NOTE–: REQUIREMENTS AS PER GREEN BUILDING NORMS

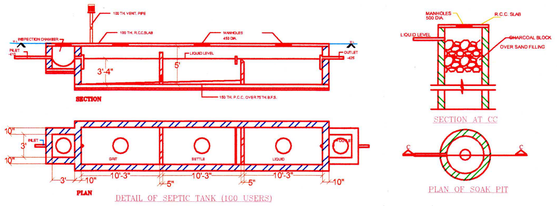
1.R.W.H.Provided @6cum /100 sqm of roof area satisfying the zero discharge criteria.
2.Solar energy @20W/Sqft or 5% of the connected load will be provided at the roof top area
3.Installation of solar assisted water heating systems
4.Sagregation of waste (Dry & wet dustbin provided in plan which is collected by RMC)
5.Waste water recycling and reuse process will be provided from R.W.H
6.Reduction of hardscape by providing paver blocks in path.
7.Energy efficiency in HYAC is provided.
8.Lighting of common areas by solar energy or LED devices are provided.
9.Organic waste management.
10.Low water consumption and plumbing fixtures.

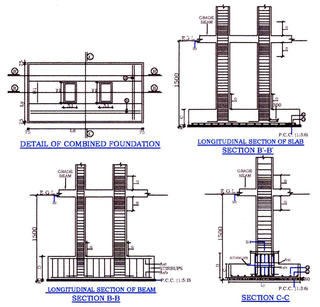
WATER SUPPLY REQUIREMENT DETAILS:-

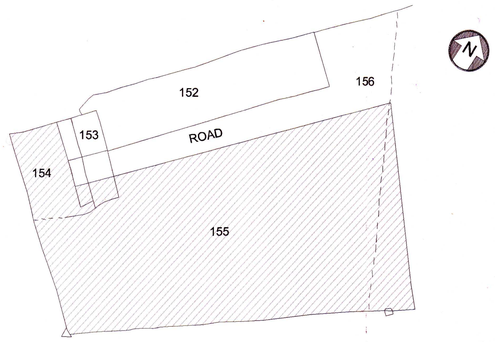
FOR SCHOOL:-
APPROXIMATE TOTAL NO OF STUDENT =960 NOS
PER CAPITA DEMAND OF WATER=45 LTR/DAY
WATER REQUIRED FOR 960 NOS OF STUDENT =960 X45 =43.20 KLD
FOR LIVING UNIT:-
APPROXIMATE NO OF PERSON/FLAT =4 NOS
APPROXIMATE TOTAL NO OF PERSON=4X16 FLATS =64 NOS
PER CAPITA DEMAND OF WATER=135 LTR/DAY
WATER REQUIRED FOR 64 NOS OF PERSON =64 X135 =8.64 KLD
TOTAL =43.20 KLD+8.64 KLD =51.84 KLD
PROVIDED 55 KLD STP
WASTE WATER RECYCLE & REUSE 30 % OF 55 KLD =16.50 KLD
PROVIDED WASTE WATER RECYCLE & REUSE=17 KLD

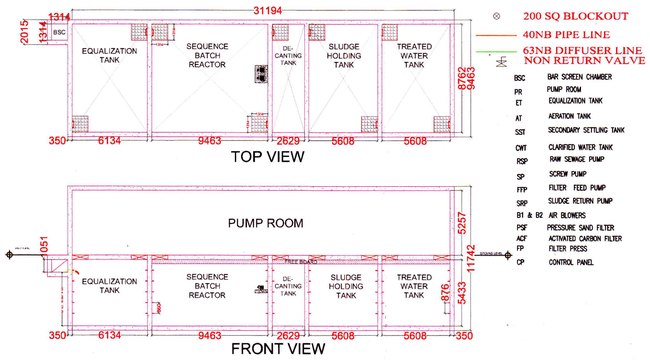
COLUMN REINFORCEMENT SCHEDULE

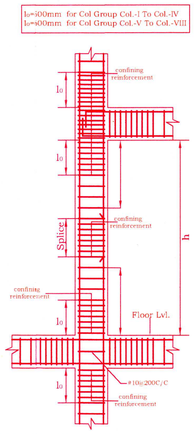
Col. Group.	COLUMN MKD.	COLUMN SIZE (X x Y)	REINFORCEMENT LONGITUDINAL	REINFORCEMENT TIES (I/C=confining reinforcement)	REINFORCEMENT h=25	SECTIONS	SHAPE OF STIRRUPS.
Col.-III (47 Nos.)	G1,L1,P1,S1,V1,a1,e1,g1,k1,F2,B6,n7, A10,B11,m11,B12,n12,A13,n13,A16, A20,A21,B32,B34,A35,A46,A50,A53, n53,B54,m54,B55,m55,A56,n58,B60, m60,F64,G65,L65,P65,S65,V65,a65, e65,g65,k65,.	600 x 450	12 #20	#10@100C/C	#10@200C/C	450 600 150 150	
Col.-V (32 Nos.)	M2,T2,d2,M6,R6,U6,M11,U11,R11, K19,B19,K23,A24,K26,K28,K33,K38, K40,A42,K43,W47,K48,R53,M55,U55, H60,R60,U60,M60,M64,T64,d64.	600 x 400	12 #20	#10@100C/C	#10@200C/C	400 600	

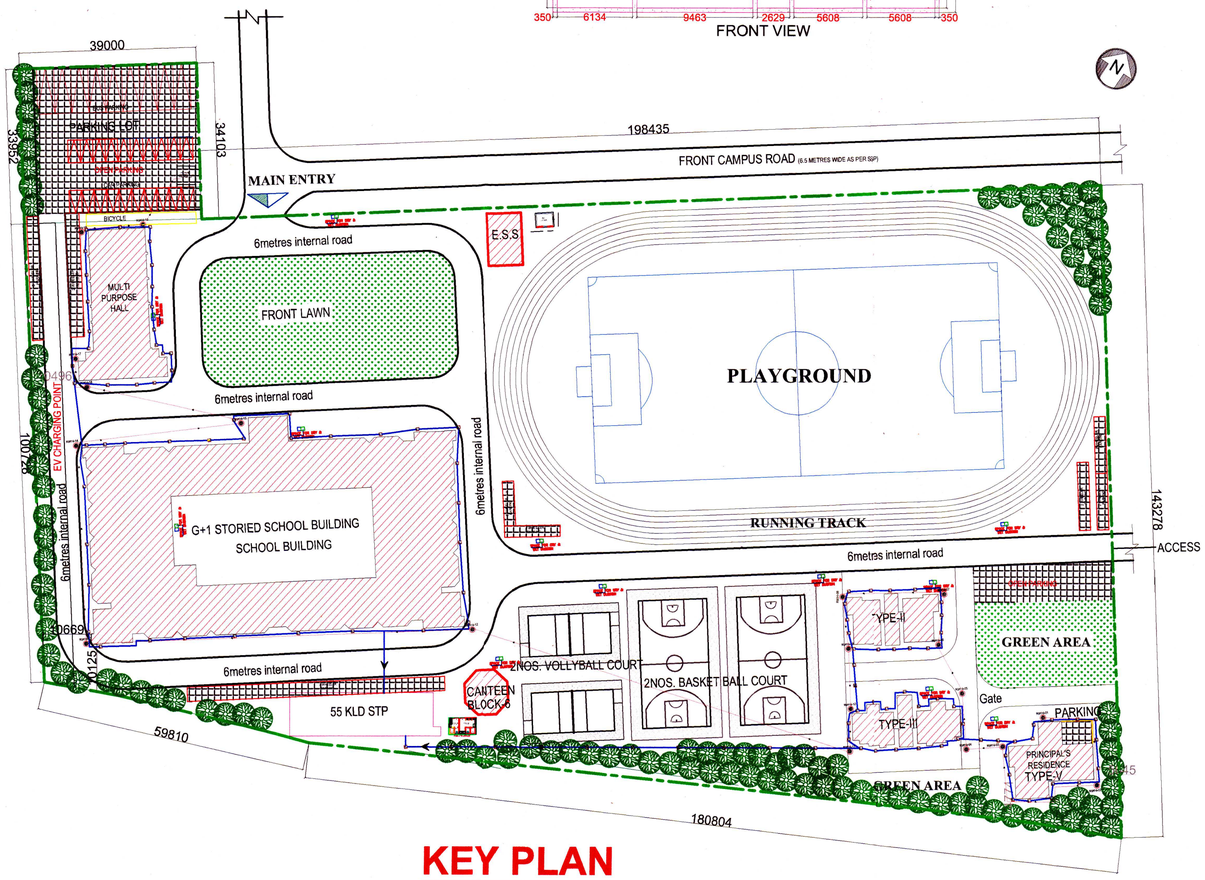






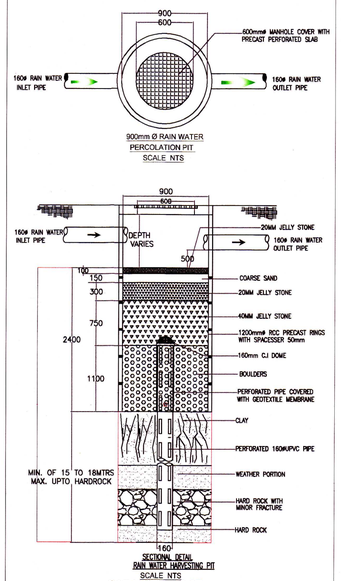






KEY PLAN

RAINWATER COLLECTION PIT



CAPACITY -12.97 cum

AREA STATEMENT :-

AREA AND BUILDING PARAMETERS

PLOT AREA AS PER ROR -7.50 Ac. (326699.90 Sft. - 30351.42 SQM.)

ACTUAL PLOT AREA	30351.42 SQM (7.50 Ac.)

SCHOOL BUILDING
SCHOOL

FLOOR	BUILT UP AREA	FLOOR AREA
GROUND FLOOR AREA	2671.16 SQM	2671.16 SQM
FIRST FLOOR AREA	2451.14 SQM	2451.14 SQM
TOTAL FLOOR AREA	5122.30 SQM	5122.30 SQM

TYPE-II **RESIDENTIAL**
STAFF QUARTER

FLOOR	BUILT UP AREA	FLOOR AREA	DWELLING UNIT
STILT FLOOR AREA	166.78 SQM	26.72 SQM	8 NOS.
1ST,2ND,3RD & 4TH FLOOR AREA	161.71 SQM	161.71 SQM	
TOTAL FLOOR AREA	813.62 SQM	673.56 SQM	

TYPE-III **RESIDENTIAL**
STAFF QUARTER

FLOOR	BUILT UP AREA	FLOOR AREA	
STILT FLOOR AREA	185.41 SQM	26.60 SQM	8 NOS.
1ST,2ND,3RD & 4TH FLOOR AREA	180.34 SQM	180.34 SQM	
TOTAL FLOOR AREA	906.77 SQM	747.96 SQM	

PUBLIC-SEMI
MULTIPURPOSE HALL

FLOOR	BUILT UP AREA	FLOOR AREA	
GROUND FLOOR AREA	446.06 SQM	446.06 SQM	
TOTAL FLOOR AREA	446.06 SQM	446.06 SQM	

TYPE-V **RESIDENTIAL**
RESIDENTIAL

FLOOR	BUILT UP AREA	FLOOR AREA	
GROUND FLOOR AREA	195.65 SQM	195.65 SQM	1 NO.
TOTAL FLOOR AREA	195.65 SQM	195.65 SQM	

BLOCK-6 CANTEEN

GROUND FLOOR AREA	32.07 SQM	32.07 SQM	
TOTAL AREA	7516.47 SQM	7217.60 SQM	

BUILDING PARAMETERS :-

	Reference:	Required	Provided
01.	Base FAR Max.Permissible FAR	2.00 6.00	0.237
02.	Setbacks:		
	Front	3.00 M	4.77 M
	Rear		35.75 M
	Left		10.49 M
	Right		5.64 M
03.	Height		
	G+1 SCHOOL	15 M	7.80 M
	TYPE-II ,S+4 STAFF QUARTER		12.60 M
	TYPE-III ,S+4 STAFF QUARTER		12.60 M
	MULTIPURPOSE HALL		10.20 M
	TYPE-V , PRINCIPAL'S RESIDENCE		3.15 M
04.	Ground coverage	———	12.18%
05.	Rooftop Solar PV system in W (Residential & educational)	Solar energy @20W/Sqft. of roof area-1866 W	1866 W
06.	Rain Water Harvesting	208013 L	246430 L 19 NOS. @ 12.97 cum/ 1 unit
07.	Parking	2254.94 SQM (30 % of builtup Area) 338.24 SQM (15 % of total parking space) 45.10 SQM (2 % of total parking space)	2332.97 SQM 482.60 SQM 64.48 SQM
08.	Plantation	380 Trees	385 Trees
09.	Solar Water heating system (Residential -Staff Quarter & Principle's Resident)	100 LPD/Flat 100 LPDX17 = 1700 LPD	1700 LPD
10.	Waste water recycling& reuse	16.50 KLD	17 KLD
11.	Dry Dustbin & Wet Dustbin	———	12 nos.+12 nos.
12.	ICT Provision near main entrance gate	12 SQMT	12.64 SQMT

SANCTION TEXT
Permission Granted Subject to
Conditions Contained in letter
No. 9315 Dt. 31-07-2024
Valid till Dt. 30-07-2027

APPROVING AUTHORITY DIGITAL SIGNATURE
Assistant Town Planner
Rourkela Municipal Corporation
City Planner
Rourkela Municipal Corporation

DOOR & WINDOW SCHEDULE

SL. NO.	TYPE	SIZE	DESCRIPTION
1	D	2.00 X 2.13	PANELLED DOOR
2	D1	1.20 X 2.13	PANELLED DOOR
3	D2	1.00 X 2.13	PANELLED DOOR
4	D3	0.90 X 2.13	PANELLED DOOR
5	D4	0.80 X 2.13	PANELLED DOOR
6	W	1.25 X 1.80	MS. GLAZED WINDOW
7	W1	1.22 X 1.80	MS. GLAZED WINDOW
8	G	2.10 X 1.80	MS. GLAZED WINDOW
9	V	0.61 X 0.61	MS. GLAZED VENTILATOR

CLIENT -

REGISTRAR
राष्ट्रीय प्रौद्योगिकी संस्थान राउरकेला
National Institute of Technology, Rourkela

EXECUTIVE ENGINEER
CPWD, ROURKELA
Executive Engineer-Rourkela
CPWD, NIT Campus
Rourkela (Odisha) PIN-76...19

DRAWING TITLE

PROPOSED G+1 SCHOOL,2 NOS. OF S+4 STAFF QUARTER & SINGLE FLOOR PRINCIPAL'S HOUSE RESIDENTIAL BUILDING AND SINGLE FLOOR MULTIPURPOSE HALL PLAN OF KENDRA VIDYALAYA,NIT CAMPUS REPRESENTED AS REGISTRAR ROHAN DHIMAN OVER PLOT NO.-154(p),153(p), 155(p),156(p), KHATA NO.-25/24 ,MOUZA- R.T.U.-30(Ka) , P.S.- JHIRPANI , TAHASIL-ROURKELA , DIST.- SUNDARGARH ,ODISHA.

MASTER PLAN
DRAWING NO.-KV/NIT ROURKELA/SD/01

Dr. RABINDRA NATH MISHRA
Govt. Registered Civil Engineer
Regd. No.-RTP/DTP (C.ER-042/2017)

Raj Kumar Agarwal
ARCHITECT
Regd. No: CA/1794Q

ER.RABINDRA NATH MISHRA
GOVT. REGISTERED CIVIL ENGINEER
REGD. NO. -RTP/DTP (C.ER) -042/2017
SIGN OF TECH. PERSON

A D H A R S H I L A
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