 2.1 m x 0.6 m x 0.4 m (height) including Concrete legs for contact with paving as per detail drawings, approved sample all complete and as directed by the Architect/ Engineer-in-Charge	each	51.00	5500.00	280500.00

ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
		R.C.C. PIPE LINE -				
37	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :	meter	32.00	254.50	8144.00
a	19.6.2	150 mm				
b	19.6.3	250 mm	meter	14574.00	342.45	4990866.30
c	19.6.4	300 mm	meter	8534.00	422.90	3609028.60
d	19.6.6	450 mm	meter	120.00	620.85	74502.00
e	19.6.7	600 mm	meter	120.00	1084.25	130110.00
38	2.27	Supplying and filling in plinth with River sand / Murom under floors, including watering, ramming, consolidating and dressing complete.	cum	1150.00	749.30	861695.00
		SEWER APPURTENANCES				
39	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
a	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	833.00	15322.95	12764017.35
b	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	19.19.3	HD - 20				1390.25

ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
b	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	19.19.1	L D-2.5				
	19.19.1	Rectangular shape 600x450mm internal dimensions (Less Diffrence Of C.I.& RCC cover with frame)	each	768.00	-940.80	-722534.40
c	19.31	Extra for depth beyond 45 cm of brick masonry chamber :				
	19.31.1	For 455 x 610 mm size				
	19.31.1.1	With F.P.S. bricks	metre	401.00	2824.45	1132604.45
43	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :	Each	216.00	333.15	71960.40
	19.21.2	For pipes 250 to 300 mm diameter				
44		VENTILATING COLUMN WORK				
		Providing and erecting steel ventilating columns 15 cms. dia. with C.I. ornamental cap and base fixed firmly with necessary foundation with one coat of red lead oxide paint and one coat of any approved colour with 15 cms. dia. stoneware or R.C.C. pipe connector with M.H. including excavation with M.H. including excavation and jointing as required etc. complete. (As per drawing)	No.	22.00	16490.00	362780.00
45	18.72	DUCTILE IRON PRESSURE PIPES (TYTON JOINTS) & FITTINGS				
		Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :				
a	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	meter	7096.00	946.00	6712816.00
b	18.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	10.00	1389.40	13894.00
c	18.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	10.00	1895.40	18954.00

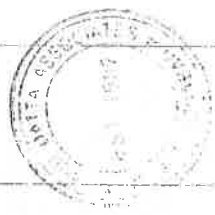


ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
46	18.73	Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :				
a	18.73.1	100 mm dia Ductile Iron Double Flanged	metre	72.00	2376.45	171104.40
b	18.73.2	150 mm dia Ductile Iron Double Flanged	metre	10.00	3318.10	33181.00
c	18.73.3	200 mm dia Ductile Iron Double Flanged	metre	10.00	4395.00	43950.00
		C.I. / D.I. STANDARD SPECIALS				
47	18.68	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523				
	18.68.1	Up to 600 mm dia	quintal	68.71	13958.95	959119.45
48	18.69	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :				
	18.69.1	Up to 600 mm dia	quintal	14.04	14760.35	207235.31
49	18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				
a	18.31.1	100 mm diameter				
	18.31.1.2	Class II	each	201.00	3498.30	703158.30
b	18.31.3	150 mm diameter				
	18.31.3.2	Class II	each	18.00	5200.40	93607.20
c	18.31.4	200 mm diameter				
	18.31.4.2	Class II	each	18.00	11260.60	202690.80
50	18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately)				

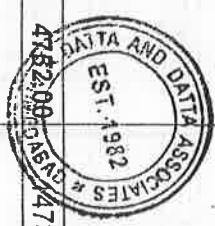


ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
a	18.59.1	50 mm dia	metre	135.00	4018.15	542450.25
b	18.59.2	80 mm dia	metre	36.00	5830.10	209883.60
c	18.59.3	100 mm dia	metre	31.00	7602.35	235672.85
51	18.6	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :	each	31.00	4329.20	134205.20
52	18.12	GALVANISED IRON PRESSURE PIPES & FITTINGS. Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
		External work				
a	18.12.3	25 mm dia. nominal bore	metre	198.00	209.40	41461.20
b	18.12.4	32 mm dia. nominal bore	metre	14.00	248.55	3479.70
c	18.12.5	40 mm dia. nominal bore	metre	14.00	294.20	4118.80
d	18.12.6	50 mm dia. nominal bore	metre	1524.00	355.95	542467.80
e	18.12.7	65 mm dia. nominal bore	metre	9000.00	453.55	4081950.00
f	18.12.8	80 mm dia. nominal bore	metre	3.00	573.40	1720.20
53	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
a	18.13.1	25 to 40 mm nominal bore	each	13.50	277.35	3744.23
b	18.13.2	50 to 80 mm nominal bore	each	135.00	630.15	85070.25

REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS ...						
ABSTRACT - (BOQ)	ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	AMOUNTS
54		18.14	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	each	135.00	30854.25
55		18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
	a	18.17.1	25 mm nominal bore	each	11.80	4400.81
	b	18.17.2	32 mm nominal bore.	each	2.20	991.98
	c	18.17.3	40 mm nominal bore	each	2.80	1528.94
	d	18.17.4	50 mm nominal bore	each	135.00	105381.00
	e	18.17.5	65 mm nominal bore	each	31.00	33270.75
	f	18.17.6	80 mm nominal bore	each	9.00	16496.55
56		18.33	WATER APPURTENANCES Constructing masonry Chamber 60 x 60 x 75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :			
		18.33.1	With common burnt clay F. P. S. (non modular) bricks of class designation 7.5	Each	135.00	728041.50



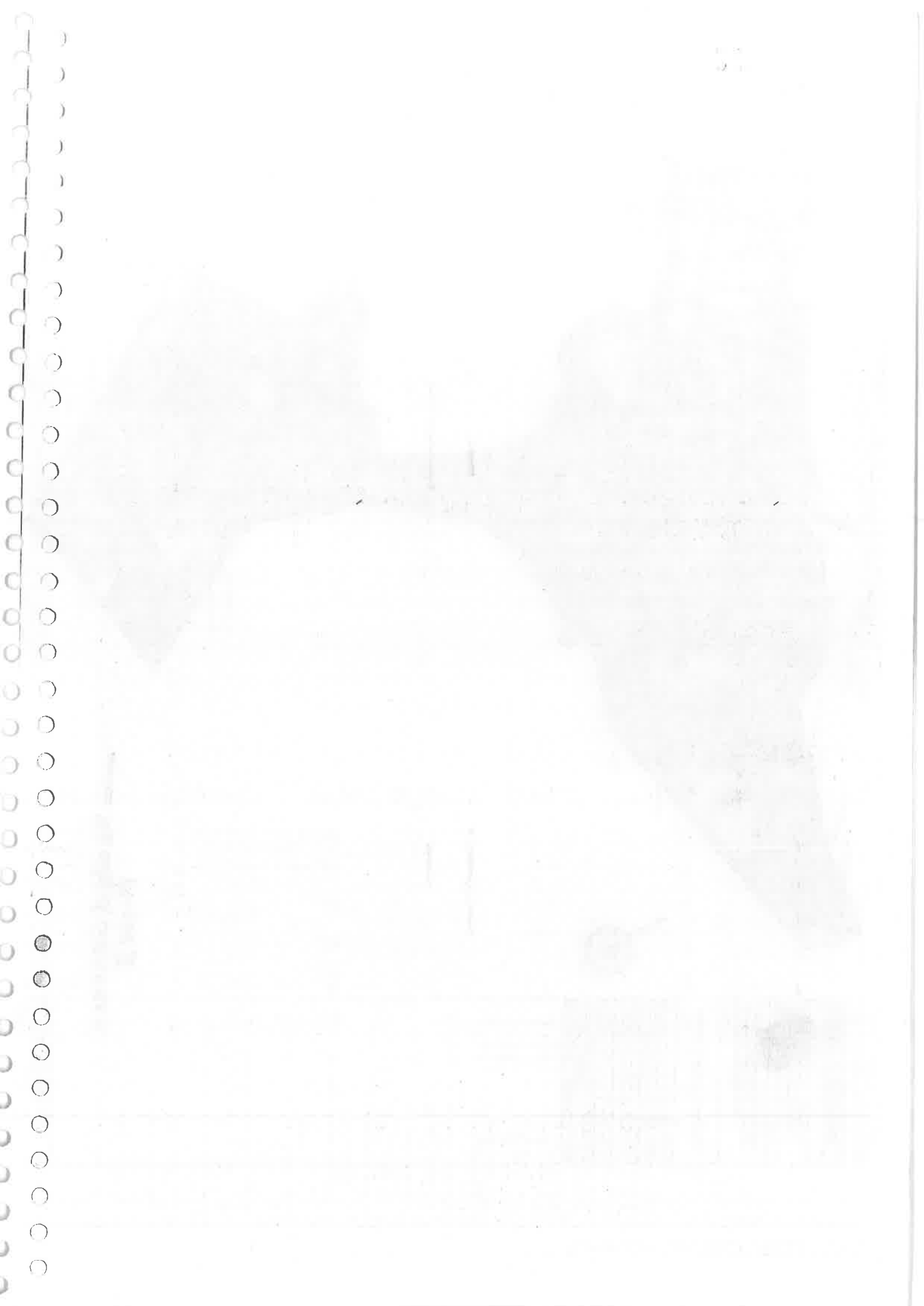
ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
57		Constructing masonry Chamber 90 x 90 x 100 cm inside. in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside).with chained lid and RCC top slab 1:2.4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :				
	18.34					
	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	each	201.00	9277.10	1864697.10
FIRE FIGHTING SYSTEM						
58		Supplying & fixing 63 mm dia Gun metal branch pipe with 25 mm (nominal internal diameter) size Gun Metal nozzle conforming to IS 903, suitable for instantaneous connection to interconnect hose pipe coupling as required.	Nos	31.00	1829.00	56699.00
	NS					
59		Providing and fixing following class-II Globe wheel valves, confirming to IS 778/1984 (Reaffirmed 2005), tested to 21.09 Kg/sq.cmt.				
		Screwed				
		25mm dia	Nos	31.00	252.00	7812.00
60		Providing and fixing gunmetal Singel headed Yard hydrant valve conforming to IS - 5290 with 63 mm dia instantaneous female coupling on the outlet with S.S. orifice flange 6 mm thick as required to maintain 3.5 Kg/sq.cm., gunmetal blank cap and chain, necessary companion flanges (as per table "E") nuts, bolts, washer and gasket complete as per specification. (ISI marked)				
		Single outlet	Each	31.00	4782.00	147312.00
61		Supplying and fixing 63mm dia, 15 mtr. Long RRL hose pipe with 63mm dia Male and Female Gun metal couplings duly banded with GI wire, rivets etc. conforming to IS 636 (type-A) as required.	Nos	31.00	2040.00	63240.00
	NS					



ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
62	NS	Supplying and Fixing Fire Hose Reel, wall mounting swinging type complete with drum & bracket of MS construction, spray painted in Post office Red, conforming to IS 884/1995 with upto date amendments, complete with the following as required.				
	a)	36 Meter long 20 mm dia water hose Thermoplastic (Textile reinforced) Type - 2 as per IS : 12585				
	b)	20 mm dia gun metal ball valve & nozzle.				
	c)	Drum and brackets for fixing the equipments on wall.				
	d)	Connection from riser with stop valve (gun metal) & M.S. Pipe	Nos	31.00	7260.00	225060.00
63	NS	Providing and fixing Fire hose cabinet with glazed door shutter and frame with hold fasts (frame fabricated from 40 x 40 x 5mm and shutter from angle) 2100 mm high x 1200 mm wide x 600mm deep with locking arrangement, 4mm thick glass with M.S. flats including all accessories, painting with one coat of steel primer and two coats of postal red enamel paint complete as per drawing and as directed. The words " hose cabinet" to be painted on the box complete in all respects. (For Internal Hydrants)	Each	31.00	7980.00	247380.00
64	NS	DWC PIPE FOR DUCTING CABLE - Providing and laying Double walled corrugated (DWC) HDPE pipes conforming to IS : 14930, Part II in all kinds of strata. This includes jointing of pipes & fittings, trenching ,refilling etc. complete as per direction of Engineer in Charge.				
	a	63 mm/50 mm dia pipe	metre	988.00	166.00	164008.00
	b	110 mm/95 mm dia pipe	metre	15052.00	322.00	4846744.00
	c	180 mm/152 mm dia pipe	metre	180.00	599.00	107820.00

ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS -				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
RAINWATER HARVESTING						
65		Constructing brick masonry Filter chamber for underground with part bricks masonry in cement mortar 1:4 (1 cement : 4 coarse sand) and Hunney comb masonry R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) below masomary, 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) finished inside part plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard designas and as per detail drawings all complete and as directed by the Architect/ Engineer-in-Charge.	Each	16.00	50000.0	800000.00
		Inside size @ 180 x 420 cm and 200 cm deep.				
66		Constructing Percolating Well with brick masonry Filter chamber for underground with part bricks masonry in cement mortar 1:4 (1 cement : 4 coarse sand) and Hunney comb masonry R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) below masomary, inside part plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete and Including Bore well of required dia for casing / strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineres required for the job, all complete as per direction of Engineer-in-charge, upto 50 metre depth below ground level. as per standard designas and as per detail drawings all complete and as directed by the Architect/ Engineer-in-Charge.	Each	12.00	140000.0	1680000.00
		Inside size @ 2.5 mt dia 3 deep filter Chamber. And 15 dia PVC Percolating Well of @ 50 mt Depth				
6	6.34	Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 10 average compressive strength in super structure above plinth level up to floor V level in.	cum	92.00	3978.50	366022.00
	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)				
7	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level.				

ABSTRACT - (BOQ)		REMAINING SELECTED ROADS OF CAMPUS · ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --				
ITEM No	DSR ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	AMOUNTS
	4.1.10	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	cum	34.00	3357.40	114151.60
8	13.7	CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT				
	13.7.2	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	sqm	700.00	153.45	107415.00
TOTAL COST OF ALL INFRA. - REMAINING SELECTED ROADS OF CAMPUS - ROAD, SEWORAGE, WATER, SWD & CABLE DUCTING WORKS --						
						168921476



Client: PDPM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O. Khamariya,
Jabalpur-482005

Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Swastik Society, B/h St. Xaviers Ladies Hostel, Navrangpura,
Ahmedabad.

PROJECT: CONSTRUCTION OF ROAD AND SERVICE NETWORKS PHASE-2 (ELECTRICAL WORKS) AT IITDM, JABALPUR

SUMMARY FOR ELECTRICAL WORKS

SR.	PARTICULAR	AMOUNT
1	ELECTRICAL WORKS (DSRT ITEMS)	Rs. 31,01,401.50
2	ELECTRICAL WORKS (NDSRT ITEMS)	Rs. 6,07,85,742.00
	TOTAL COST FOR ELECTRICAL WORKS	Rs. 6,38,87,143.50
	Add 5% FOR GRIHA RATING	31,94,357.18
	Add 1% for Labour welfare cess	6,38,871.44
	Add 3% for Contingencies	19,16,614.31
	Add 5.618 % for Architects Fees	35,89,179.72
	TOTAL AMOUNT	7,32,26,166.14



[Signature]

Anirudh K Datta, Proprietor,
Datta And Datta Associates,
Ahmedabad



Architects Datta and Data Associates, 101 Sneh Shilp, 66 Swastik Society, Navrangpura, Navrangpura, Ahmedabad-09

Client: PDPM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O. Khamaruya, Jabalpur-482005	
Architect: Datta and Data Associates, 101, Sneh Shilp, 66, Swastik Society, B/h St. Xaviers Ladies Hostel, Navrangpura, Ahmedabad.	
Project : Electrical Infrastructure Services for Phase-1	
SUMMARY	
PART A : ELECTRICAL WORKS (ITEMS AS PER DSR - 2012)	
Sr.	PARTICULAR
1	HV / LV CABLE LAYING, CABLE TRENCH AND TRAY
2	CABLE TERMINATION
3	INTERNAL POINT WIRING
4	EARTHING
	ELECTRICAL WORKS (DSRT ITEMS)
	AMOUNT
	Rs. 10,74,232.00
	Rs. 3,60,720.00
	Rs. 3,50,411.50
	Rs. 13,16,038.00
	Rs. 31,01,401.50

Client: PDM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O.

Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Swastik Society, B/H St. Xaviers Ladies
Hostel, Navrangpura, Ahmedabad.

Project : Electrical Infrastructure Service for Phase - 1

ESTIMATE

PART: A ELECTRICAL WORKS (ITEMS AS PER DSR - 2012)

Sr.	ITEM	PARTICULAR	UNIT	QTY	RATE	AMOUNT
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SECTION - 1.0 HV / LV CABLE LAYING, CABLE

TRENCH AND TRAY

HV CABLE LAYING : WITH SAND AND

PROTECTIVE COVERING

11	8.1.2	Above 120 sq. mm and upto 400 sq. mm Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	Mtr	25	245.00	6,125.00
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12	8.2.2	Above 120 sq. mm and upto 400 sq. mm Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL/DWC pipe as required.	Mtr	25	172.00	4,300.00
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13	8.3.2	Above 120 sq. mm and upto 400 sq. mm Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.	Mtr	4150	44.00	1,82,600.00
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14	8.4.2	Above 120 sq. mm and upto 400 sq. mm Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.	Mtr	50	37.50	1,875.00
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LV/MV CABLE LAYING : WITH SAND AND
PROTECTIVE COVERING

15	7.10	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	Mtr	100	177.00	17,700.00
15.1	7.1.1	Upto 35 sq. mm	Mtr			
15.2	7.1.4	Above 185 sq. mm and upto 400 sq. mm	Mtr	50	205.00	10,250.00

SR. ITEM	CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
1.6	7.2	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation, including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
1.6.1	7.2.1	Upto 35 sq. mm	Mtr	50	121.00	6,050.00
1.6.2	7.2.4	Above 185 sq. mm and upto 400 sq. mm	Mtr	100	149.00	14,900.00
1.7	7.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUMC/ METAL/DWC pipe as required.				
1.7.1	7.5.1	Upto 35 sq. mm	Mtr	4000	12.00	48,000.00
1.7.2	7.5.4	Above 185 sq. mm and upto 400 sq. mm	Mtr	6606	44.00	2,90,664.00
1.8	7.6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
1.8.1	7.6.1	Upto 35 sq. mm	Mtr	300	9.10	2,730.00
1.8.2	7.6.4	Above 185 sq. mm and upto 400 sq. mm	Mtr	200	37.50	7,500.00
1.9	7.7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. (cable tray)				
1.9.1	7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	Mtr	60	19.50	1,170.00
1.9.2	7.7.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Mtr	222	95.00	21,090.00
1.10	4.1	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
1.10.1	4.1.6	450 mm width x 50 mm depth x 2 mm thickness	Mtr	50	974.00	48,700.00
1.10.2	4.1.7	600 mm width x 50 mm depth x 2 mm thickness	Mtr	100	1,210.00	1,21,000.00
1.10.3	4.1.15	750 mm width x 75 mm depth x 2.0 mm thickness	Mtr	150	1,507.00	2,26,050.00
1.11	7.9	Supply and making cable route marker with cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm x 60 cm at the bottom and 50 cm x 50 cm at the top with thickness of 10 cm including inscription duly engraved as required.	Each	56	263.00	14,728.00

SR.	ITEM CODE	PARTICULARS	UNIT	QTY	RATE	AMOUNT
1.12	7 10	Supply and fixing cable route marker with 10 cm x 10 cm x 5 mm thick GI plate with inscription there on, bolted/welded to 35 mm x 35 mm x 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	200	244.00	48,800.00
SECTION - 2.0 CABLE TERMINATION						
SUB TOTAL						10,74,232.00
SECTION - 2.0 CABLE TERMINATION						
2.1	9.1.30	3/4 X 300 sq. mm (70mm)	Each	168	867.00	1,45,656.00
2.2	9.1.21	3/4 X 35 sq. mm (32mm)	Each	8	223.00	1,784.00
2.3	9.1.32	4 X 10 sq. mm (25mm)	Each	466	146.00	68,036.00
2.4	10.1	Supplying and making indoor cable end joining with cast resin compound, including lugs and other joining materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
2.4.1	10.1.3	240 sq. mm	Each	44	3,301.00	1,45,244.00
SUB TOTAL						3,60,720.00
SECTION - 3.0 POINT WIRING						
COPPER WIRING IN PVC CONDUIT						
3.1	1.10	Point wiring in PVC conduit, with modular type switch, wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sqmm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, suitable GI box and earthing the point with 1.5 sqmm FR PVC insulated copper conductor single core cable for loop earthing as required.				
3.1.1	1.10.3	Group C	Point	28	664.00	18,592.00
3.2	1.11	Twin control point wiring in PVC conduit, with modular type switch : Wiring for twin control light point with 1.5 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Point	7	710.00	4,970.00
3.3	1.12	Power plug wiring in PVC conduit (2x4 sq. mm) : Wiring for light / power plug with 2x4 sqmm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit along with 1 no 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required - only for 15A sockets	Mtr	210	162.00	34,020.00

S.R.	ITEM CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
3.4	1.14	Circuit / sub-main wiring in PVC conduit : Wiring for circuit / submain wiring alongwith the following sizes of PVC insulated copper conductor, single core cable in surface / recessed PVC conduit as required.				
3.4.1	1.14.1	2 x 1.5 sq.mm + 1 x 1.5 sq. mm earth wire - FOR LOOPING OF 5A SOCKETS + Street light pole junction box to fixtures	Mtr	2097	107.00	2,24,379.00
3.4.2	1.14.2	2 x 2.5 sq.mm + 1 x 2.5 sq. mm earth wire - FOR 5 AMP SOCKETS AND LIGHTING CKTS.	Mtr	210	131.00	27,510.00
3.5	1.21	S/F PVC Conduit : Supplying and fixing of following sizes of PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required				
3.5.1	1.21.2	25 mm	Mtr	150	64.50	9,675.00
3.5.2	1.21.3	32 mm	Mtr	200	80.50	16,100.00
3.6	1.31	S/F Power plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required.	Each	14	288.00	4,032.00
3.7	1.32	S/F Power plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16 and 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required	Each	14	366.00	5,124.00
3.8	1.25	Supply and fixing stepped type electronic fan regulator on the existing modular plate, switch box including connections but excluding modular plate etc. as required	Each	7	322.00	2,254.00
3.9	1.44	Installation, Testing and commissioning of ceiling fan, including wiring, the down rods of standard length (up to 30cm) with 1.5 sq mm FR PVC insulated, copper conductor, single core cable etc. as required	Each	7	73.50	514.50
3.10	1.50.1	Installation of Exhaust fan up to 450mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required	Each	14	163.00	2,282.00
3.11	1.51	Extra for fixing the louvers / shutters complete with frame for a exhaust fan for all sizes	Each	14	68.50	959.00
SUB TOTAL						3,50,411.50
Rs.						3,50,411.50

SECTION -4.0 EARTHING

Sr.	ITEM CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
4.1	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	42	8,559.00	3,59,478.00
4.2	5.10	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer, excavation and re-filling etc. as required.	Mtr	630	962.00	6,06,060.00
4.3	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for conduits etc. as required.	Mtr	420	766.00	3,21,720.00
4.4	5.20	P/F 50mm X 5 mm copper earth bus on surface : Providing and fixing earth bus of 50mm X 5 mm copper strip on surface for connections etc. as required.	Mtr	20	1,439.00	28,780.00
SUB TOTAL						13,16,038.00
TOTAL COST FOR ELECTRICAL WORKS (DSR ITEMS)						31,01,401.50

Sr.	Particular	Rs.	AMOUNT
1	ELECTRICAL ROOM EQUIPMENT & AUXILIARY	Rs.	1,97,666.00
2	SUB STATION AND ACCESSORIES	Rs.	2,54,10,504.00
3	ELECTRICAL PANELS INSTALLATION	Rs.	1,20,12,143.00
4	L.T. CABLES	Rs.	1,65,73,539.00
5	EXTERNAL ELECTRIFICATIONS	Rs.	65,91,890.00
	ELECTRICAL WORKS (NDSRT ITEMS)	Rs.	6,07,85,742.00

PART A : ELECTRICAL WORKS (NDSR ITEMS)

SUMMARY

Project : Electrical Infrastructure Services for Phase - 1

Hostel, Navrangpura, Ahmedabad.

Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Swastik Society, B/h St. Xaviers Ladies

P.O. Khamariya, Jabalpur-482005

Client: PDM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road,



SR.	ITEM CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
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SECTION - 1.0 ELECTRICAL ROOM EQUIPMENT AND AUXILIARY

1.1	MR	Supply and Fixing of 6.5kg CO2 type portable fire extinguisher	No	14	7,159.00	1,00,226.00
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1.2	MR	Supply and fixing of first aid M 3 box with standard make and also contains all medical items.	No	7	546.00	3,822.00
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1.3	MR	Supply and fixing Chart in glassed wooden frame.	No	7	206.00	1,442.00
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1.4	MR	Supply and fixing of fire buckets with floor / wall mounting stand and first filling of sand	No	14	1,581.00	22,134.00
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1.5	MR	Supply and fixing of 1 x 20 W FL T/L self contained emergency light with dry type maintenance free battery.	No	14	2,034.00	28,476.00
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1.6	MR	Supply and fixing of 11 KV-grade 12 mm thick 1000 mm wide rubber insulating mat	RMT	14	1,703.00	23,842.00
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1.7	MR	Supply and fixing of 1.1 KV grade 6 mm thick 1000 mm wide rubber insulating mat	RMT	21	844.00	17,724.00
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SUB TOTAL

1,97,666.00

SECTION - 2.0 SUB STATION AND ACCESSORIES

2.1	MR	Supply, installation, Testing and commissioning of 1250 KVA Compact sub Station as per following Specifications :	No	7	32,28,108.00	2,25,96,756.00
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HT Switchgear

Two way, 11kV, 21kA for 1 sec. Extensible Compact switchgear (Type 2IS+1DC) consisting of 2nos. feeder with fixed manually operated 630A Load break switch and 1No. draw out type electrical and mechanical operated 630A Vacuum Circuit Breaker in Sfe insulated stainless steel enclosure along with below mentioned items. Interconnection between HT switchgear and transformer shall be using Al. unarmoured XLPE Cable. 1 No of vacume or Sfe circuit breaker of 630A with integral earth switch with self powered over current and earth fault relay, with shunt trip coil of 230V AC with push button for circuit breaker manual tripping, neon live cable indicators with Sfe gas pressure monitor included SCADA intigrated system inbuilt in system

Transformer

1250KVA, 11KV/433V, Dyn11, VPI (Vacuum Pressure Impregnated) OVDT (Open Ventilated Dry Type) transformer, with top bushings for HT & LT with off load tap switch of rating +5% to -5% @2.5% on HT side of transformer, with WTI as per Specifications.

SR. ITEM	PARTICULAR	UNIT	QTY	RATE	AMOUNT
3.1	MR Typical LT Panel for 1250 KVA Compact Sub Station	No	7	10,33,875.00	72,37,125.00
3.0	Supply, Unloading at site, shifting to final location, commissioning of following panels as per drawings. Any sort of fabrication work required for erection of panel at site shall be done by the contractor. The contractor shall also check for all the loose joints and continuity of the panel. Any physical or technical defects envisaged by the contractor shall be brought to consultants knowledge.				
SECTION - 3.0 ELECTRICAL PANELS INSTALLATION					
SUB TOTAL					
					Rs. 2,54,10,504.00
2.2	MR 630A 11 KV HT VCB breaker with protection relay (OV & UV) in existing panel complete with all accessories etc. electrical and mechanical operated 630A Vacuum Circuit Breaker in SF6 insulated stainless steel enclosure along with below mentioned items. 1. No of switch or SF6 circuit breaker of 630A with integral earth relay, with shunt trip coil of 230V AC with push button for circuit breaker manual tripping, neon live cable indicators with SF6 gas pressure monitor included SCADA integrated system inbuilt in system.	No	6	4,68,958.00	28,13,748.00
<p>Outdoor Enclosure</p> <p>433V LT Indoor panel 2000A with Aluminium Busbars, fabrication using 1.5/2 MM CRCA sheet steel, Ingress protection IP4X, complete with internal wiring consisting of following.</p> <p>Incomer Cum Outgoing</p> <p>2nos 2000A, 4P, 50KA draw out type electrical and mechanical operated type Air Circuit Breaker with Micro Processor based Release protection release, all relay function included etc. S/C, E/F, O/L, S/T is in built.</p> <p>Outdoor Enclosure</p> <p>Outdoor type enclosure having modular construction of Galvanised Sheet Steel. The Enclosure shall have IP54 degree of protection for HT & LT switchgear, compartment & IP23 degree of protection for Transformer compartment. The enclosure exterior shall be painted with polyurethane paint (colour Light Gray & D.A. Gray). Each compartment will be provided with the door and pad locking arrangement. The Compartment illumination lamp with door operated switch shall be provided for each compartment.</p> <p>Interconnection & Earthing</p> <p>Interconnection Between HT switchgear & Transformer using 1Gx185sq. mm XLPE Single core cable & Interconnection between Transformer & LT switchgear using Busbars. Internal earthing connections by GI Strips.</p>					

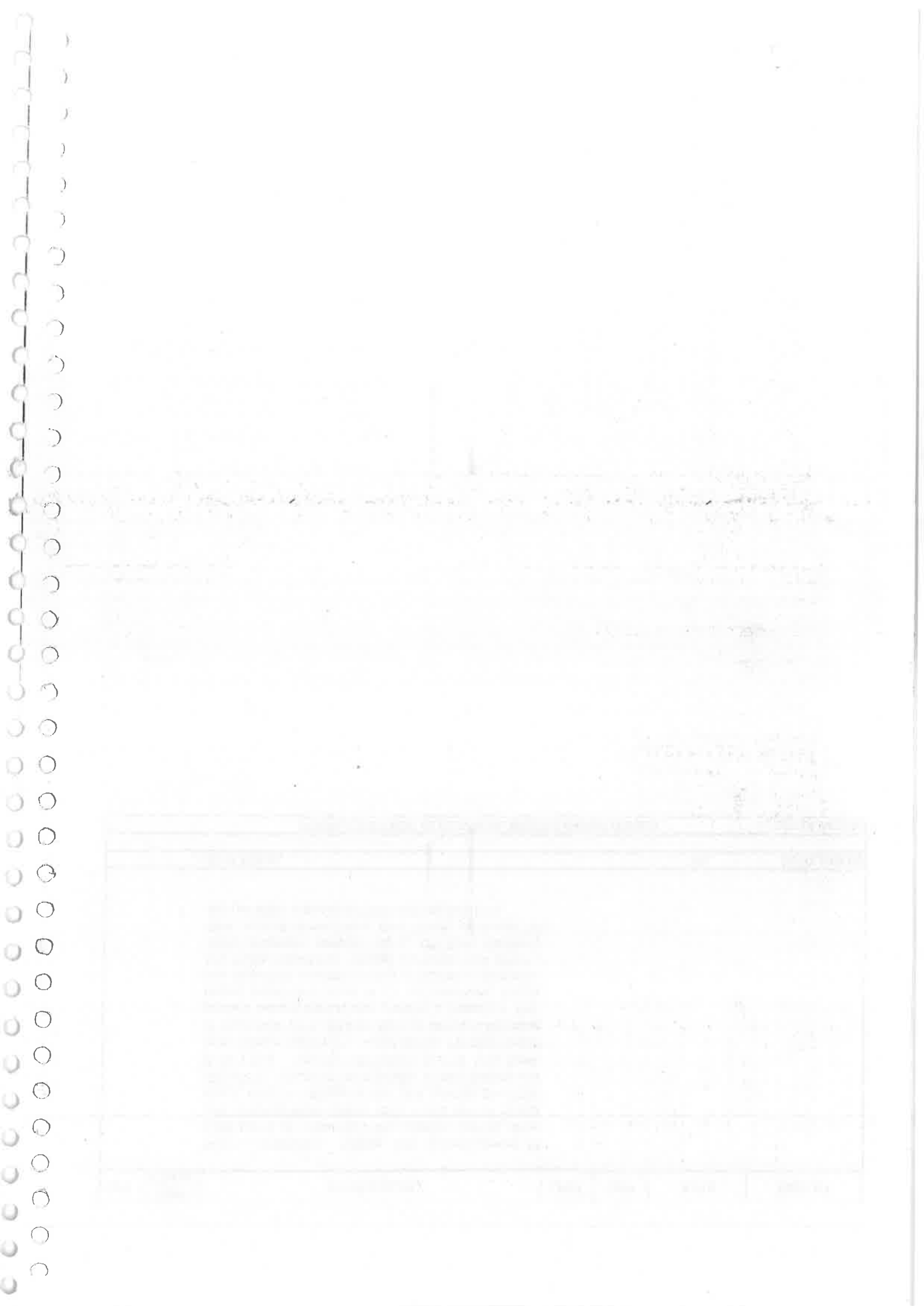
SR.	ITEM CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
		INCOMERS 1 nos. 2000Amp 4 pole ACB EDO, 50 KA with static releases				
		INDICATING PANEL All incoming MCCB shall have digital Ammeter / Voltmeter with Inbuilt selector switch (EM6400 / EM6436) C.T. shall be of 15VA class 1 type and shall be resin cast type 3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse. 3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder. Incomer panels shall be suitable for terminating suitable nos. 3.5 core 300 sqmm A2XFY cable entry required.				
		BUS BARS 2000AMP, 500 Volts, 3 phase 50 Hz FP Copper bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A				
		OUTGOINGS - 1 no. 1250 AMPS TP ACB, 50 KA with Static Release 3 no. 630 AMPS FP MCCB, 35 KA with Static Release 3 no. 400 AMPS FP MCCB, 25 KA with Static Release 4 no. 200 AMPS FP MCCB, 25 KA with Static Release 2 no. 100 AMPS FP MCCB, 25 KA with thermal magnetic releases 2 no. 63 AMPS FP MCB, 10 KA with thermal magnetic releases				
3.2	MR	External Lighting panel as per drawing at Panel room	No	4	79,988.00	3,19,952.00
		INCOMERS 1 no. 100Amp FP MCCB, 16 KA with thermal magnetic releases contactor				
		INDICATING PANEL 63AMP FP Digital 7 Days 24 Hrs. programmable timer with suitable contactor - 2 nos. 3 nos. phase LED type indicating lamps; each lamp shall have one toggle switch backed up with HRC fuse. 3 nos. indicating LED lamp on each incomer feeder for indicating the status of feeder. Incomer panels shall be suitable for terminating suitable nos. 3.5 core 35sqmm A2XFY cable entry				

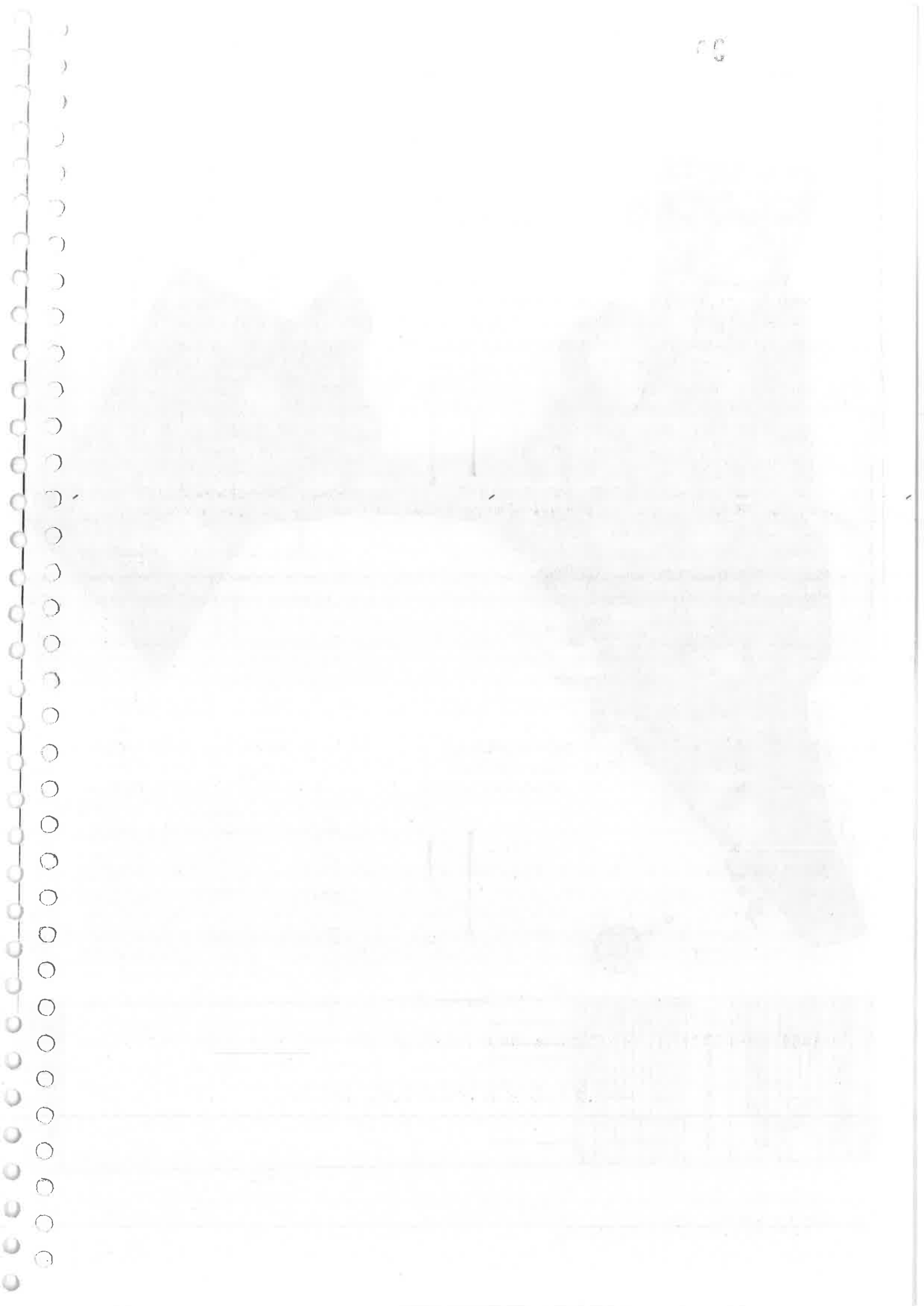
SR. ITEM	CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
3.3	MR	<p>BUS BARS 100 AMP, 500 Volts, 3 phase 50 Hz FP Copper bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A</p> <p>OUTGOINGS - 3 no. 63 AMP FPMCB, C curve 10KA 3 no. 40 AMP FPMCB, C curve 10KA 3 no. 16 AMP DP ELMCB, 100 mA 3 no. 25 AMP DP ELMCB, 100 mA</p> <p>Supply, installation, testing & commissioning of APFCR panel for 500 KVAR, 16stage - as per SLD drawing.</p>	no	7	6,36,438.00	44,55,066.00
		<p>INCOMERS 1 no. 1250 AMPS TP ACB, EDO with static releases (35 KA)</p> <p>Micro processor based automatic power factor control relay (including power factor meter) in 16 steps for automatic cut off or add on capacitor units to keep the power factor at 0.95 to unity with variation of loads. All associated auxiliary contractors</p> <p>BUS BARS 1250 AMP, 500 Volts, 3 phase 50 Hz TPN high conductivity electrolytic Copper bus bars of suitable length - current ratio 1 sq mm = 1.2 A</p>				
		<p>OUTGOINGS - Fix type capacitor : 1 no. of 200AMPS TP MCCB, 25KA, 50 KVAR capacity, auto manual selector switch, start stop push button, on/off indicating lamps complete including 50 KVAR APP type Capacitors bank with interconnection</p> <p>Fix type capacitor : 1 no. of 125AMPS TP MCCB, 25KA, 25 KVAR capacity, auto manual selector switch, start stop push button, on/off indicating lamps complete including 25 KVAR APP type Capacitors bank with interconnection</p> <p>5 no. of 200AMPS TP MCCB, 25KA, 25KA, and capacitor duty switching contactor for 50 KVAR capacity, auto manual selector switch, start stop push button indicating on/off indicating lamps and delay timer complete including 50 KVAR APP type Capacitors bank with interconnection.</p> <p>3 no. of 125AMPS-TP MCCB, 16KA, and capacitor duty switching contactor for 25 KVAR capacity, auto manual selector switch, start stop push button indicating on/off indicating lamps and delay timer complete including 25 KVAR APP type Capacitors bank with interconnection.</p>				

Sr.	Item Code	Particulars	Unit	Qty	Rate	Amount
		4 no. of 63AMPS TP MCB and capacitor duty switching contactor for 15 KVAR capacity, auto manual selector switch, start stop push button indicating on/off indicating lamps and delay timer complete including 15 KVAR APP type Capacitors bank with interconnec 4 no. of 40AMPS TP MCB and start stop push button indicating on/off indicating lamps and delay timer complete including 10 KVAR APP type Capacitors bank with interconnections				
SECTION - 4.0 CABLES & CABLE TERMINATION						
SUB TOTAL						
						Rs. 1,20,12,143.00
4.0	MR	Procuring, supplying, transporting, unloading and storing of 1.1 KV, XLPE insulated grade copper / aluminum cables as described below. All cables shall be as per specifications				
4.1	MR	300 sq mm x 3.5 C A2 X FY cable	RMT	7028	1,356.00	95,29,968.00
4.2	MR	35 sq mm x 3.5 C A2 X FY cable	RMT	60	215.00	12,900.00
4.3	MR	10 sq mm x 4 C A2 X FY cable	RMT	4300	129.00	5,54,700.00
4.4	MR	240 sqmm x 3C 11KV HT XLPE cable - (1900 mtr CABLE ALREADY AT SITE STOCK)	RMT	4197	1,543.00	64,75,971.00
SUB TOTAL						
						Rs. 1,66,73,539.00
SECTION -5.00 EXTERNAL ELECTRIFICATION						
5.1	MR	1200 mm dia ceiling fan of high speed double ball bearing five star rating white colour fan crompton make. (supply included)	No	14	1,678.00	23,492.00
5.2	MR	450 mm dia exhaust fan of PVC body with louvers. Usha make - Iexus model or approved equivalent. (supply included)	No	14	2,207.00	30,898.00

SR.	ITEM CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT
5.3	MR	<p>Supply, installation, testing and commissioning of 8 mtr above ground Octagonal, single arm poles for mounting of 45W LED fixture at 8 mtr height with help of Arm. The rates shall be inclusive of necessary foundation (minimum 600 x 600 mm) with anchor bolts etc complete. Supply of hot dipped galvanized (in single dip to average 70 micron) octagonal pole made of 4mm thick steel plate having base plate 240x240x16mm window and flush cover with locking arrangement at suitable height from base for cable termination block pole suitable reinforced with welded steel section at window cut section to make the strength of pole unaffected, including temple and anchor plate 240x240x3mm with 4 nos 700mm long 20mm dia foundation bolts (EN8 grade), 8 metre high, minimum dia 162 mm at bottom and 75mm at top, Supply and fixing following street light pole bracket on existing pole made out of 50mm dia MS 'B' class pipe welded to 300 mm long MS pole canopy of suitable dia at an angle of 102.50 including having MS triangular stiffener of size 150x50 x 5mm thick, making arrangement for lighting the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. Single Over Hang 1.50 metre Long as required.</p>	No	145	21,500.00	31,17,500.00
5.4	MR	<p>Supply, installation, testing and commissioning of 8 mtr above ground Octagonal, single arm poles for mounting of 45W LED fixture at 8 mtr height with help of Arm. The rates shall be inclusive of necessary foundation (minimum 600 x 600 mm) with anchor bolts etc complete. Supply of hot dipped galvanized (in single dip to average 70 micron) octagonal pole made of 4mm thick steel plate having base plate 240x240x16mm window and flush cover with locking arrangement at suitable height from base for cable termination block pole suitable reinforced with welded steel section at window cut section to make the strength of pole unaffected, including temple and anchor plate 240x240x3mm with 4 nos 700mm long 20mm dia foundation bolts (EN8 grade), 8 metre high, minimum dia 162 mm at bottom and 75mm at top, Supply and fixing following street light pole bracket on existing pole made out of 50mm dia MS 'B' class pipe welded to 300 mm long MS pole canopy of suitable dia at an angle of 102.50 including having MS triangular stiffener of size 150x50 x 5mm thick, making arrangement for lighting the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. Single Over Hang 1.50 metre Long as required.</p>	No	38	90,000.00	34,20,000.00

SR. ITEM CODE	PARTICULAR	UNIT	QTY	RATE	AMOUNT	
<p>Solar panel of street light with capacity 200Wp, solar cells polycrystalline silicon cells, make of cell q cell/ bosch, solar cell efficiency min 14%, junction box IP65, IEC 61215, mounting frame powder coated. Battery and Battery box : capacity 12V,200Ah @ C10, type Lead-acide tubular battery of Low maintenance, Permitted depth of discharge 75%, Battery Backup 30hours Mounting position Bottom Battery box material & protection Pre-coated galvanized sheet of >1 mm thickness. Battery box protection powder coating of 60micron thickness. Mfg.Exide,HBL,AMCO. Charge controller type MPPT (micro processor based), Rating 12V,7.5A, Efficiency 94%, no-load current less than 10mA, enclosure for charger IP65, make PHILIPS/PHOCOS/SPECCA.</p>						
SUB TOTAL					Rs.	65,91,890.00
TOTAL COST FOR ELECTRICAL WORKS (NDSR ITEMS)						6,07,85,742.00





PLINTH AREA ESTIMATE

Name of Works: - C/o Technology incubation centre for IIT D & M at Jabalpur (MP)

REPORT

History:- This Preliminary estimate amounting to Rs. 16,66,44,700/- including 3% contingencies and 5.618% consultancy fee has been framed to meet the probable cost of the above work and for obtaining Administrative Approval & Expenditure Sanction from the including contingencies.

Design & Scope:- The Preliminary estimate has been framed based on the following architectural drawings, developed by consultant architects M/s Architects Atelier, Chandigarh on-Behalf of PDPM IIT D&M, Jabalpur (MP)

Sr. No.	Dr. No.	Description
1.	A-01	Ground Floor Plan
2.	A-02	First Floor Plan
3.	A-03	Second & third Floor Plan
4.	A-04	Front elevation
5.	A-05	Left back side elevation
6.	A-06	Right back side elevation
7.	A-07	Section

The estimates provides for construction of Technology incubation centre in Ground +3 upper floor constructions. The building shall be RCC framed Structure. Capacity of soil information is assumed at 180Kn/Sqm, yet to be determined.

- The Incubation Centre building comprises of the following facilities :
- 1) Offices/Stores-20 Nos.
 - 2) Conference Halls- 2 Nos.
 - 3) Seminar Room-2Nos.

Providing decent workplace to achieve maximum efficiency, positive work culture and better coordination were the main objectives of the project. As one enters the building at the ground floor, a central 3-tier top-lit atrium covered with poly-carbonate sheet at the top welcomes you. The central space sustains a well-lit and stimulating setting that weaves through and connects the whole structure. Pseudo Wall with funder max cladding and niches in at each level is implemented as the main highlighting elevational feature enhancing the massing of the building. The building shall be centrally air conditioned with totally automated building management & automation system. The civil works shall consist of the following:

Excavation: The site contains black cotton soil of about 300 mm depth after which we have ordinary rock of about 600 mm depth & them hard rock for another 600 mm depth as shown the soil bearing report.

For Architects Atelier
Partner

Foundations: The building shall comprise of isolated footing as the soil bearing capacity is quite high. All the foundations shall be of Reinforced Cement Concrete.

DPC: The plinth of the building is raised by about 900mm. there shall be a plinth beam running all around of about 380x450 mm hence there is no need of providing an additional DPC.

Structure: The building shall comprise of an RCC framed structure with RCC flat roof on the entire area.

Walls: The infill walls shall be made of locally available best quality bricks plastered on both sides.

Flooring: The entire building shall have 600x600 vitrified flooring, the staircases shall have granite flooring, the toilet shall have ceramic tiles flooring.

Finishing: The entire plastered area shall be finished with oikos ultrashield paint. The ceilings shall not be painted at all because of false ceiling. The seminar hall and conference hall walls shall have sound insulating panels of himalyan acoustics/omac/optra, the entire building shall have false ceiling and Optra ceilings of glass wool for better acoustics. The ceiling shall be 600x600 mm modular ceiling of 15mm grid with classic lite tiles with Gypsum board bandings on the sides along the perimeters. The office area shall have Dune premium tile ceiling.

Joinery: The toilets ventilator & doors chowkhats shall have aluminium joinery. The rest of the doors chowkhats shall be of second class teak wood. The doors shall be of pre-laminated flush door shutters for the entire building including. The entire glazing shall of curtain walls with 24 mm thick double glass units as details. The main entrance shall have spider fitting with automatic doors. The internal partitions shall be 12 mm thick toughened glass to segregate AC areas from non AC areas. The entire railing shall be of stainless steel in 304 grade. The central courtyard shall be covered using 16mm thick multivall polycarbonate sheet.

Services: The building shall have all the services running exposed on the concrete ceiling to allow for ease of maintenance. They shall be concealed behind the false ceilings. The entire building shall have computer networking cables & UPS supply running to every room. Provision shall be made for projectors in every room. There shall be occupancy sensors at all location to switch on/off the lighting automatically. The toilets shall have automatic flushing urinals. The entire piping shall be PPR for water supply. There is a provision for handicap toilet & handicap access to all locations.

SPECIFICATION: the work shall be carried out as per CPWD specifications 2009 Vol I to II.

RATE: - As per PAR 2007 with upto date correction slips duly enhanced by proposed cost index of 143 for Jabalpur as on 01.05.12.

COST: - Rs. 16,66,44,700/- including 3% contingencies and consultancy fee.

The cost projected in this estimate is liable to revision due to probable escalation in cost of construction apart from other reasons such as change in scope, area, design, specification etc, if, and as desired by the client department at a later date.

For Architects Atelier

Partner

GENERAL ABSTRACT OF COST

Name of Work : - C/o Technology Incubation Centre at PPM III T, D&M Campus, Jabalpur (MP)

S.No.	DETAILS OF SUB HEAD		As per Original PE	
	CIVIL	ELECT.	TOTAL	
1	Building Works	98,368,821	40,618,801	138,987,623
2	Bulk Services	4826250	320000	5,146,250
	TOTAL	103,195,071	40,938,801	144,133,873
	Add for GRIHA specifications and items like Aac blocks , LED lights	5.00%		7,206,694
	Add for Quality assurance @ 1%	1.00%		1,441,339
	Add for labour cess @ 1%	1.00%		1,441,339
	Architects fee @5.618%	5.62%		8,097,441
	Add for contingencies @ 3%	3.00%		4,324,016
	TOTAL			166,644,701
	Say			166,644,700

for architects atelier
 For Architects Atelier
 (partner)
 Partner

ABSTRACT OF COST
 Name of Work : - C/o Technology Incubation Centre at PDM IIT, D&M Campus, Jabalpur (MP)

Sl. No.	Sub Head and Item of work	Qty	Rate	Unit	Amount
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SH-1: MAIN BUILDING

Plinth Area	GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	Say
sqm	914	745	824	824	3307.00
sqm					3307

1 CIVIL

1.1	RCC Framed Structure of normal floor height of 3.35m.	3,307	13,200	Sqm	43,652,400	PAR 07
1.2	Every 0.30 m deeper foundation over normal depth of 1.2 (on GF only)	914	150	Sqm	137,100	PAR 07
1.3	Extra for additional floor height (4.5 - 3.35=1.15m)	13228	150	Sqm	1,984,200	PAR 07
1.4	Extra for 0.30 metre higher plinth over normal 0.6 m(0.9m)	3307	150	Sqm	496,050	PAR 07
1.5	Extra for resisting earthquake forces	3307	630	Sqm	2,083,410	PAR 07
1.6	Extra for larger modules over 35 sqm	3307	990	Sqm	3,273,930	PAR 07
1.7	Extra for vitrified tiles @Rs 716/sqm	2,646	716	Sqm	1,894,250	PAR 07
1.8.1	Extra for high performance curtain wall glass instead of reflective or double float glass	679	8,070	Sqm	5,479,530	MR
1.8.2	Extra for pre-construction antimite treatment	914	226	Sqm	206,564	MR
1.8.3	Extra for polycarbonate dome in central courtyard	93	3,766	Sqm	350,238	MR
1.8.4	Extra for Fundermax/perforated aluminium sheet on exterior wall	2,000	2,690	Sqm	5,380,000	MR
1.8.5	Extra for false ceiling @Rs 646/sqm of carpet area	2,646	646	Sqm	1,709,058	MR
1.8.6	Extra for acoustic wall insulation in seminar halls	1,153	2,690	Sqm	3,101,570	MR
Services						
1.8	Internal water supply and sanitary installation on 'A'	53,521,340	4	%	2,140,854	PAR 07
1.9	External service connection on 'A'	53,521,340	5	%	2,676,067	PAR 07
					Total	73,283,369
					Enhancement over PAR 2007 rate as per approved cost index of 143 i.e. add @ 43%	
						25,085,452
					Total	98,368,821
					TOTAL X + Y #	98,368,821

For Architects Atelier
 Partner

Name of Work : - C/o Technology Incubation Centre at PDM IIT, D&M Campus, Jabalpur (MP)

Sl. No.	Sub Head and Item of work	As per Revised PE	Qty	Rate	Unit	Amount
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SH-III : BULK SERVICES

1) Civil

1.1	Over Head Tank without independent staging	75000	9.00	Litre	675000	PAR,2007
1.2	Under ground sump including for fire fighting	300000	9.00	Litre	2700000	PAR,2007
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e.add @ 43% on PAR 2007 items				1451250	
	TOTAL				3375000	
					4826250	

2) Electrical

2.1	Booster pumps for underground sump including accessories	2	160,000.00	Each	320,000	MR
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e.add @ 43% on PAR 2007 items					
	TOTAL				320000	
					320000	

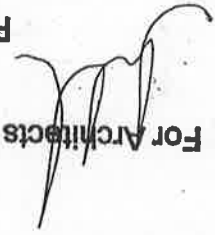
for architects Ateller
 For Architects Ateller
 (partner)
 Partner

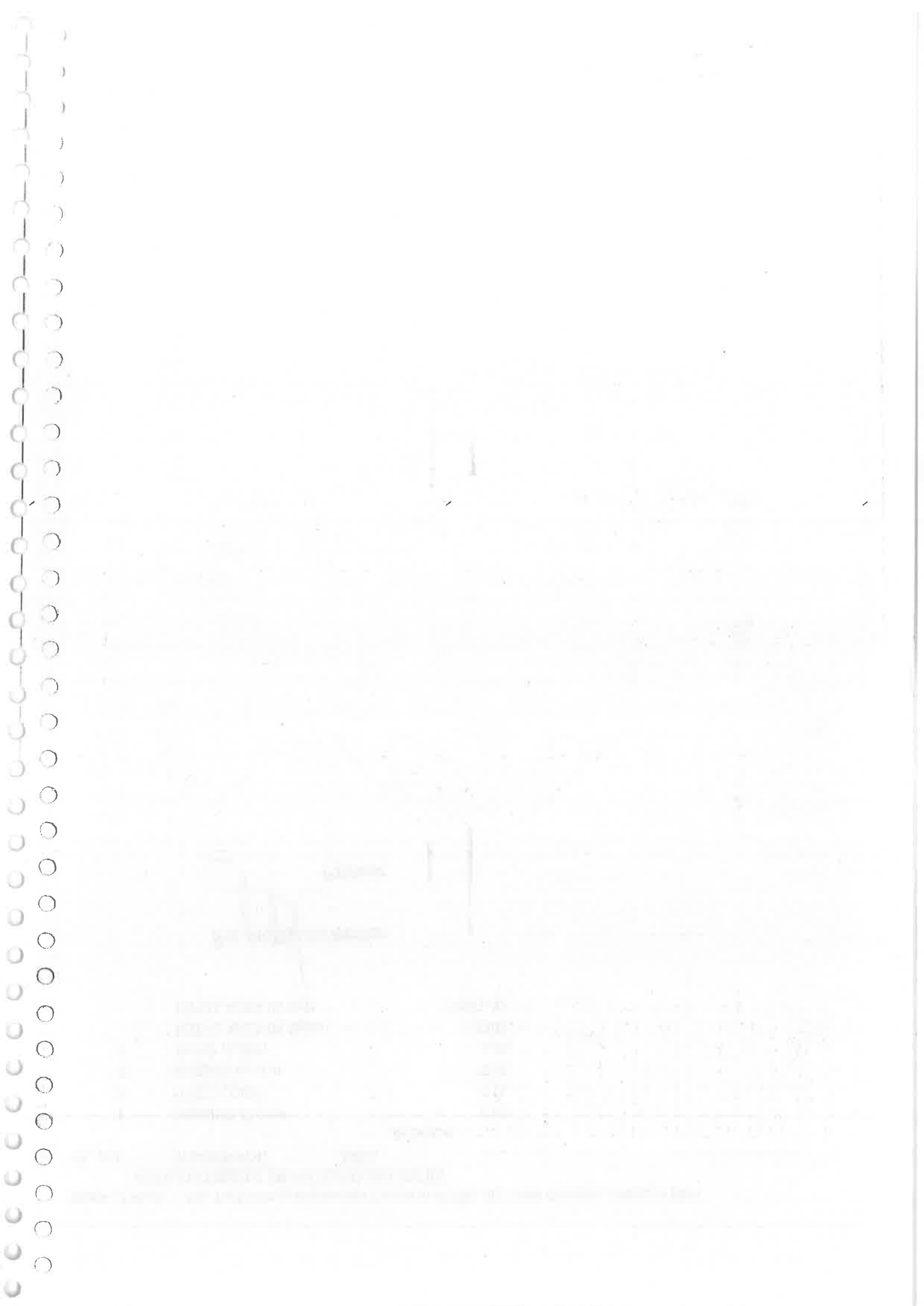
Name of Work : - C/o Technology Incubation Centre at PDM IIT, D&M Campus, Jabalpur (MP)

AREA STATEMENT OF INCUBATION CENTRE

SR. NO.	DESCRIPTION	AREA
1	GROUND FLOOR	914
2	FIRST FLOOR	745
3	SECOND FLOOR	824
4	THIRD FLOOR	824
	TOTAL AREA IN Sqmt	3307
	TOTAL AREA IN sqft	35583.32

BLOCK-A

For Architects Atelier

Partner



FIRST FLOOR PLAN



TOTAL COVERED AREA ON
 GROUND FLOOR = 914 SQ. MT
 FIRST FLOOR = 745 SQ. MT
 SECOND FLOOR = 824 SQ. MT
 THIRD FLOOR = 824 SQ. MT
 TOTAL = 3397 SQ. MT

TOTAL COVERED AREA ON
 FIRST FLOOR = 745 SQ. MT

NO.	DATE	REVISION
1	12-12-12	REVISION FOR DISCUSSION
2	12-12-12	REVISION FOR DISCUSSION

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For Architect's Signature

 P. Jit Jabalpur

**JIT JABALPUR
 INCUBATION CENTRE
 1st FLOOR PLAN**

NO.	DATE	REVISION
1	12-12-12	REVISION FOR DISCUSSION
2	12-12-12	REVISION FOR DISCUSSION

Scale: 1/8" = 1'-0"
 Date: 12-12-12
 Architect: Jit Jabalpur
 Client: Jit Jabalpur
 Project: Incubation Centre
 Drawing No: 1st Floor Plan

TOTAL COVERED AREA ON
 GROUND FLOOR = 914 SQ. MT
 FIRST FLOOR = 745 SQ. MT
 SECOND FLOOR = 824 SQ. MT
 THIRD FLOOR = 824 SQ. MT
 TOTAL = 3307 SQ. MT

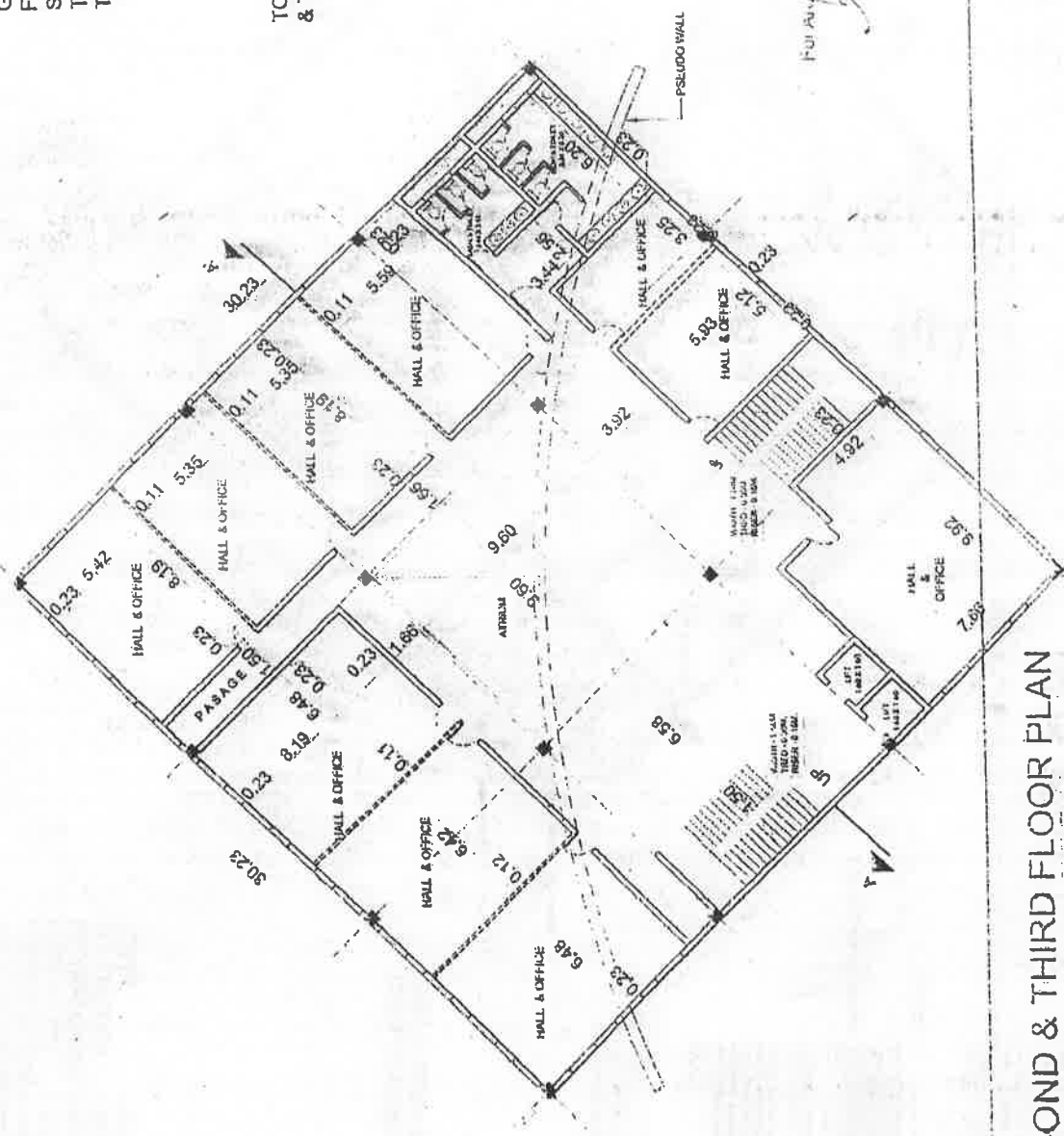
TOTAL COVERED AREA ON SECOND
 & THIRD FLOOR = 824 SQ. MT

NO.	DATE	REVISION
1	15-03-12	AS PER DISCUSSION
2	17-04-12	AS PER DISCUSSION

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FILE NAME: - sruv
 No. 111
**IIT JABALPUR
 INCUBATION CENTRE
 SECOND & THIRD FLOOR**

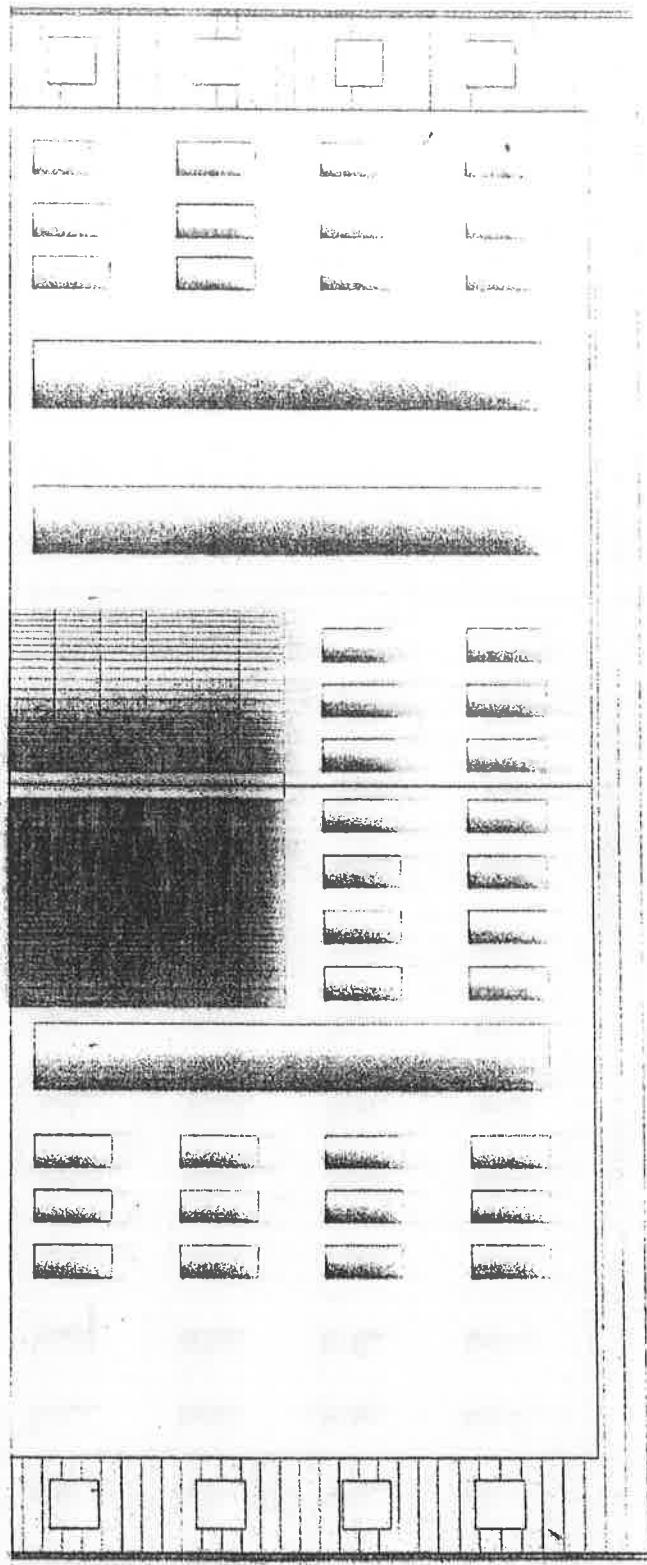
DATE: 15-03-12
 SCALE: 1/8" = 1'-0"
 SHEET NO: A-03
 DRAWING NO: 111-03-03
 PROJECT NO: 111-03-03
 ARCHITECTS: atelier architects atelier pvt. ltd. architects atelier pvt. ltd. such tech projects pvt. ltd.



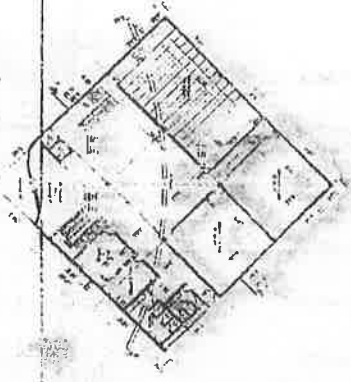
Fuji Raju
 P. architect

SECOND & THIRD FLOOR PLAN

FRONT ELEVATION



PSEUDO WALL
 16.50 M
 13.50 M
 9.00 M
 4.50 M
 2.0 M



NOTE

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For Architect/Client
Dr. JABALPUR INCUBATION CENTRE
 ELEVATION
 Patient

Scale: 1:100
 Date: 11/12/20
 Project: 2000/20

Architect	Dr. JABALPUR INCUBATION CENTRE
Client	Dr. JABALPUR INCUBATION CENTRE
Scale	1:100
Date	11/12/20
Project	2000/20
Architect/Contractor/Owner	Dr. JABALPUR INCUBATION CENTRE
Architect/Contractor/Owner	Dr. JABALPUR INCUBATION CENTRE
Architect/Contractor/Owner	Dr. JABALPUR INCUBATION CENTRE
Architect/Contractor/Owner	Dr. JABALPUR INCUBATION CENTRE

PSEUDO WALL

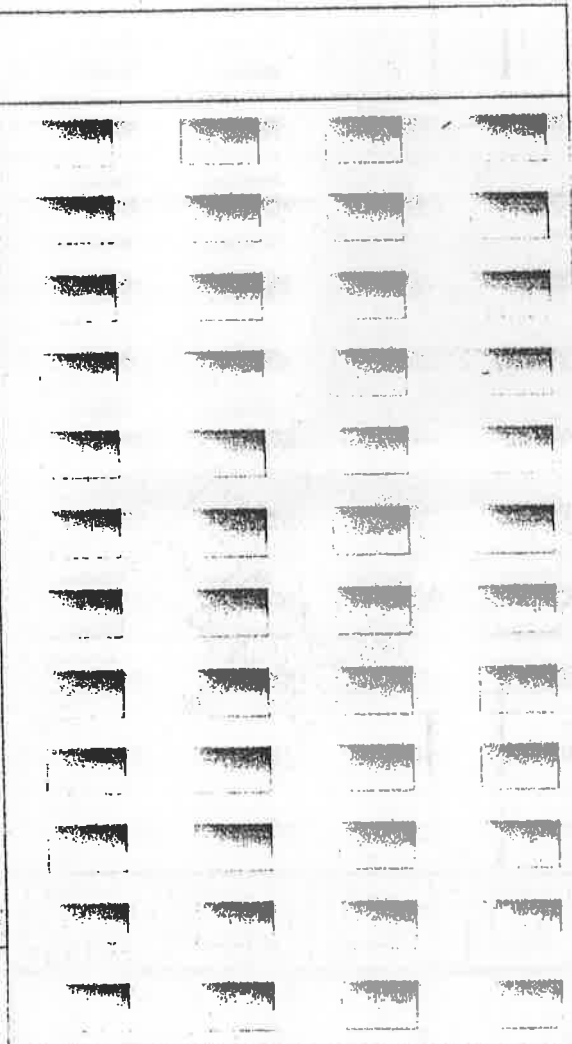
± 16.00 M

± 13.50 M

± 9.00 M

± 4.50 M

± 0.00 M



LEFT BACK SIDE ELEVATION

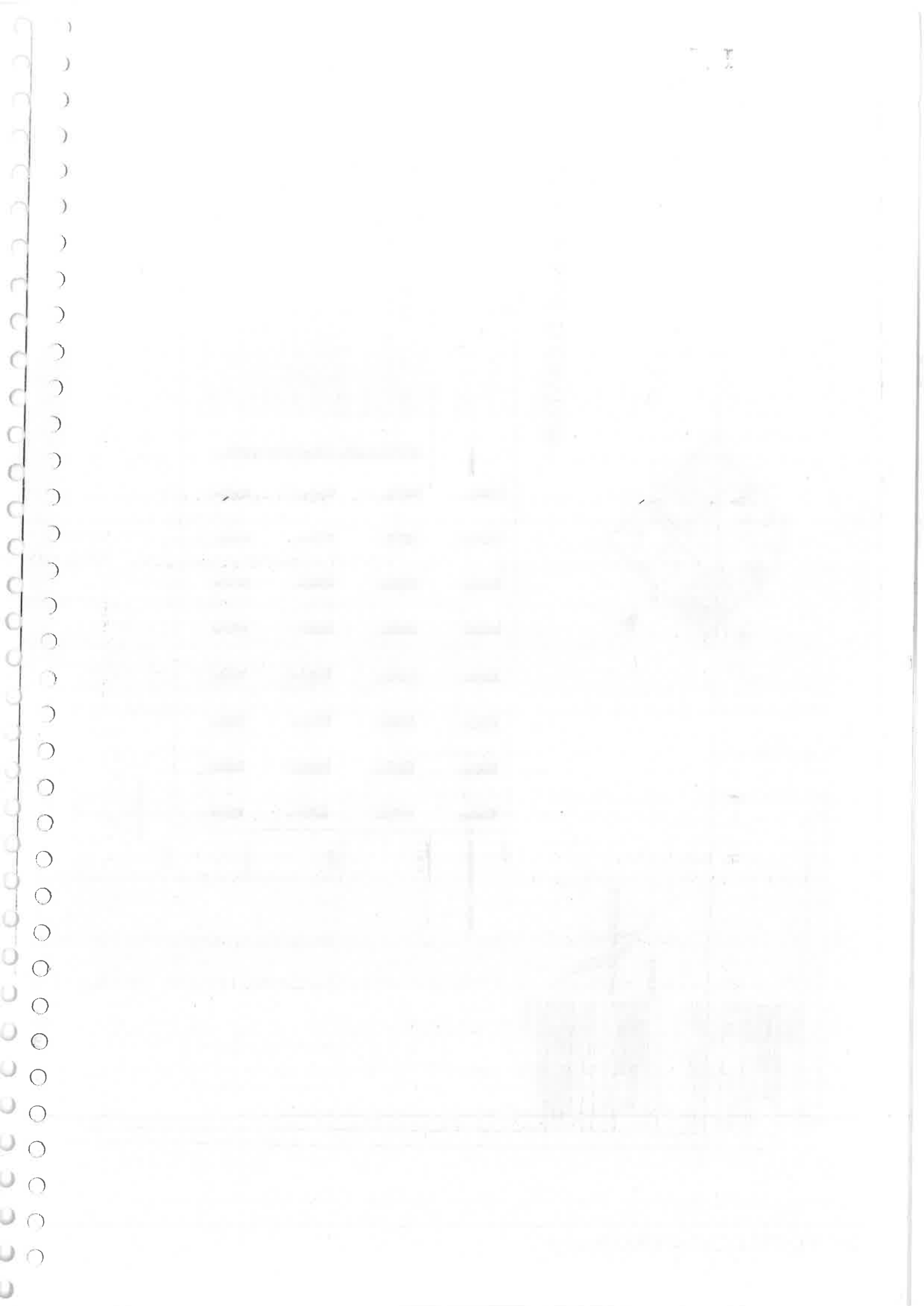


For Architectural Muller
Pulitad

NOTE
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TEL: 0212 511111
DATE: 15/05/2018
PROJECT: IIT JABALPUR INCUBATION CENTRE
TYPE: ELEVATION

SCALE: 1:50
DATE: 15/05/2018
PROJECT: IIT JABALPUR INCUBATION CENTRE
TYPE: ELEVATION
SCALE: 1:50
DATE: 15/05/2018
PROJECT: IIT JABALPUR INCUBATION CENTRE
TYPE: ELEVATION



PLINTH AREA ESTIMATE

Name of Works : - C/o Multi Utility centre for IIT D & M at Jabalpur (MP)

REPORT

History:- This Preliminary estimate amounting to Rs. 10,61,55,300/- including 3% contingencies and 5.618% consultancy fee has been framed to meet the probable cost of the above work and for obtaining Administrative Approval & Expenditure Sanction from the including contingencies.

Design & Scope:- The Preliminary estimate has been framed based on the following architectural drawings, received from Director, PDPM IIT D&M, Jabalpur and developed by consultant architects M/s Architects Atelier, Chandigarh on-Behalf of PDPM IIT D&M, Jabalpur (MP)

Sr. No.	Drg. No.	Description
1.	A-01	Ground Floor Plan
2.	A-02	First Floor Plan
3.	A-03	Elevations
4.	A-04	Section

The estimates provides for construction of Multi Utility centre in Ground +1 upper floor constructions. The building shall be RCC framed Structure. Capacity of soil information is assumed at 180K_n/Sqm, yet to be determined.

The Multiutility building comprises of the following facilities :

- 1) Bank- 2 Nos.
- 2) P.O.- 1 Nos.
- 3) Restaurant-1 Nos.
- 4) Shops- 18 Nos.
- 5) Community Service Halls- 3 Nos.

The requirements were simple enough but the concept how these requirements are to be dispersed into spaces was challenging. Intelligently developed working on an open concept creating a connection between the interior and the exterior. Faced with linear layout, the length of the space was handled intelligently merging the both ends into curvature. The building is modern in all aspects, such as planning, use of modern materials, its utility, minimalist use of features. Planned in levels, which gives the building a different dimension using pergolas as the main elevational feature. Structural Glazing with heat reflecting glass has been used to reduce transmission of heat to internal areas. The civil works shall consist of the following:

Excavation: The site contains black cotton soil of about 300 mm depth after which we have ordinary rock of about 600 mm depth & them hard rock for another 600 mm depth as shown the soil bearing report.

Foundations: The building shall comprise of isolated footing as the soil bearing capacity is quite high. All the foundations shall be of Reinforced Cement Concrete.

For Architects Atelier

Partner

DPC: The plinth of the building is raised by about 900mm. there shall be a plinth beam running all around of about 380x 450 mm hence there is no need of providing an additional DPC.

Structure: The building shall comprise of an RCC framed structure with RCC flat roof on the entire area.

Walls: The infill walls shall be made of locally available best quality bricks plastered on both sides.

Flooring: The entire building shall have 600x 600 vitrified flooring, the staircases shall have granite flooring, the toilet shall have ceramic tiles flooring.

Finishing: The entire plastered area shall be finished with oikos ultrashield paint. The facade shall be stone clad using stone veneer of 1mm thickness.

Joinery: The toilets ventilator & doors chowkhats shall have aluminium joinery. The rest of the doors chowkhats shall be of certified green wood. The doors shall be of pre-laminated flush door shutters for the entire building including. The entire railing shall be of stainless steel in 304 grade and transparent glass. Rolling shutter is used in shops.

Services: The building shall have all the services running concealed in the concrete ceiling. There shall be occupancy sensors at all location to switch on/off the lighting automatically. The toilets shall have automatic flushing urinals. The entire piping shall be PPR for water supply. There is a provision for handicap toilet & handicap access to all locations.

SPECIFICATION: The work shall be carried out as per CPWD specifications 2009 Vol I to II.

RATE: - As per PAR 2007 with upto date correction slips duly enhanced by proposed cost index of 143 for Jabalpur as on 01.05.12.

COST: - Rs. 10,61,55,300/- including 3% contingencies and consultancy fee.
The cost projected in this estimate is liable to revision due to probable escalation in cost of construction apart from other reasons such as change in scope, area, design, specification etc, if, and as desired by the client department at a later date.

(partner)
Partner

For architects atelier,
For Architects Atelier

GENERAL ABSTRACT OF COST

Name of Work : - C/o Multi Utility Centre at PDM IIT, D&M Campus, Jabalpur (MP)

S.No.	DETAILS OF SUB HEAD	CIVIL	ELECT.	TOTAL
1	Building Works	74,426,342	16,599,187	91,025,529
2	Bulk Services	630000	160000	790,000
	TOTAL	75,056,342	16,759,187	91,815,529
	Add for GRHA specifications and items like Aac blocks , LED lights	5.00%		4,590,776
	Add for Quality assurance @ 1%	1.00%		918,155
	Add for labour cess @ 1%	1.00%		918,155
	Architects fee @5.618%	5.62%		5,158,196
	Add for contingencies @ 3%	3.00%		2,754,466
	TOTAL			106,155,277
	Say			106,155,300

for architects atelier
 For Architects Atelier
 (partner) Partner

for architect's atelier
 For Architects Atelier
 (partner)
 Partner

Item No.	Description	Unit	Quantity	Rate	Amount	Remarks
2.1	Internal electric installation on A	%	12.5	44,137,876	5,517,235	PAR'07
2.2	External service connection on A	-	-	44,137,876	-	PAR'07
2.3	Telephone conduits and wiring on A	%	0.5	44,137,876	220,689	PAR'07
2.4	Power wiring & plugs on A	%	4.0	44,137,876	1,765,515	PAR'07
2.5	Computer conduiting on A	%	0.5	44,137,876	220,689	PAR'07
2.6	Lightning conductors upto 4 storeyed building	%	0.5	44,137,876	220,689	PAR'07
2.7	Add for 1 nos. goods lifts (1 ton)		1	1,475,000	1,475,000	PAR'07
2.8	Fire fighting - automatic alarm system	Sqm	2981	894,300	894,300	PAR'07
2.90	Add for photovoltaic cells/solar panels of 5kw	lumpsum	1	1,500,000	1,500,000	MR
2.10	Add for CCTV system	lumpsum	1	350,000	350,000	MR
		Total			12,164,117	
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e. add @ 43%				4,435,070	
		Total			16,599,187	
		Total			16,599,187	

Name of Work : - C/o Multi Utility Centre at PPM IIT, D&M Campus, Jabalpur (MP)

Sl. No.	Sub Head and Item of work	As per Revised PE	Qty	Rate	Unit	Amount
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SH-III : BULK SERVICES

1) Civil

1.1	Over Head Tank without independent staging	20000	9.00	litre	180000	PAR,2007
1.2	Under ground sump	50000	9.00	litre	450000	PAR,2007
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e.add @ 43% on PAR 2007 items					
	TOTAL				630000	

2) Electrical


2.1	Booster pumps for underground sump including accessories	1	160,000.00	Each	160,000	MR
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e.add @ 43% on PAR 2007 items					
	TOTAL				160000	

for architects atelier
 For Architects Atelier
 Partner (partner)

AREA STATEMENT OF MULTI-UTILITY CENTRE

SR. NO.	DESCRIPTION	AREA
1	GROUND FLOOR	2011
2	FIRST FLOOR	970
	TOTAL AREA IN Sqmt	2981
	TOTAL AREA IN Sqft	32075.56

BLOCK-A

For Architects Atelier

 Partner

10-10-10

10-10-10

10-10-10

10-10-10

PLINTH AREA ESTIMATE

Name of Works: - C/o Professional Labs Complex (Reduced with plinth area of 12663 sqm) for HITD & M at Jabalpur (MP)

REPORT

History:- This Preliminary estimate amounting to Rs. 50,80,82,400/- including 3% contingencies and 3.618% consultancy fee has been framed to meet the probable cost of the above work and for obtaining Administrative Approval & Expenditure Sanction from the including contingencies.

Design & Scope:- The Preliminary estimate has been framed based on the following architectural drawings, received from Director, PDPM HIT D&M, Jabalpur and developed by consultant architect's M/s Architects Atelier, Chandigarh on-behalf of PDPM HIT D&M, Jabalpur (MP)

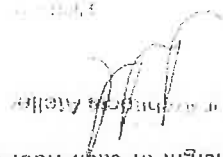
Sr. No.	Drg. No.	Description
1.	A-01	Ground Floor Plan
2.	A-02	First Floor Plan
3.	A-03	Second Floor Plan
4.	A-04	Third Floor Plan
5.	A-05	Fourth Floor Plan
6.	A-06	Fifth Floor Plan
7.	A-07	Sixth Floor Plan
8.	A-08	Elevations
9.	A-09	Sections

The estimates provides for construction of Professional Labs Complex in Ground +7 upper floor constructions. The building shall be RCC framed Structure. Capacity of soil information is assumed at 180kn/sqm, yet to be determined.

The Design Studio building comprises of the following facilities :

- 1) Faculty rooms - 128Nos.
- 2) Labs - 26 Nos.
- 3) Exhibition hall - 1 Nos.
- 4) Cafeteria - 1 Nos.

The building is designed by dividing the requirements into two different blocks, block A and block B, block B consists of all the faculty rooms composed in a semi-circular form using high performance heat reflective glass, which maximizes the light inside with minimum heat gain and the rest of the requirements are placed in different wings abutting from the main semi-circular spine around a central foyer used for display purposes connecting the whole structure and covered at the top with tensile fabric structure of pure white colour. To provide a positive working environment to achieve maximum efficiency was the main objective of the project. The building is developed in levels with height of each floor as 4.5M for block A and height of each floor as 3.0M in block B


 Chandigarh Architects

and these differences are counterbalanced by the provision of stairs and ramps. Full height vertical glazings are used which add character to the otherwise simple facade of the building with solid concrete bands at different levels breaking the monotony. The building shall be centrally air conditioned with totally automated building management & automation system. The civil works shall consist of the following:

Excavation: The site contains black cotton soil of about 300 mm depth after which we have ordinary rock of about 600 mm depth & then hard rock for another 600 mm depth as shown in the soil bearing report.

Foundations: The building shall comprise of isolated footing as the soil bearing capacity is quite high. All the foundations shall be of Reinforced Cement Concrete.

DPC: The plinth of the building is raised by about 900mm, there shall be a plinth beam running all around of about 380x450 mm hence there is no need of providing an additional DPC.

Structure: The building shall comprise of an RCC framed structure with RCC flat roof on the entire area.

Walls: The infill walls shall be made of locally available best quality bricks plastered on both sides with gypsum plaster. The external perimeter walls shall be of AAC blocks.

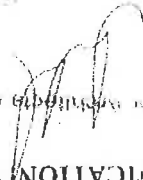
Flooring: The entire building shall have 600x600 vitrified flooring, the staircases shall have granite flooring, the toilet shall have ceramic tiles flooring.

Finishing: The entire plastered area shall be finished with oikos ultrashield paint. The ceilings shall not be painted at all because of false ceiling. The ceiling shall be of 600x600 mm modular ceiling of 15mm grid with Dune premier tiles with Gypsium board bandings on the sides along the perimeters. The central atrium shall be covered with tensile fabric structure.

Joinery: The toilets ventilator & doors chowkhats shall have aluminium joinery. The rest of the doors chowkhats shall be of certified green wood. The doors shall be of pre-laminated flush door shutters for the entire building including. The entire glazing shall of curtain walls with 24 mm thick double glass units as per details. The main entrance shall have spider fitting with automatic doors. The internal partitions shall be 12 mm thick toughened glass to segregate AAC areas from non AAC areas. The entire railing shall be of stainless steel in 304 grade.

Services: The building shall have all the services running exposed on the concrete ceiling to allow for ease of maintenance. They shall be concealed behind the false ceilings. The entire building shall have computer networking cables & UPS supply running to every room. Provision shall be made for projectors in every room. There shall be occupancy sensors at all location to switch on/off the lighting automatically. The toilets shall have automatic flushing urinals. The entire piping shall be PPR for water supply. There is a provision for handicap toilet & handicap access to all locations.

SPECIFICATION the work shall be carried out as per CPWD specifications 2009 Vol 1 to II.

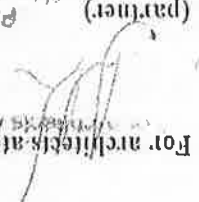

Signature

RATE: - As per PAR 2007 with upto date correction slips duly enhanced by proposed cost index of 143 for Jabalpur as on 01.05.12.

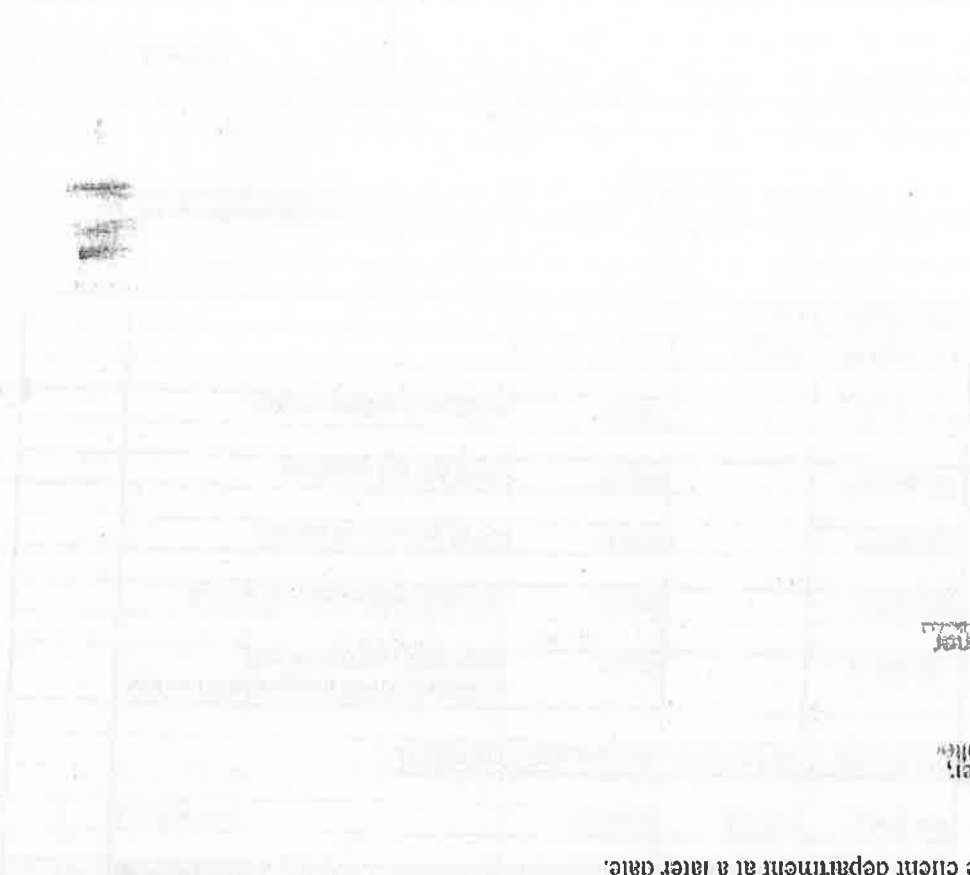
COST: - Rs. 50,80,82,400 /- including 3% contingencies and consultancy fee.

The cost projected in this estimate is liable to revision due to probable escalation in cost of construction apart from other reasons such as change in scope, area, design, specification etc. If, and as desired by the client department at a later date.

For architect's attestation,



(partner)
Partner



GENERAL ABSTRACT OF COST

Name of Work : - C/o Professional Labs Complex at PDM IIT, D&M Campus, Jabalpur (MP)

S.No.	DETAILS OF SUB HEAD	CIVIL	ELECT.	TOTAL
1	Building Works	319,610,246	114,792,716	434,302,960
2	Bulk Services	4826250	320000	5,146,250
	TOTAL	324,336,496	115,112,716	439,449,210
	Add for GRHA specifications and items like Aac blocks, LED lights	5.00%		21,972,461
	Add for Quality assurance @ 1%	1.00%		4,394,492
	Add for labour cess @ 1%	1.00%		4,394,492
	Architects fee @5.018%	5.618%		24,688,257
	Add for contingencies @ 3%	3.00%		13,183,476
	TOTAL			508,082,388
	Say			508,082,400

for architects atelier
 Partner
 (partner)

ABSTRACT OF COST
 Name of Work : C/o Professional Jobs Complex at PDM III, DCM Campus, Jabalpur (MP)

Sl. No.	Sub Head and Item of work	Qty	Rate	Unit	Amount
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SHELL MAIN BUILDING

Sl. No.	Sub Head and Item of work	Qty	Rate	Unit	Amount
1.1	GROUND FLOOR	1191.25	554	sqm	663963.75
1.1	FIRST FLOOR	1191.25	554	sqm	663963.75
1.1	SECOND FLOOR	1191.25	554	sqm	663963.75
1.1	THIRD FLOOR	1191.25	554	sqm	663963.75
1.1	FOURTH FLOOR	1191.25	554	sqm	663963.75
1.1	FIFTH FLOOR	1191.25	554	sqm	663963.75
1.1	SIXTH FLOOR	1083.25	554	sqm	599920.75
1.1	SEVENTH FLOOR	554	554	sqm	306922.00
	TOTAL AREA IN 5qft	8230.75	4432	sqm	3647511.19
	TOTAL AREA IN 5qft	88562.87	47688.32	sqm	4183111.19
	PLINTH AREA	12663		sqm	12663
	BLOCK-A			sqm	
	BLOCK-B			sqm	
	TOTAL AREA			sqm	

1 CIVIL

1.1	RCC Framed Structure of normal floor height of 3.35m	12.663	13.200	sqm	167,148,300	A
1.2	Every 0.30 m deeper foundation over normal depth of 1.2 (on GF only)	12663	150	sqm	1,908,413	PAR 07
1.3	Extra for additional floor height (4.5 x 3.35 = 1.4m)	32623	160	sqm	5,228,450	PAR 07
1.4	Extra for 0.30 more higher plinth over normal (0.5 m/0.8m)	12663	180	sqm	2,279,340	PAR 07
1.5	Extra for resisting earthquake forces	12663	630	sqm	7,977,533	PAR 07
1.6	Extra for larger modules over 36 sqm	12663	990	sqm	12,538,123	PAR 07
1.7	Stronger Structural member to take heavy load above 500 kg/sqm upto 1000 kg/sqm (only in lab area)	8231	860	sqm	7,080,138	PAR 07
1.8	Extra for wired lites @ RS 7.15/sqm	101180	715	sqm	7,253,223	PAR 07
					167,148,300	A
					208,010,868	
1.9	Extra for pre-construction anti-termite treatment	13445	228	sqm	3,064,227	MR
					209,408,398	
✓	Services					
1.10	Internal water supply and sanitary installation on 'A'	167,148,300	4%		6,685,932	PAR 07
1.11	External service connection on 'A'	167,148,300	5%		8,357,415	PAR 07
					223,166,890	
	Enhancement over 'A' at 2007 rate as per approved cost index of 1431 a add @ 13%				60,343,366	
	Total				319,510,245	X
	TOTAL X + Y :				319,510,245	

For Architect's Fee
 [Signature]

for architects atelier
 Partner
 (partner)

Item	Unit	Quantity	Rate	Amount	Code
2.1	Internal electric installation on A		12.6 %	187,148,300	PAR07
2.2	External service connection on A		-	187,148,300	PAR07
2.3	Telephone conduits and wiring on A		0.5 %	187,148,300	PAR07
2.4	Power wiring & plugs on A		4.0 %	187,148,300	PAR07
2.5	Computer cabling on A		0.6 %	187,148,300	PAR07
2.6	Lightning conductors upto 4 storey building		0.6 %	187,148,300	PAR07
2.7	Add for 3 nos. 18 passenger lift	3		2,380,000	PAR07
2.8	Fire fighting - automatic alarm system	300	Sqm	3,798,825	PAR07
2.9	Fire fighting - wet riser system	300	Sqm	3,708,825	PAR07
2.10	Extra for airconditioning @ 1431.000/ton (13sqm/ton)	12863	sqm	50,000	MR
				44,884,316	
				50,031,000	MR
				98,605,346	
				19,287,308	
				114,792,715	
				114,792,715	
				114,792,715	

Enhancement over PAR 2007 rate as per approved cost index of 1431.000 @ 43%

Name of Work : - C/o Professional labs Complex at PDPM IIT, D&M Campus, Jabalpur (MP)

Sl.	Sub Head and Item of work	Qty	Rate	Unit	Amount
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SI-III : BULK SERVICES

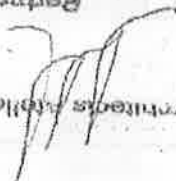
1) Civil					
1.1	Over Head Tank without independent staging	75000	9.00	litre	675000 PAR,2007
1.2	Under ground sump including for fire fighting	300000	9.00	litre	2700000 PAR,2007
				TOTAL	3375000
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e.add @ 43% on PAR 2007 items				1451250
				TOTAL	4826250

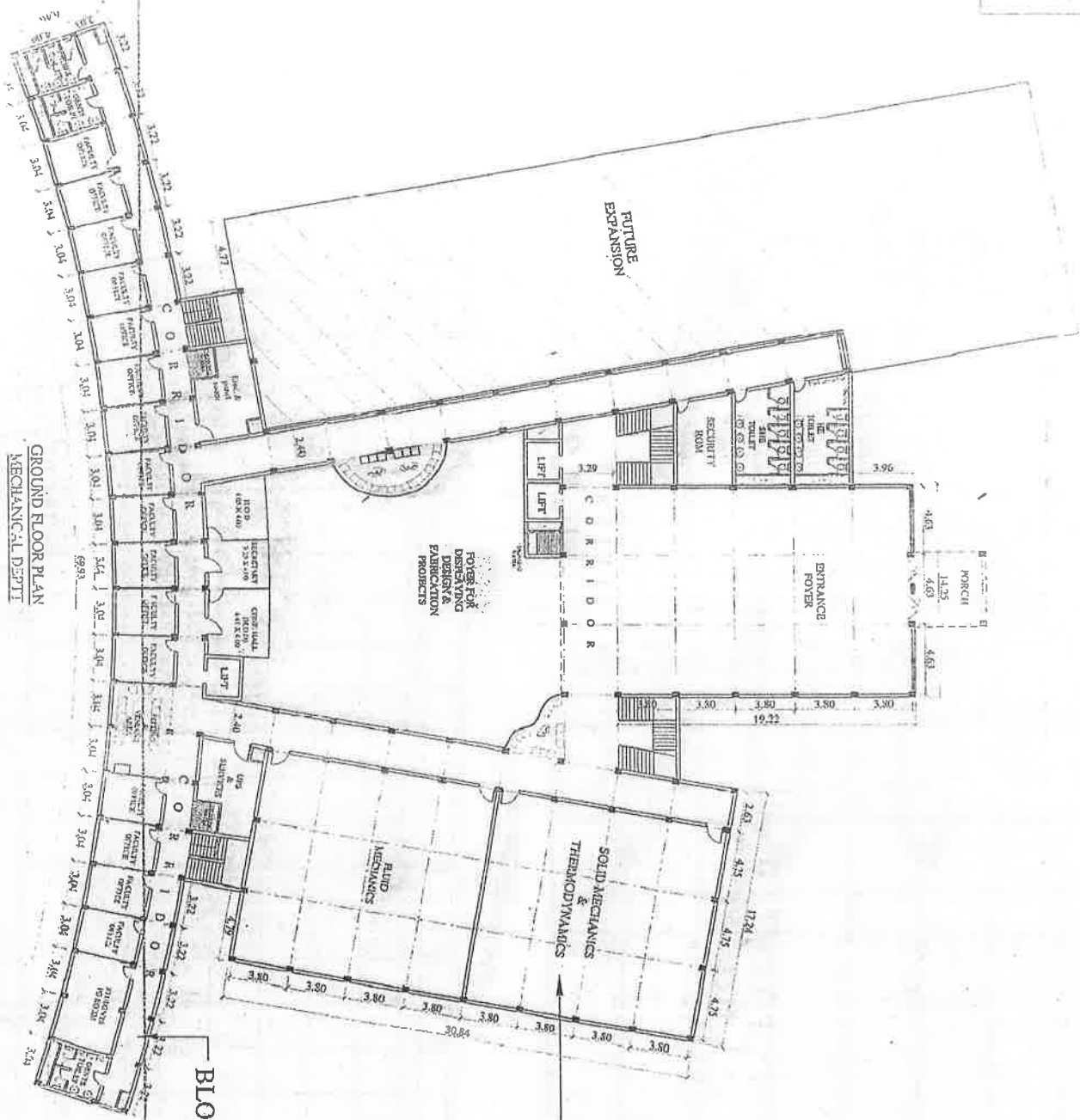
2) Electrical					
2.1	Booster pumps for underground sump including accessories	2	150,000.00	Each	320,000 MR
				TOTAL	320000
	Enhancement over PAR 2007 rate as per approved cost index of 143 i.e.add @ 43% on PAR 2007 items				
				TOTAL	320000

for architects et/lier
 M. Architects Raju
 (partner)

Name of Work : - C/o Professional Labs Complex at PDPM III T, D&M Campus, Jabalpur (MP)

SR. NO.	DESCRIPTION	AREA	BLOCK-A	BLOCK-B	TOTAL AREA
1	GROUND FLOOR	1191.25	554	554	1191.25
2	FIRST FLOOR	1191.25	554	554	1191.25
3	SECOND FLOOR	1191.25	554	554	1191.25
4	THIRD FLOOR	1191.25	554	554	1191.25
5	FOURTH FLOOR	1191.25	554	554	1191.25
6	FIFTH FLOOR	1191.25	554	554	1191.25
7	SIXTH FLOOR	1083.25	554	554	1083.25
8	SEVENTH FLOOR	4432	554	554	4432
	TOTAL AREA IN sqmt	8230.75	47688.32	47688.32	136251.19
	TOTAL AREA IN sqft	88562.87			

For Architects / Civil

 Partner



GROUND FLOOR PLAN
MECHANICAL DEPTT

BLOCK-B

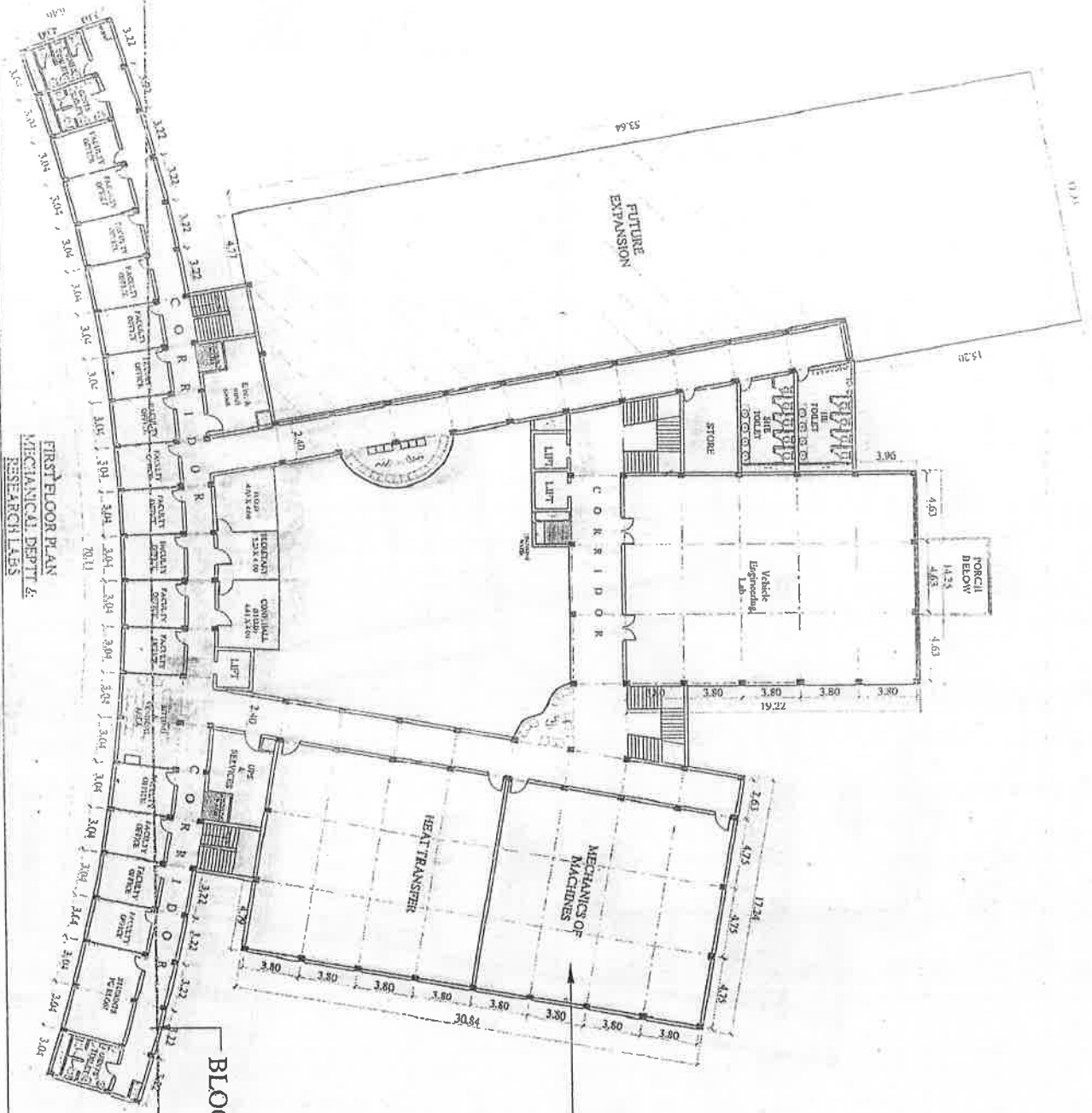
BLOCK-A

For Architects Atelier
Partner

Scale	M 1:50	Date	
Drawn by	MEENA KANOCK	Checked by	MEENA KANOCK
Project Name	IIT JABALPUR DESIGN STUDIO		
Project Location	IIT JABALPUR		
Project No.	A-01		
Project Status	MECHANICAL DEPTT		

NOTE
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AREA STATIMENT (Sqmt)	
BLOCK A :-	
G.F.	1191.25
1F	1191.25
2F	1191.25
3F	1191.25
4F	1191.25
5F	1191.25
6F	1083.25
total	8230.75 (Sqmt)
BLOCK B :-	
G.F.	554
1F	554
2F	554
3F	554
4F	554
5F	554
6F	554
7F	554
total	4432 (Sqmt)
TOTAL(A+B)	= 12662.75 (Sqmt)



FIRST FLOOR PLAN
MECHANICAL DEPT. &
RESEARCH LABS

BLOCK-B

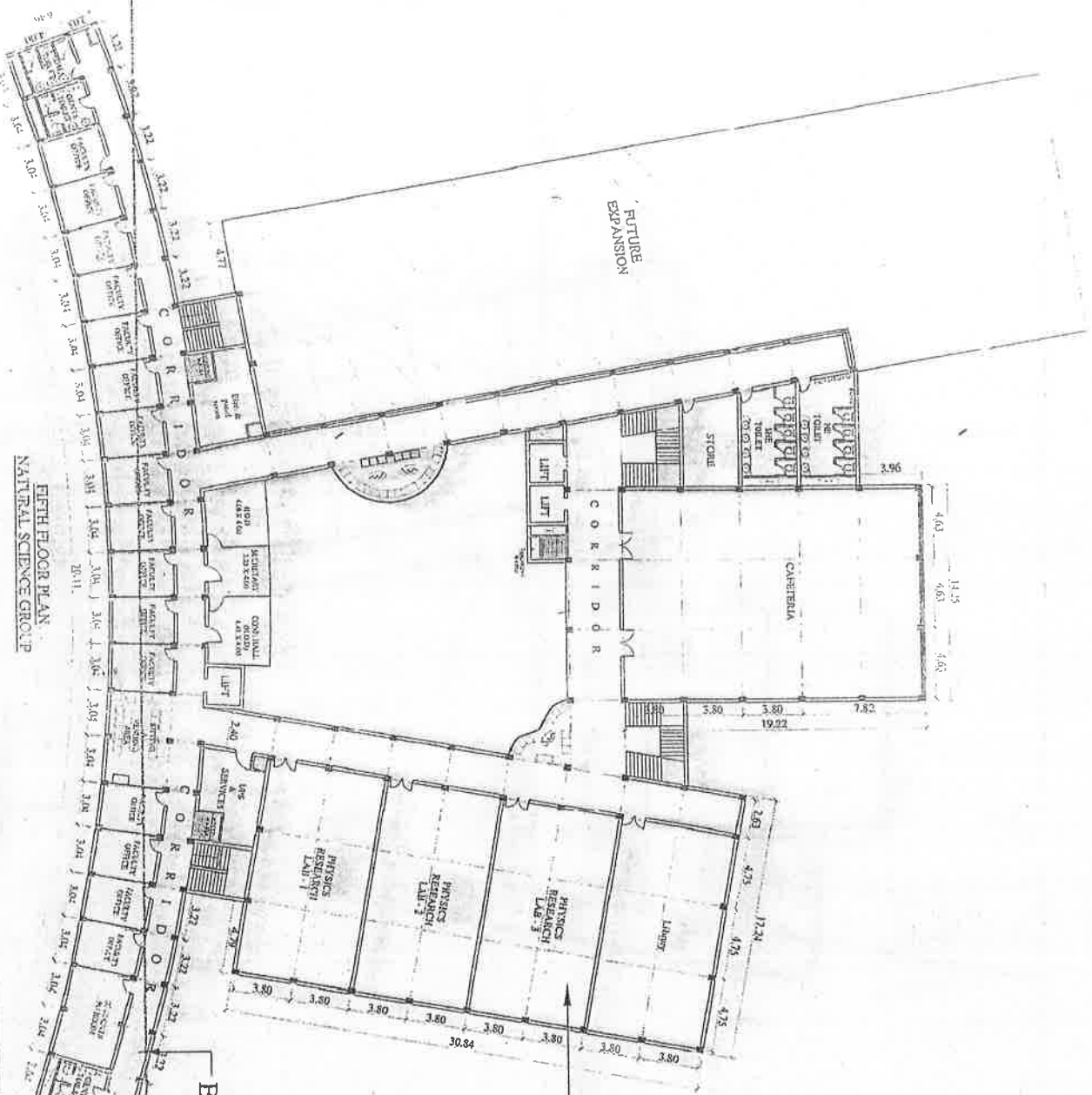
BLOCK-A

Partner
For Architects Atelier

NOTE
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NO.	Date	Revision
1	11/10/20	1
IIT JABALPUR DESIGN STUDIO THE FIRST FLOOR PLAN		
OPTIONAL		

Scale	1:50
Date	11/10/20
Drawn by	ANB
Checked by	ANB
Project Name	MECHANICAL DEPT. & RESEARCH LABS
Client	IIT JABALPUR
Address	WATSON ROAD, JABALPUR
Contact	0761-2531111
Website	www.iitjapalpur.ac.in



FIFTH FLOOR PLAN
NATURAL SCIENCE GROUP

BLOCK-B

BLOCK-A

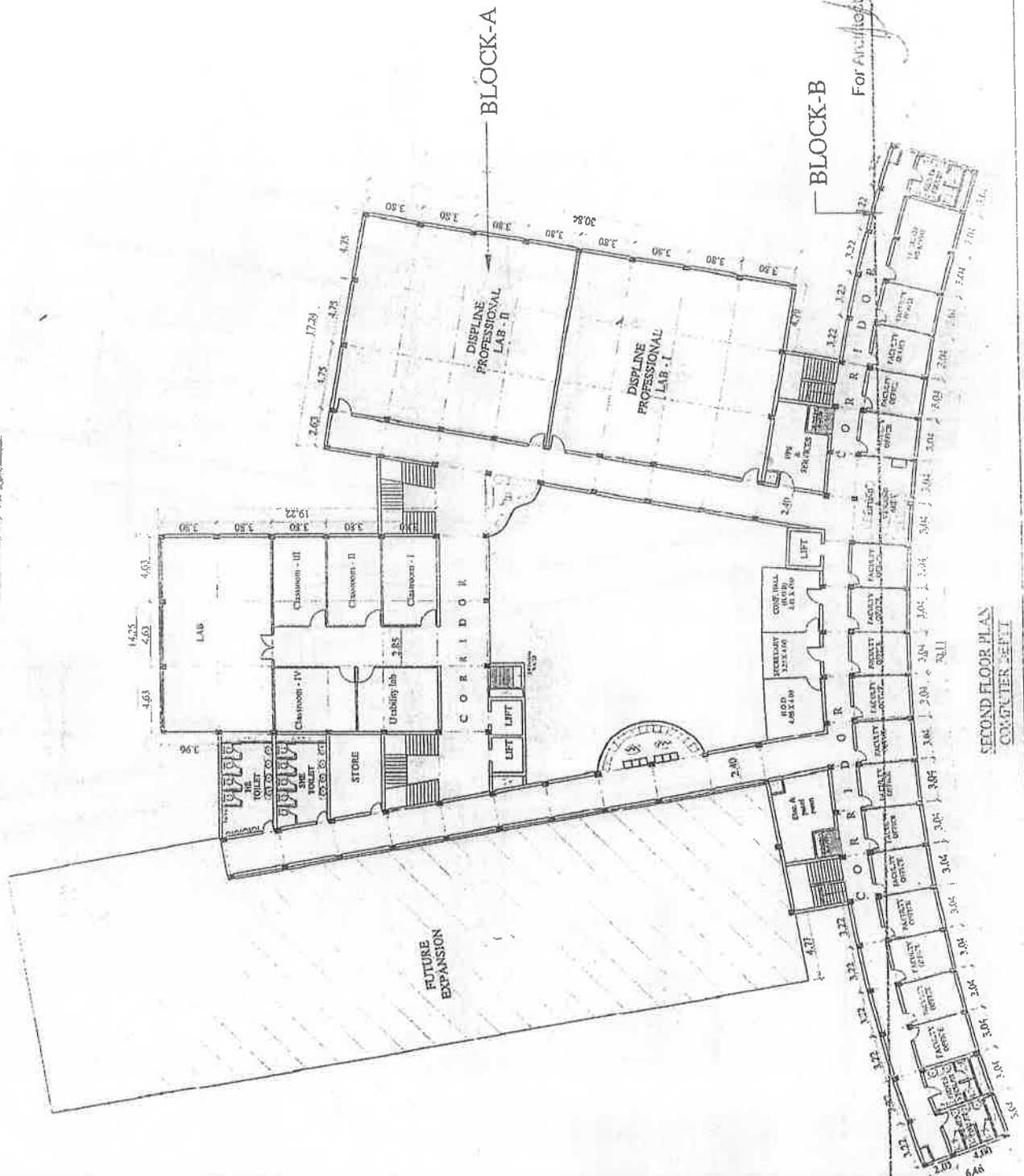
Partner
Fcr Architects Atelier

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FILE NO: 1111111111
NO: 001
BLOCK: 001
DESIGN STUDIO
Fcr ARCHITECTS ATELIER
Pvt. Ltd.
FIFTH FLOOR PLAN
OPTION: A

Scale	1:75
Date	MAY 2012
Architects atelier	architects atelier pvt. ltd.
Architects atelier pvt. ltd.	architects atelier pvt. ltd.

Project: A-05
Block: 001
Scale: 1:75
Date: MAY 2012
Architects atelier pvt. ltd.
Architects atelier pvt. ltd.
Architects atelier pvt. ltd.



SECOND FLOOR PLAN
COMPUTER CENTER

NOTE

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architects and architects and/or p. ltd.
architects and architects and/or p. ltd.

DATE	17/11/2017
BY	ARCHITECT
DATE	17/11/2017
BY	ARCHITECT
DATE	17/11/2017
BY	ARCHITECT
DATE	17/11/2017
BY	ARCHITECT
DATE	17/11/2017
BY	ARCHITECT

UNIT JABALPUR
DESIGN STUDIO
SECOND FLOOR PLAN
OPTION-II

Scale: 1/20
Block: 1/20
Architects and Architects and/or p. ltd.
Architects and Architects and/or p. ltd.
Architects and Architects and/or p. ltd.
Architects and Architects and/or p. ltd.

For Architect's Atelier
Partner

