STRUCTURE AUDIT REPORT

OF

MAHAVIR SENIOR MODEL SCHOOL

SANGAM PARK EXTENSION, RANA PRATAP BAGH, OPPOSITE NANAK PIAO GURUDWARA, G. T. KARNAL ROAD, DELHI-110033

★ **REPORT PREPARED BY** ★

ER. BINDESHWAR PANDIT

MCD Structural Engineer License No. SE-26,

264, D.A.Flat, Nimri Colony, Ashok

Vihar,Phase-IV, Delhi-110052.

Certified True Copy

28/09/2022

RUCHIKA SUKHIJA
Principal
Mahavir Senior Model School
Sangam Park Ext., G.T. Karnal Road
Delhi-110033

BINDESHWAR PANDIT

B.E(Civil),FIV

MCD Licensed Engineer E-1753
MCD Structural Engineer S.E-26
Govt. Regd. Valuer U/S 34 (AB) of 1957
Regd.No.-CAT-1/628/176/2014-15
Structural Designer
Chartered Engineer
Registered Valuer-IBBI

Address:
264,D.A Flat, Nimri Colony
Ph.-IV, Ashok Vihar
Delhi-110052
Mobile No.-9810988628, 9821368002
E-mail ID :-bpandit2013@gmail.com

Ref.No.83/SAR/SIS/2020

Date:- 08.10.2020

STRUCTURE AUDIT REPORT

Address of Property : Sangam Park Extension, Rana Pratap Bagh, Opposite Nanak Piao Gurudwara, G. T. Karnal Road, Delhi-110033

Name of Owner : Mahavira Foundation (Regd.)

ER. BINDESHWAR PANDIT
MCD Structural Engineer License No. SE-26,
264, D.A.Flat, Nimri Colony, Ashok Vihar,Phase-IV, Delhi-110052.

Certified True Copy

28/04/2021

RUCHIKA SUKHIJA
Principal
Mahavir Senior Model School
Sangam Park Ext., G.T. Karnal Road
Delhi-110033

In India, buildings are usually constructed due to high cost and scarcity of land. In order to utilize maximum land area, owner generally propose asymmetrical plan configurations. These asymmetrical plan buildings, which are constructed in seismic prone areas, are likely to be damaged during earthquake. Earthquake is a natural phenomenon which can generate the most destructive forces on structures. Buildings should be made safe for lives by proper design and detailing of structural members in order to have a ductile form of failure. The Delhi laid down in Earthquake Zone-IV and Zone Factor is 0.24.

The concept of earthquake resistant building should be designed to resist the forces, which forces. Normally one or two storey building has less seismic effect with minor damages other than multi-storey building. This existing building report comprises of seismic analysis and design two storey R.C. building with asymmetrical plan. The building is modeled as a 3D space frame using the software STAAD PRO V8i. The response spectra as per IS 1993 (Part 1):2002 for medium soil. The maximum deflection is 34mm.

CONCLUSION

Keeping in view, all the existing structural analysis in software and various test conducted at site and result obtained from the laboratory the building is safe and sound and there is no need of retrofitting in the building due to newly constructed.

The existing two and three story building is seismic resistant on normal earthquake.

ER. BINDESHWAR PANDIT
MCD Structural Engineer License No. SE-26,
264, D.A.Flat, Nimri Colony, Ashok
Vihar,Phase-IV, Delhi-110052.

Date:- 08-10-2020

BINDESHWAR PANDIT
MCD Structural Engineer
License No.SE-26
264, D.A. Flats, Nimri Colony
Ph-IV, Ashok Vihar, Delhi-52

Certified True Copy

RUCHIKA SUKHIJA
Principal
Mahavir Senior Model School
Sangam Park Ext., G.T. Karnal Road
Delhi-110033