

PART-D

Soil Report

(Uploaded Separately)

Link:-

<https://drive.google.com/drive/folders/1cd5AODqLVCpzMCcFgtYHZnSnQ7BjSfpo?usp=sharing>

LIST OF DRAWINGS			
1.Architecture drawings			
S.no.	Sheet name	Sheet no.	Job No.
A	Site Plan	1	IITK-FBA/SP/01
B.1 Architectural Floor plan			
1	Ground floor plan	2	IITK-FBA/FP/01
2	First floor plan	3	IITK-FBA/FP/02
3	Second floor plan	4	IITK-FBA/FP/03
4	Third floor plan	5	IITK-FBA/FP/04
5	Fourth floor plan	6	IITK-FBA/FP/05
6	Fifth floor plan	7	IITK-FBA/FP/06
7	Terrace plan	8	IITK-FBA/FP/07
8	Mumty plan	9	IITK-FBA/FP/08
B.2 Elevation and Sections			
1	Elevation-1	10	IITK-FBA/E/01
2	Elevation-2	11	IITK-FBA/E/02
3	Elevation-3	12	IITK-FBA/E/03
4	Elevation-4	13	IITK-FBA/E/04
5	Section-1	14	IITK-FBA/SE/01
6	Section-2	15	IITK-FBA/SE/02
Details			
S.no.	Sheet name	Sheet no.	Job No.
C Reflected Ceiling Plan			
1	Ground floor plan	C1	IITK-FBA/RCP/01
2	First floor plan	C2	IITK-FBA/RCP/02
3	Second floor plan	C3	IITK-FBA/RCP/03
4	Third floor plan	C4	IITK-FBA/RCP/04
5	Fourth floor plan	C5	IITK-FBA/RCP/05
6	Fifth floor plan	C6	IITK-FBA/RCP/06
S.no.	Sheet name	Sheet no.	Job No.
D Toilet Detail			
D.1 Dept. Common Toilet			
1	Typical Floor Toilet	T1	IITK-FBA/TL/01
2	Fifth Floor Toilet	T2	IITK-FBA/TL/02
D.2 Core Toilet			
1	Core Toilet-LHS	T3	IITK-FBA/TL/03

	2 Core Toilet-RHS	T4	IITK-FBA/TL/04
S.no.	Sheet name	Sheet no.	Job No.
E Flooring plan			
1	Ground floor plan	F1	IITK-FBA/FL/01
2	First floor plan	F2	IITK-FBA/FL/02
3	Second floor plan	F3	IITK-FBA/FL/03
4	Third floor plan	F4	IITK-FBA/FL/04
5	Fourth floor plan	F5	IITK-FBA/FL/05
6	Fifth floor plan	F6	IITK-FBA/FL/06
F Staircase Detail			
F.1 Staircase Detail			
1	Internal Staircase Detail	SD1	IITK-FBA/SD/01
2	External Staircase Detail (S1)	SD2	IITK-FBA/SD/02
3	External Staircase Detail (S2)	SD3	IITK-FBA/SD/03
4	Railing Detail	RD1	IITK-FBA/RD/01
G Door/Window/Door-Window Detail			
1	Door, Window & Ventilator Detail	D1	IITK-FBA/DW/01
2	Door-Window Detail	D2	IITK-FBA/DW/02
3	Structural Glazing Detail-1	D3	IITK-FBA/SG/01
4	Structural Glazing Detail-2	D4	IITK-FBA/SG/02
5	Door-Window Detail, UPVC Sections 1	D5	IITK-FBA/DW/03
6	Door-Window Detail, UPVC Sections 2	D6	IITK-FBA/DW/04
H Lintel Detail			
1	Lintel and Other Details	LD1	IITK-FBA/LIN/01
I Miscellaneous Detail			
1	Terracotta Cladding details	M1	IITK-FBA/MISC/01
2	External Wall Section	M2	IITK-FBA/MISC/02
3	Brickwork Detail- Southern Elevation	M3	IITK-FBA/MISC/03
4	Brickwork Detail- Stilt Area	M4	IITK-FBA/MISC/04
2.Structural drawings			
S.no.	Sheet name	Sheet no.	Job No.
A Plan			
1	Column Layout Plan	01 of 13	FBA/FP/ST-01
2	Raft Foundation Top Plan	02 of 13	FBA/FP/ST-02
3	Raft Foundation Bottom Plan	03 of 13	FBA/FP/ST-03
4	Raft Foundation Section Plan	04 of 13	FBA/FP/ST-04

5	Column Reinforcement Detail	05 of 13	FBA/FP/ST-05
6	Plinth Level Framing Plan	06 of 13	FBA/FP/ST-06
7	First Floor Level Framing Plan	07 of 13	FBA/FP/ST-07
8	Second Floor Level Framing Plan	08 of 13	FBA/FP/ST-08
9	Third Floor Level Framing Plan	09 of 13	FBA/FP/ST-09
10	Fourth Floor Level Framing Plan	10 of 13	FBA/FP/ST-10
11	Fifth Floor Level Framing Plan	11 of 13	FBA/FP/ST-11
12	Terrace Level Framing Plan	12 of 13	FBA/FP/ST-12
13	Machine Room Plan and Section Details	13 of 13	FBA/FP/ST-13
S.no.	Sheet name	Sheet no.	Job No.
	B Beam Detail Plan		
1	Ground floor plan		
A.	Plinth Level Beam Details	01 of 03	FBA/BD/ST-06/A
B.	Plinth Level Beam Details	02 of 03	FBA/BD/ST-06/B
C.	Plinth Level Beam Details	03 of 03	FBA/BD/ST-06/C
	2 First Floor Level		
A.	First Floor Level Beam Details	01 of 02	FBA/BD/ST-07/A
B.	First Floor Level Beam Details	02 of 02	FBA/BD/ST-07/B
	3 Second Floor Level		
A.	Second Floor Level Beam Details	01 of 02	FBA/BD/ST-08/A
B.	Second Floor Level Beam Details	02 of 02	FBA/BD/ST-08/B
	4 Third Floor Level		
A.	Third Floor Level Beam Details	01 of 02	FBA/BD/ST-09/A
B.	Third Floor Level Beam Details	02 of 02	FBA/BD/ST-09/B
	5 Fourth floor Level		
A.	Fourth Floor Level Beam Details	01 of 02	FBA/BD/ST-10/A
B.	Fourth Floor Level Beam Details	02 of 02	FBA/BD/ST-10/B
	6 Fifth floor Level		
A.	Fifth Floor Level Beam Details	01 of 02	FBA/BD/ST-11/A
B.	Fifth Floor Level Beam Details	02 of 02	FBA/BD/ST-11/B
	7 Terrace Beam Level		
A	Terrace Beam Details	01 of 02	FBA/BD/ST-12
B	Terrace Beam Details	02 of 02	FBA/BD/ST-12
	8 Mumty room and Tank Beam Details	01 of 01	FBA/BD/ST-13

Miscellaneous			
S.no.	Sheet name	Sheet no.	Job No.
1	1 st floor Slab and Section Detail	01 of 01	FBA/SD/ST-14
2	2 nd floor Slab and Section Detail	01 of 01	FBA/SC/ST-15
3	3 rd floor Slab and Section Detail	01 of 01	FBA/SC/ST-16
4	4 th floor Slab and Section Detail	01 of 01	FBA/SC/ST-17
5	5 th floor Slab and Section Detail	01 of 01	FBA/SC/ST-18
6	Terrace floor Slab and Section Detail	01 of 01	FBA/SC/ST-19
7	Staircase Details	01 of 01	FBA/SC/ST-20
8	Tank Details	01 of 01	FBA/SC/ST-21
3. PLUMBING & FIREFIGHTING DRAWINGS			
3A.PLUMBING DRAWINGS			
1	Ground floor	PL-BA-IITK-01	
2	First floor	PL-BA-IITK-02	
3	Second floor	PL-BA-IITK-03	
4	Third floor	PL-BA-IITK-04	
5	Fourth floor	PL-BA-IITK-05	
6	Fifth floor	PL-BA-IITK-06	
7	Terrace floor	PL-BA-IITK-07	
8	Schematic diagram	PL-BA-IITK-08	
9	Ground floor toilet detail (part plan)	PL-BA-IITK-100	
10	Ground floor toilet detail (part plan)	PL-BA-IITK-101	
11	Typical floor toilet detail (part plan)	PL-BA-IITK-102	
12	Typical floor toilet detail (part plan)	PL-BA-IITK-103	
13	Standard detail	PL-BA-STD-101	
14	Standard detail	PL-BA-STD-102	
3B.FIRE FIGHTING DRAWINGS			
1	Ground floor	FF-BA-IITK-01	
2	First floor	FF-BA-IITK-02	
3	Second floor	FF-BA-IITK-03	
4	Third floor	FF-BA-IITK-04	
5	Fourth floor	FF-BA-IITK-05	
6	Fifth floor	FF-BA-IITK-06	
7	Terrace plan	FF-BA-IITK-07	
8	Fire schematic diagram	FF-BA-IITK-08	
4. ELECTRICAL DRAWINGS			
S.no.	Sheet name	Job No.	

A POWER LAYOUT (EL-POWER,UPS LOOPING & CKT LAYOUT)		
1	Ground floor	I.I.T. KANPUR/ECMS/EL/P/01
2	First floor	I.I.T. KANPUR/ECMS/EL/P/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/P/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/P/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/P/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/P/06
7	Terrace floor	I.I.T. KANPUR/ECMS/EL/P/07
B POWER RACEWAY LAYOUT (EL- POWER RACEWAY LAYOUT)		
1	Ground floor	I.I.T. KANPUR/ECMS/EL/P&R/01
2	First floor	I.I.T. KANPUR/ECMS/EL/P&R/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/P&R/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/P&R/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/P&R/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/P&R/06
C DATA RACEWAY LAYOUT (EL- DATA RACEWAY LAYOUT)		
1	Ground floor	I.I.T. KANPUR/ECMS/EL/D&R/01
2	First floor	I.I.T. KANPUR/ECMS/EL/D&R/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/D&R/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/D&R/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/D&R/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/D&R/06
D CABLE TRAY LAYOUT (EL- CABLE TRAY LAYOUT)		
1	Ground floor	I.I.T. KANPUR/ECMS/EL/CT/01
2	First floor	I.I.T. KANPUR/ECMS/EL/CT/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/CT/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/CT/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/CT/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/CT/06
7	Terrace floor	I.I.T. KANPUR/ECMS/EL/CT/07
E DB DETAIL LAYOUT		
1	Ground floor	I.I.T. KANPUR/ECMS/EL/DB/01
2	First floor	I.I.T. KANPUR/ECMS/EL/DB/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/DB/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/DB/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/DB/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/DB/06
7	Terrace floor	I.I.T. KANPUR/ECMS/EL/DB/07

F	LIGHTING LAYOUT (EL- LIGHTING LOOPING & CIRCUITING LAYOUT)	
1	Ground floor	I.I.T. KANPUR/ECMS/EL/L/01
2	First floor	I.I.T. KANPUR/ECMS/EL/L/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/L/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/L/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/L/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/L/06
7	Terrace floor	I.I.T. KANPUR/ECMS/EL/L/07
G	FIRE ALARM LAYOUT (EL- FIRE ALARM & TBS LAYOUT)	
1	Ground floor	I.I.T. KANPUR/ECMS/EL/FAS/01
2	First floor	I.I.T. KANPUR/ECMS/EL/FAS/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/FAS/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/FAS/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/FAS/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/FAS/06
7	Terrace floor	I.I.T. KANPUR/ECMS/EL/FAS/07
H	PA LAYOUT (EL- PA LAYOUT)	
1	Ground floor	I.I.T. KANPUR/ECMS/EL/PA/01
2	First floor	I.I.T. KANPUR/ECMS/EL/PA/02
3	Second floor	I.I.T. KANPUR/ECMS/EL/PA/03
4	Third floor	I.I.T. KANPUR/ECMS/EL/PA/04
5	Fourth floor	I.I.T. KANPUR/ECMS/EL/PA/05
6	Fifth floor	I.I.T. KANPUR/ECMS/EL/PA/06
7	Terrace floor	I.I.T. KANPUR/ECMS/EL/PA/07
	Fire alarm schematic diagram	I.I.T.KANPUR/ECMS/EL/TBS/SLD/01
J	Talk back system schematic diagram	I.I.T.KANPUR/ECMS/EL/TBS/SLD/02
K	EI-Earthing SLD layout (part-1)	I.I.T.KANPUR/ECMS/EL/EARTH/SLD/01
L	EI-Earthing SLD layout (part-2)	I.I.T.KANPUR/ECMS/EL/EARTH/SLD/02
M	Elect. EI-lightning Arrestor Layout	
	Terrace floor	I.I.T. KANPUR/ECMS/EL/L.A/01
N	Electrical power SLD layout	
	For all floors	I.I.T. KANPUR/ECMS/EL/P/SLD/01

5. HVAC DRAWINGS		
S.no.	Sheet name	Job No.
1	Ground floor	AC/01
2	First floor	AC/02
3	Second floor	AC/03
4	Third floor	AC/04
5	Fourth floor	AC/05
6	Fifth floor	AC/06
7	Terrace	AC/07
8	Schematic diagram	AC/08
9	Riser diagram	AC/09
6. Soil Investigation Report		
1.	Soil Investigation Report	

SCHEDULE OF STAGE PAYMENT (IN PERCENTAGE OF TOTAL COST)

S. No.	Activities	Percentage of total building cost	
		Break-up	Total Activity
1	Upon completion all works upto plinth level (all earth work, PCC work, sand filling, Anti-termite treatment, RCC work, DPC, brick work, etc.)		11.88
<i>a</i>	<i>Earth work</i>	<i>0.79</i>	
<i>b</i>	<i>PCC work</i>	<i>0.57</i>	
<i>c</i>	<i>RCC work (raft foundation)</i>	<i>6.92</i>	
<i>d</i>	<i>RCC work (column, plinth beams,)</i>	<i>1.30</i>	
<i>e</i>	<i>RCC work (Grade slab)</i>	<i>1.56</i>	
<i>f</i>	<i>Sand filling, Anti-termite treatment, DPC, brick work, etc.</i>	<i>0.74</i>	
	Total	11.88	
2	Upon completion of all RCC structural works for the building above plinth level, including mumty, overhead water tanks, RCC parapets, etc.		19.89
<i>a</i>	<i>Upon completion of Level-1</i>	<i>4.20</i>	
<i>b</i>	<i>Upon completion of Level-2</i>	<i>3.55</i>	
<i>c</i>	<i>Upon completion of Level-3</i>	<i>3.55</i>	
<i>d</i>	<i>Upon completion of Level-4</i>	<i>3.40</i>	

e	Upon completion of Level-5	2.90	
f	Upon completion of Level-6, including mumty & water tanks	2.29	
	Total	19.89	
3	Upon completion of all brick work above plinth level		9.50
a	Upon completion of Level-1	1.85	
b	Upon completion of Level-2	1.65	
c	Upon completion of Level-3	1.65	
d	Upon completion of Level-4	1.60	
e	Upon completion of Level-5	1.50	
f	Upon completion of Level-6, including munties & water tanks	1.25	
	Total	9.50	
4	Upon completion of all SS staircase railing (internal and external) and steel works (gratings, MS ladders, etc.)		1.588
5	Upon completion of all water proofing works at roofs, sunken areas, balconies, terraces with screed on top.		1.46
6	Upon completion of all flooring works including skirting/ dado, copings, OH water tank tile works, etc.		9.29
a	Upon completion of Level-1	1.98	
b	Upon completion of Level-2	1.65	
c	Upon completion of Level-3	1.65	
d	Upon completion of Level-4	1.60	
e	Upon completion of Level-5	1.35	
f	Upon completion of Level-6, including munties & water tanks	1.06	
	Total	9.29	

S. No.	Activities	Percentage of total building cost	
		Break-up	Total Activity
7	Upon completion of all plastering works (internal & external)		1.69
8	Upon completion of false ceiling (Techzone ceiling, calcium silicate, acoustic grid ceiling, Metal Ceiling, wooden Linear ceiling, Wooden grid ceiling, Gypsum Ceiling etc.)		3.72
9	Upon completion of all internal painting works		1.06
10	Upon completion of external Acro textured paint on exterior		5.00
11	Upon installation of Terra-cotta louveres, Terra-cotta tiles & Jaali bricks and upon completion of external Acro textured paint		1.72
12	Upon completion of Aluminium frame with flush doors & Aluminium louvered doors UPVC door & windows and structural and spider Glazing works		5.802

13	Upon completion of internal water supply pipes & fittings, soil and waste pipes & fittings upto 1st manhole, rainwater pipes & fittings upto 1st manhole		0.95
14	Upon installation of complete sanitary fittings and fixtures including RO system		1.01
15	Upon completion of external sewage, storm water drainage & rain water harvesting		0.59
16	Upon installation and commissioning of fire-fighting works (pumps, piping, equipment's& fittings, etc.)		1.79
17	Upon completion of electrical Point wiring, DB's with MCCB's & RCCB's etc., cable tray & raceway, etc., Earthing, Electrical Panels,LT cables, Pipe & lightning protection, Solar System		11.82
a	Supplying and laying of power outlets, conduit for Electrical work, IT networking, Fire & PA system ,boxes, Face plate and point wiring of Light fixtures and Electrical Power Outlets etc.	4.69	
b	Supply and fixing of DBs & MCBs along with accessories	0.24	
c	Supply & Installation of Light fixtures, Bollard Lighting, Post Top Lights, Aviation Light, Exit Signage, Street Lighting Poles and Fans	1.97	
d	Supply and Installation of Lightning Conductor	0.03	
e	Supply and Installation of Cable Tray and Raceway	1.67	
f	Supply and Installation, Testing and commissioning of Main Distribution Board, Feeder Pillars & Sub distribution Board	1.08	
S. No.	Activities	Percentage of total building cost	
		Break-up	Total Activity
g	Supply, Laying, Testing and commissioning and Installation of LT Cables, Earthing Pits, Earthing Strip, Pipe, terminations, Safety Equipments along with other related works	0.52	
h	Supply, Installation, Testing and Commissioning of Solar System	0.26	
i	Supplying, installation, testing & commissioning of complete Addressable Fire alarm System & Talk Back System along with other related accessories	1.36	
	Total	11.82	
18	Upon supply, installation and commissioning of HVAC works		6.48
a	<i>Upon installation of complete AHU, TFA, Axial fans, Inline Fans & amp; others associated accessories</i>	1.16	
b	<i>Upon installation testing & amp; commissioning of chilled water pipeline, valves, strainers, gauges and pipe insulation etc.</i>	1.22	
c	<i>Upon installation of ducts, grills, diffusers, VAV, VCD's & amp; fire dampers etc.</i>	2.61	
d	<i>Upon providing & amp; fixing of insulation & amp; acoustic lining work etc.</i>	0.29	
e	<i>Upon installation testing & amp; commissioning of complete electrical work.</i>	0.33	

f	Upon testing & commissioning of entire BMS system	0.87	
	Total	6.48	
19	Upon supply, installation, testing & commissioning of VAV units		0.87
20	Upon completion of path, plinth protection, etc., works		0.37
21	Upon completion of road/ external flooring works with stamped concrete and brick pavers		1.86
22	Upon completion of Lift work including commissioning		1.66
a	Supply of lift	0.9	
b	Installation	0.1	
c	Testing & Commissioning	0.66	
	Total	1.66	
	TOTAL		100.00

Drawings

(Uploaded Separately)

Link:-

<https://drive.google.com/drive/folders/1cd5AODqLVCpzMCcFgtYHZnSnQ7BjSfpo?usp=sharing>

BOQ [Compatibility Mode] - Microsoft Excel (Product Activation Failed)

File Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Styles

Contract No: 40/Civil/Div-2/2019-20/01

Percentage BoQ

Validate Print Help

Tender Inviting Authority: Superintending Engineer, IWD, IIT, Kanpur

Name of Work: Construction of Faculty Building Annexe (G+5) including Internal water supply, Sanitary installation, Internal electrical installations, Fire Fighting, Fire Alarm system, Lifts, HVAC (Low side) & BMS, development works and all other related works to make the building functional on Engineering, Procurement and Construction (EPC) contract basis at IIT Kanpur.

Contract No: 40/Civil/Div-2/2019-20/01

Name of the Bidder/ Bidding

PRICE SCHEDULE
 (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER	TEXT #	NUMBER	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Cost in Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	7	8
1	CARRIAGE OF MATERIALS					

Ready | 100% | 10:44 AM 2/4/2020