# K.J. Somaiya College Of Engineering

# Vidyavihar (E) Mumbai-77

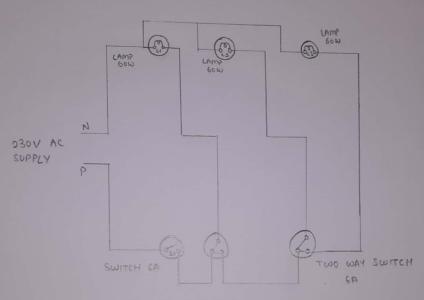
### **ELECTRICAL WIRING**

JOB SHEET

NAME: - Hiral Patel	ROLL NO:- 1601042	1071 BATCH:- 43 (1t)
NAME OF EXPERIMENT/JOB:	Godomn miring	<u></u>
TOOLS AND EQUIPMENTS:-		
MCB	230V, 5A	
ene-way smitch		1
two-way smitch	SPDT, 5A	2
ught bulb.	60W	3
PROCEDURE:-		
· Trun eff all the m		neme the main
suppull is smitur	ed ey.	
· connect outre	snither to the	courthing I gnounding.
· connect the new	ral mine from	MCB directly vo
all the three.		
· connect the line	(phase wing)	mire to the first
+ uninal of SPST,		
· Connect the SPPT		n (middle) term-
inal to the second		
· Connect the upp		
no the first lamp!	( )	A CONTRACTOR OF THE PARTY OF TH

· Connect the lomen tenninal offirst spot smitch  to the common (middle ene) of second spot smitch.  · Connect the upper and lomen ten minals of second  8 PDT smitch to the second and third lamp mes-  pech new.  C SPST -> Single pole single throw on singleway.  SPDT -> Single pole double throw on the second.
Wonking:
It is a lineau sequence of smitching i.e. when a
pensen entens the first room en pesition, all lighting
points are emitured OFF as the first spst smitch
is at OFF pesition.
when me,
· snitch en the SPST, the first lampis snitched en.
· Smitch en the first spot, the second lampsmitch
en and the priemiens ene sinitch eff.
· Snitchen the second 3PDT, the third lamp
snitch en and the prieniens (second one) lamp
snitch of
Similarly nihen me, smit in eff the last it second
SPDT the second lamp smitch en and third
lamps nuit cheff and so en until it meaches to the first
Spot init in and the mulle circuit can be inititled eff by timing it eff.
USE:-
and other maring armains but and owns
Godonn miring circuit is needed in tunnel like smutmes, nomenenses, leng passages, big godonns

having lets of rooms and different pennions. It mas
the best choice to some electricity and energy
consumption where only one load i.e. light bulb
ean be exercised at a time. No wadays, as CFL
and LED bulb which consumes low energy, this
types of mining is avoided due to its complexity
ignoring the pomer warmprion.



GODOWN WIRING.

TERM: 2021-22	DATE: 26/12/21	CONCEPT BY:
SEM: I SHOP: ELECTRICAL WIRING	KJ SOMAIYA COLLEGE OF	DRAWN BY:
NAME: HIROL PORTE	ENGINEERING	APPD. BY: INSTRUCTOR SIGN:
ROLL NO .: 16010421071.		

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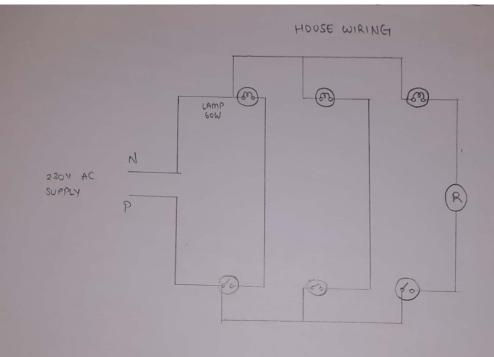
### **ELECTRICAL WIRING**

JOB SHEET

NAME:- HIVAL PATOL ROLL NO:- 16010421071 BATCH:- G3 (IT)
NAME OF EXPERIMENT/JOB:- HOWL WITING.
TOOLS AND EQUIPMENTS:-
lamp-60W
Regulator
Ball push
ene way s mitch-33
Two way smitches.
PROCEDURE:-
·Truneff the main breaken to ensure the main
suppy is snitted eff.
· Connect the neutral mire dimectly from CB to the
first turninal et electric beueu buzzer.
· connect all the push butten smitches lomen
tenninale with line (phase en line) mime from
melated circuit broneaken.
suitures to the first tauminal equindicator
· connect the second tenninals of an indicator lights

bulbs through a common nime and wine them to
the second tenninal of electric ben.
· Do the proper court ing grounding a coording to
yene local amea cod de.
V V V V V V
working:
The ball push circuit used in houses where the bell
is ausigned mumber to a lamps and wriging med
in a painel. The indicator lamp and bell ane
controlled from a different location by push
butten snitches.
USE:-
Bell push circuit is used when a bellsand buzzers
me needed to beconsol from a different location.

where an electric bell is contr	and from a
o capien eu mene.	



TERM: 2021-22	DATE: A AL. L.	
	DATE: 26 12 21	CONCEPT BY:
SEM: I		DRAWN BY:
SHOP: ELECTRICAL WIRING	KJ SOMAIYA COLLEGE OF	APPD, BY:
NAME: tural Patel	ENGINEERING	INSTRUCTOR SIGN:
ROLL NO.: 16010421071.		INSTRUCTOR SIGN.

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#### **ELECTRICAL WIRING**

JOB SHEET

NAME:- Hiral Patel ROLL NO:- 16010421071 BATCH:- 43 (1T)
NAME OF EXPERIMENT/JOB:- Stair CALL MUYING.
TOOLS AND EQUIPMENTS:-
Ammetey
Veltmeter (0-50 ov)
- Lamp (60 W)
two way snitches.
PROCEDURE:-
the first and second pele of SPDT smitchs, is connected
no the conneepending first and second pole of the
SPDT smitched. That is similar peles of both two
suitches are connected to each etherd
The phase of the supply line is connected to the
common pole of a snitth. And the phase line whe
load is taken from the common pele of the next
smith. It makes an armangement that, to dese
the circuit beth the smitches should be in the same
painenin ouder to make the two common poles in
contact to a unique a closed circuit: changing the en

and eff undition of a single smitch can determine
and eff wondition of a single smitch can determine whether the circulit is closed enopen. Thus, in
staircase miring, me can worked the load from
beth pesihone.

Welking supposed you want to egethe bulb from the upper sulit un at the top of affair (uppen penin of stair) simply smitch eff the smitch then circult mill brukk and the brub mill be eff. to smitch en the bulb again, just smitch on the same smitch at upper pension of staircase. In etney woulds you can eff and en bulb from upper snitch at the lop of stair. Yen can penjeum the same from the bettern shirtnes installed in staircase. Suppese you want to eff the brub from the lamen smitch at bottom of stair. Simply el the emitch, then again circuit min brueak and the bulb will be all you can smitch on the bulb again to smitch in the same smitch installed at the bestom on down stairs.

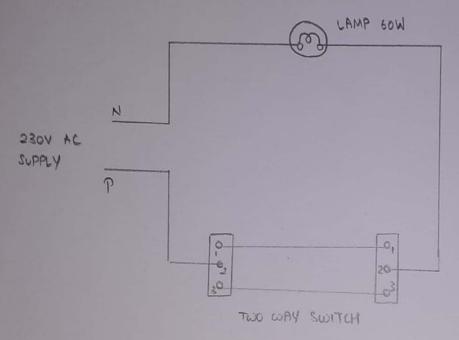
USE:-

the main pumpere eftwoway smitching connection is to connect and control ac appliances and equip-

-ments from Two separate locations.
· It is meet by used in staircose miring mnene a
light brub can be contrered ( smit unen semitures).
from different places, no matter yen ane in the
upper er lo nur pension by the stair.
· It is also used in rooms having lange area which
naetwo enry and mit gates.
· Us need to control any electrical (Acorbc) appliance
er equipment like fan, light bulbs etc. from two
différent places.

This is a simple learning qui de en electrical miring systems. Different types ef electrical miring factors to consider manife seletting an installment method, different types of electrical draming need and also few manyle miring diagrams irranite.

STAIR CASE WIRING



TERM: 2021-22

SEM: I

SHUP: ELECTRICAL WIRING

NAME: Hiral patel

ROLL. NO .: 16010421071

DATE: 26/12/21

KJ SUMAIYA COLLEGE OF FNGINEERING.