

MUNICIPAL CORPORATION OF GREATER MUMBAI

No.Ch. E. / M & E / 243 of

22 MAY 2018*Mechanical ventilation*

Office of the
Executive Engineer Mech (E.I.) P.&D.
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To,
Chief Executive Officer (S.R.A.)
Slum Rehabilitation Authority,
Administrative Building,
Anant Kanekar Marg,
Bandra (East),
Mumbai 400 051

- Subject: - Amended plans for sale building no. 3 in S.R. scheme on plot bearing CTS no. 5808 (pt) corresponding F.P. no. 274 (pt) of Ghatkopar TPS-III of village Ghatkopar, Jawahar road, Ghatkopar (E), Mumbai for "Nalanda SRA CHS Ltd."
- Reference:- 1. SRA/ ENG / 537 / N / ML/ LOI dtd 30.03.2017 (page 3 to 6)
2. SRA/ ENG / 2163 / N / ML/ AP dtd 17.04.2017 (page 7 & 8)
3. Letter from M/s. Viswas Satodia dtd 11.04.2018 (page -1)

The M/s. Viswas Satodia have submitted the plans of proposed building vide letter dated 11.04.2018 requesting for remarks about ventilation system in the above building; as per condition no. 5 (i) vide letter number SRA/ ENG / 2163 / N / ML/ AP dtd 17.04.2017 (page 8).

The Plans of proposed building are approved for Sale building no. 3 having Wings A,B, C & D. The Wings A & B comprises of 2 basements + Ground floor + 1st podium floor + 2nd floor (pt) podium (pt) residential + 3rd to 15th floors upper floors; the Wings C & D comprises of 2 basements + Ground floor + 1st podium floor + 2nd floor (pt) podium (pt) residential + 3rd to 7th floors upper floors above; vide letter under no. SRA/ ENG / 2163 / N / ML/ AP dtd 17.04.2017 (page 7 & 8)

The report of HVAC consultant's M/s. Randhir Bhilare for ventilation system, along with ventilation calculations, drawings are attached at (page 39 to 55).

The Ventilation system proposed to be installed for the Basement area, toilet shaft and utility areas in the above building consists of ventilation fan set of ducting and the details of which are as given below:

Sr. no.	Area Details	Ventilation Volume (Cu. Mtr)	ACPH	Design Exhaust air quantity (CMH)	FAN UNIT DETAILS			Remarks
					Fan Type	Capacity (CMH)	Qty (No)	
BASEMENT 2								
1	Car parking	9442.16	6 / 12	56652.98/ 113305.96	Ceiling suspended axial type exhaust fans	64000	2 (1W+1 SB)	One fan will work in normal mode and both fans will work in fire mode.
2	Pump room 1	111.27	20 / 40	2225.30/ 4450.60				
3	Pump room 2 & 5	76.97	20 / 40	1539.35 / 4204.10				
4	Pump room 3 & 4	105.10	20 / 40	2102.05 / 4204.10				

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Ch. E. / M & E / 243

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5	Car parking – Fresh air	9442.16	5	47210.82	Ceiling suspended axial type fresh air fan	48000	1	With suitable fan
6	STP	584.52	20 / 40	11690.32 / 23380.64	Ceiling suspended axial type exhaust fan	11800	2 (1W+1 SB)	One fan will work in normal mode and both fans will work in fire mode.
7	STP – Fresh air	584.52	8	4676.13	Ceiling suspended axial type fresh air fan	4800	1	With suitable fan.
BASEMENT 1								
8	Car Parking	10423.17	6 / 12	62539.01 / 125078.01	Ceiling suspended axial type exhaust fan	63000	2 (1W+1 SB)	One fan will work in normal mode and both fans will work in fire mode.
GROUND FLOOR								
9	Sub station	209.06	15	3135.89	Propeller type Wall mounted exhaust fan	3200	1	With suitable motor.
10	Meter room wing A & B	109.33	15	1639.95	Propeller type Wall mounted exhaust fan	1700	1	With suitable motor.
11	Panel room wing A & B	74.46	15	1116.96	Propeller type Wall mounted exhaust fan	1200	1	With suitable motor.
12	Meter room wing C & D	125.26	15	1878.83	Propeller type Wall mounted exhaust fan	2000	1	With suitable motor.
13	Panel room wing C & D	66.50	15	997.43	Propeller type Wall mounted exhaust fan	1000	1	With suitable motor.
TOILET SHAFTS								
14	Internal Toilet shaft 01	360.40	15	5406.03	Centrifugal cabinet type Floor mounted exhaust fan	5500	1	With suitable motor.
15	Internal Toilet shaft 02	297.69	15	4465.31	Centrifugal cabinet type Floor mounted exhaust fan	4500	1	With suitable motor.
16	Internal Toilet shaft 03	352.88	15	5293.15	Centrifugal cabinet type Floor mounted exhaust fan	5300	1	With suitable motor.
17	Internal Toilet shaft 04	351.62	15	5274.33	Centrifugal cabinet type Floor mounted exhaust fan	5300	1	With suitable motor.
18	Internal Toilet shaft 05	157.37	15	2360.55	Centrifugal cabinet type Floor mounted exhaust fan	2400	1	With suitable motor.
19	Internal Toilet shaft 06	157.74	15	2366.15	Centrifugal cabinet type Floor mounted exhaust fan	2400	1	With suitable motor.

20	Internal Toilet shaft 07	161.48	15	2422.22	Centrifugal cabinet type Floor mounted exhaust fan	2500	1	With suitable motor.
21	Internal Toilet shaft 08	134.57	15	2018.52	Centrifugal cabinet type Floor mounted exhaust fan	2100	1	With suitable motor.

In view of above and scrutiny of proposal from technical point of view as far as this department is concerned, the ventilation system proposed as above seems to be in order for the proposed building subject to compliance of the following:

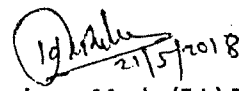
- The installation of ventilation system shall be done as per the drawings.
- The ventilation system shall be installed in such a manner that, it should not give noise nuisance to the surroundings & occupants of the buildings. Suitable sound dampers shall be installed to reduce the noise.
- The exhaust fans shall be provided with anti vibratory pads support.
- For fresh air entry sufficient size louvers shall be provided in the doors of each toilet.
- The ventilation system shall be tested & balanced to have proper fresh air & exhausting of air.
- Ventilation system shall be serviced & maintained regularly.
- The system shall be provided with adequate protection and safety devices such as fire dampers etc. as per latest revision of National Building Code and Fire protection act 2008.
- The exhaust fan motors shall be fire resistant and shall have fire ratings of 2 hours.
- The lighting of the building shall be as per latest revision of N.B.C., B.I.S. and E.C.B.C.
- It is presumed that the requisite capacity exhaust fans mentioned in the HVAC consultants report are manufactured by the respective fan manufacturers.

Ch. E/M & E/ 243 dated.....

22 MAY 2018

Sd/-
Executive Engineer Mech. (E.I.) P. & D.

CC: M/s. Viswas Satodia


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