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SURIYA PRABHA STRUCTURAL CONSULTANTS

10/A4, Elegant Apartments, Perumal Koil First Street,
Kottur, Chennai - 600 085

S. Suriya Prabha, MCA
E-mail: ramji46@gmail.com
Mobile No. 9841558485

Er.S. Ramachandran
M.E.Struct, D.I.I.T. Building Tech.,
Office No. 044 - 2366 0056

STRUCTURAL STABILITY CERTIFICATE

We Certify that the Proposed Residential Buildings Project, "BROOKSIDE RESIDENCES" with Villa Numbers. 8,9,10,11 & 39 (**05 Villas**) situated in Plot Numbers - Plot 9 Southern Side Part And Plot 8, Plot 10 & 9 Northern Side Part & 42 (3 Plots) comprised in Survey Nos. 223/1A, 223/1B, 240, 241, 242, in the Layout 'Maansarovar Nagar' approved by Chennai Metropolitan Development Authority (CMDA) vide P.P.D.L.O. No. 126 / 2021 in Letter No. L1/13899/2020 dated 31/08/2021, & Layout RERA approved by the Authority vide, TN/ 01/ LAYOUT/ 7108/ 2022, Dated 25.08.2022, situated at Rendamkattalai Village, Kundrathur Taluk (Previously Pallavaram Taluk), Kanchipuram District, and within the Sub Registration District of Pammal and Registration District of Chennai South.

As per Structural Design Calculation:

These Buildings (Ground + 1st Floor) are designed for all forces as per code.

The soil Medium Dense Brownish Medium to Fine Sand.

The foundation depth proposed at 2.0m and SBC at this depth is 100kn/m^2.

Isolated and Combined footing proposed for foundation.

Loading:

1. Floor	:	3KN / M^2
2. Roof	:	1.5KN / M^2
Concrete	:	M-20
Steel	:	Fe 500
Earth Quake Zone	:	III

Er.S.RAMACHANDRAN
M.E (Struct), DIIT (Bldgs. Tech)
Structural Engineer Grade - 1 (SE)
CMDA Reg. No:SE/GR-1/19/03/029
Valid upto 21.03.2029

Clear Cover:

Footing	:	50mm
Columns	:	25mm
Beam	:	40mm
Floor Slab	:	20mm
Roof Slab	:	25mm
Development Length	:	40d + 10d
Type of Foundation	:	Shallow Foundation

We certify that the building is designed as Earthquake Resistant Building .We will frequently inspect the site for quality of materials and construction.

The Building is designed as per IS codes.

IS 875	-	for loads calculation.
IS: 456-2000	-	Concrete code
IS: 1893-2002	-	Earthquake Resistant Design of Structures.
IS: 13920-1993	-	Ductile Detailing for Earthquake Resistant
IS: 800 – 2002	-	Steel Code

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Reinforcement detailing is proposed as Ductile detailing for Earth quake.

We certify that the design is Structurally Safe and sound and inspection will be carried out then and there for quality of materials and construction .

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COLUMNLOADCALCULATION:

Floorslab:

Self weight	0.125x 25	3.125KN/m2
Live load		3.00KN/m^2
FloorFinish		1.00KN/m2
		7.125KN/m2
	Say8KN/m2	

TerraceFloor slab:

Self weight	0.125 x 25=	3.125KN/m2
Live load		1.50KN/m2
FloorFinish		2.50KN/m2
		7.125KN/m2
	Say8KN/m2	

LoadonColumnAl:

FromSlab	2.0x2.0x16	64
FromWall	4.0x0.20x20 x7.20	115
		179KN

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			Say**200**	KN				
Cl	200	300	200.0	15.00	22.50	ALL SIDES.	0.80	4.80

DESIGN FOR FOOTING

ISOLATED FOOTINGFOR AXIAL LOAD AND MOMENT WITHOR WITHOUT ECCENTRICITY

GENERALDATA

FCKINN/SQ.MM.....==25
FYINN/SQ.MM.....==500
EFECTIVECOVER TO CENTRE OF REINF.IN MM.....==50 DOES
THE FOOTINGREST ON HARD ROCK ?(Y/N) . =N
DOYOUWANTTODESIGNECCENTRICFOOTING?(Y/N)=N
S.B.CINKN/SQ.M.....==150
PTMINIMUM FORTENSION STEEL?(0.12 /0.20)...=.2 NO.
OFFOOTINGS TO BE DESIGNED?. . . . .=1

DESIGNOF SIMPLESQUAREORRECTANGULARFOOTING

SEQUENCEOFINPUTS:
[1]NAME,[2]LOADINKN.,[3]PEDESTALSIZEINMMINX-DIR,[4]PEDESTALSIZEIN MM IN Y-DIR,[5] LENGTHOFFOOTINGIN MINX-DIR,{LX} [6] WIDTHOFFOOTINGIN MINY-DIR {LY}
NOTE:FORSQUAREFOOTINGGIVEBOTHLX&LYASZERO
FORRECTANGULARFOOTINGGIVEREQUIREDVALUEEITHERFORLX ORLY WITH OTHERVALUEASZERO

.**DESIGN FOR COLUMN**

DESIGNOFLONG/SHORT COLUMNWITH BIAXIAL BENDING

GENERALDATA

FCKINN/SQ.MM - - - - - - - - - - =25

FYINN/SQ.MM - - - - - - - - - - =500

EFFECTIVECOVER TOCENTREOFSTEELINMM(d')=40 TYPE
OFCOLUMN
SHORT COLUMN- UNIAXIAL BENDING: 1
SHORT COLUMN- BIAXIAL BENDING: 2
LONGCOLUMN. . . . . : 3

GIVENUMBERFORYOURCOLUMNTYPE(1/2/3)=1

,TOTALNO.OFCOLUMNSTOBEDESIGNED?.. =1

.DO YOU WANT PRINTOUT ?(Y/N) '.. . = n

UNSUPPORTEDLENGTHOFCOLUMNLx IN M .. =3

TOTALCOLUMNS:1

SEQUENCEOFINPUT:[1]N$,[2]B,[3]D,[4]P,[5]**MX,**[6]REINF.POSITION[AFor AllSidesORTForTwoSides]

INPUTFORCOLUMNNO[1]=Cl,200,300,200,15,A

ITEMNUMBER=1

COMPUTATIONINPROGRESS.Pleasewait...

NAME B D p MX MUX REINF.POS P% AS

TOTALFOOTINGS=1

INPUTFORFOOTINGNO.1=FI,200,300,200,0,0

S.NO	NAME	LOAD	PDX	PDY						
		FOOTINGDETAILS	IN	IN	IN			LX	BY	D
		[KN]	[MM][MM]		[M]	[M]	[MM][MM]		[CMA2]	[CMA2]
1	FI	200	300	200	1.25	1.25	300	200	5.20B	5.05

NOTE:B DENOTES BOTTOMLAYEROFREINFORCEMENTINTHEMAT



our services doesn't just end there

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Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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