# K.J. Somaiya College Of Engineering

# Vidyavihar (E) Mumbai-77

# ELECTRICAL WIRING

## JOB SHEET

NAME: - HOLOL Arya Nair	ROLL NO:-16010421063 BATCH:	613
NAME OF EXPERIMENT/JOB:	Godown Wiring	
TOOLS AND EQUIPMENTS:-		
MCB	230V, 5A	
One-way Switch	SPST, 5A	1
Two-way switch	SPDT, 5A	2
light bulb	60W	3
· Turn of all the m is switched off.		nsure main supply
· Connect all switches	to earthing Iground	ing
· Connect neutral vis	e from MCB dire	ctly in all the three
· Connect the line vir	e to the first terr	ninal of SPST switch.
· Connect SPDT switch	middle terminal to seco	ndry terminal of spsi
· Connect the apper		
to the first lamp		
· Connect lover terminal	of first SPDT and	th to middle
of second SPDT so		

· Connect upper and lower terminals of second SPDT switch
to second and third lamp respectively
SPST - single Pole single throw
SPDT -7 single Pole smake double throw
Working -
It is a linear sequence of switching i.e. when a person enters
the first room or positition, all lighting points are switched off
as the first SPST switch is at off position.
· Switch on SPST, first lamp is switched on.
· Switch on the first SPDT, second lump switch on and previous
one switch off.
· Switch on second SPDT, third lamp switch on and previous
ones switch off.
Similarly when we, switch off last ine second spot, the
second lamp switch on and third lamp switch off and so on
until it reaches to the first spst switch and whole
cirruit can be switched off by turning it off.

brodown wiring circuit is needed in tunnel like structures,
long passages, bis godown having lots of rooms. It was
the best choice to save electricity and energy consumption
where only one load i.e. light bulb can be operated at
a time Novadays, as CFL and LED bulb which consumes
low energy, this type of wiring is avoided due to
its complexity, ignoring power consumption.

Arya Nair 16010421063

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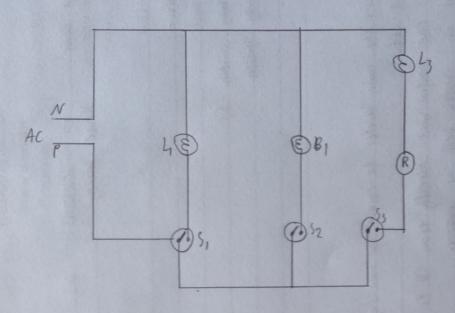
## ELECTRICAL WIRING

### JOB SHEET

NAME:- Arya Nair ROLL NO:-16010421063 BATCH:- 673
NAME OF EXPERIMENT/JOB:- House Wiring
TOOLS AND EQUIPMENTS:-
Lamp-604
Regulator-
Bell push
one way switch -53
Two way switch.
PROCEDURE:-
· Turn off the main breaker to ensure the main supply is
· Connect the neutral wice directly from CB to first
therminal of electric bell or buzzer.
* Connect all the push button switches lover terminal to the line wire from related circuit breaker.
· Connect the upper terminals of push button switches to
the first terminal of indicator lamps or bulbs
· Connert the second terminal of all indicator lights or bulb
through a common wise and wise them to the second
terminal of electric bell.

* Do the proper earthing/grounding according to
your a local area code.
Working
The bell push circuit used in howes where bell is
assigned number of lamps and configured in a panel
The indicator lamp and bell are controlled from different
* location by push button switches

This circuit is used when bells and buzzens are
needed to control from a different location.



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### **ELECTRICAL WIRING**

### JOB SHEET

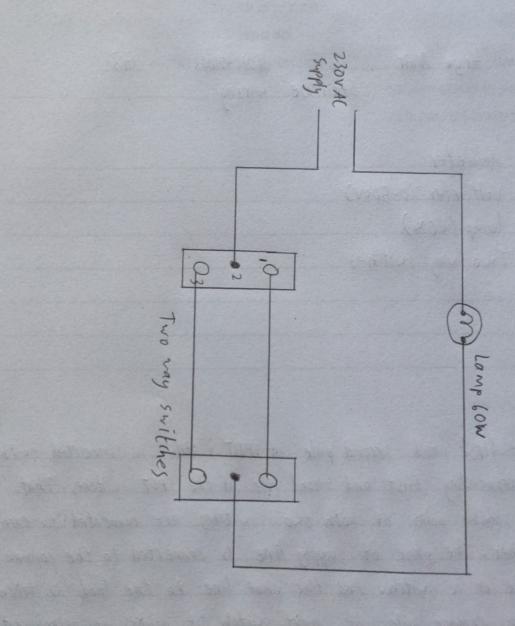
NAME: Arya Nois	ROLL NO:	-1601042106	BATCH:-	75	
NAME OF EXPERIMENT/JOB:- 5+0	irea)e	wiring			
TOOLS AND EQUIPMENTS:-					
Anmeter					
Voltageter (0-500V)					
lamp (60W)			N. A. S.		
Two way switches		14 15			
			4		
			H A		
The Mark that I					

#### PROCEDURE:-

The first and serond pole of SPDT switches, is connected to the corresponding first and serond pole of the SPDT switches. That is similar poles of both two switches are connected to each other, the phase of supply line is connected to the correspond pole of a switch. And the phase line to the load is taken from common pole of next switch the makes an arrangment that to abse the circuit both switch should be in some position in order to make two common poles in contact to acheive a closed circuit. Changing the on and off of a single switch ran determine wether the circuit is closed or open. Thus in stainage wing, we can control the bad

from both positions.
Working
Euppose you want to off the bridge from the switch at top of stairs, simply switch off the switch then circuit will
break and bulb will be off. You can off the light from
the circuit requires both switches in the same
position a the other. This closes the circuit thus
matting bulb glow.

· The main purpose of two way switching connection is to
connect and control Al appliances and equipment from
two separate locations.
· It is mostly used in staircase viring where a light bulb
ran be controlled from different places, no matter you
are in upper or lower position of stair.
· It is also used in rooms having large area which has
two entry and exit gates.
. It is used to control any electrical appliances or equipment
like fan light bulbs etc. From two different places.



Conclusion -	
This assign simple learning guide on electrical wiring s	- etp
Different times of alastated win Cotas to a la	121
Different types of electrical wiring factors to consider	while
selecting a wiring design.	
	W. K.