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TYBSC project

PROJECT REPORT ON
"STUDY OF FACILITIES OF HOSPITAL IN DHULE CITY"

T.Y.BSC STUDENTS IN Z.B.PATIL COLLEGE

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DEPARTMENT OF STATISTICS



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"Department of Statistics"

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T.Y.B.Sc. (2019-2020)

Department Of Statistics

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INTRODUCTION

Mostly, it is observed that patients are not satisfied with the services which are provided by the hospitals. Quality improvement involves a combined effort among health care system. To have safety for the patients is the basic facility of any health care system. In this project, we study the facility provided by renowned private hospitals in Dhule city.

This project is based on primary data which is collected from all the renowned hospitals from Dhule city. The main aim behind this project is that to detect the facilities and safety measures of hospitals in Dhule City.

In this project, there is an information which is collected from the 10 most renowned hospitals in Dhule City. The regarded information includes the reviews of patients which were admitted in those particular hospitals.

Now a days there is big issue related to health if, health is not well then it is necessary to choose the better hospital for our medical treatment. Hence, our intension behind this project is to determine the facilities and detection of safety measures in those hospitals. The opinions of the patients about the hospital facilities has been pointed out through sampling. This project includes the information regarding to government schemes which are running in some of the hospitals.

Sources of Data

This project is based on primary data survey. We have taken survey for 10 multi-specialty hospitals in Dhule city. From these hospitals we have taken sample of size $n = 94$.

Objectives

1. To compare different hospitals and different facilities.
2. To find the correlation between facilities and no. of patients arrived in OPD.
3. To check the opinion about quality of food in canteen is good or not.
4. To check the response of staff to patients is quick or bad.
5. To check the waiting time distribution for different hospitals is same or not.
6. Feedback of patient

Statistical Tools

The main statistical tools used for collection and analysis of data in this project are: -

- Questionnaire
- Test of Randomness
- Correlation co-efficient
- ANOVA
- Testing of Hypothesis
- Kruscal Wallis H Test
- Association of Attributes
- Graphical Representation
- Tabular Representation

Test of Randomness

H_0 : Sample is random. Vs H_1 : Sample is not random.

To test the above hypothesis, first we find the value of r , i.e. no. of runs,

m = patient is male.

f = patient is female.

The sample is,

Sample size $94 > 20$, so we use Normal Approximation of Run Test,

r = no. of runs = 46

n_1 = no. of male patients = 55

n_2 = no. of female patients = 39

The test statistics is,

$$Z = \frac{[r - E(r)]}{\sqrt{\text{Var}(r)}} \sim N(0,1)$$

Consider,

$$E(r) = \frac{(2*n1*n2)}{(n1+n2)} + 1$$

$$E(r) = 46.64$$

$$\text{And, } \text{Var}(r) = \frac{(2*n1*n2)*(2*n1*n2-n1-n2)}{(n1+n2)^2*(n1+n2-1)}$$

Two sample Population proportion Test

- A) In the sample survey of hospital, out of 94 patients, 55 were Males and 39 were Females.

$$H_0: p_1 = p_2 \quad \text{vs} \quad H_1: p_1 \neq p_2$$

$$p_1 = 0.585106383$$

$$p_2 = 0.414893617$$

$$n_1 = 94$$

$$n_2 = 94$$

$$P = 0.5$$

$$Z = \frac{(P_1 - P_2)}{\sqrt{[P * (1 - P) * (\frac{1}{n_1} + \frac{1}{n_2})]}}$$

$$|Z| = 2.333839864$$

$$Z_{\alpha/2} \text{ at } 5\% \text{ l.o.s} = 1.96 \quad \text{since,}$$

$$|Z| > Z_{\alpha/2} \quad \text{at } 5\% \text{ l.o.s}$$

i.e reject H_0 at 5% l.o.s

Conclusion :- Males and Females are not equal no.

There is not differ significant.

B) In the sample survey of hospital, out of 94 patients, 64 were rural area patients and 30 were urban area patients.

$$H_0: p_1 = p_2 \quad \text{vs} \quad H_1: p_1 \neq p_2$$

$$p_1 = 0.68085$$

$$p_2 = 0.31914$$

$$n_1 = 94$$

$$n_2 = 94$$

$$P = 0.5$$

$$Z = \frac{(p_1 - p_2)}{\sqrt{[P * (1 - P) * (\frac{1}{n_1} + \frac{1}{n_2})]}}$$

$$|Z| = 4.959$$

$$Z_{\alpha/2} \text{ at } 5\% \text{ I.o.s} = 1.96 \quad \text{since,}$$

$$|Z| > Z_{\alpha/2} \quad \text{at } 5\% \text{ I.o.s}$$

i.e reject H_0 at 5% I.o.s

Conclusion: - Rural and urban area patient is not equal. There is not differ significant.

Accept H_0 .

i.e, There is no significant difference between hospitals and of waiting time of patients.

Chi - Square Test

H_0 : Patients are uniformly distributed.

Vs

H_1 : Patients are not uniformly distributed.

The No. of patients in each hospitals are as follows:

Sr. No.	Obs. Freq.	Exp. Freq.
1	10	9.4
2	7	9.4
3	7	9.4
4	6	9.4
5	6	9.4
6	20	9.4
7	9	9.4
8	5	9.4
9	15	9.4
10	9	9.4
Total	94	94

By Using MS-Excel, Since,

P-value = 0.013217 and $\alpha = 0.05$

Since, $p\text{-value} < \text{los} = \alpha$

Therefore, Reject H_0 . And hence, Accept H_1 .

Conclusion: -i.e. Patients are not uniformly distributed.

So, it can be said that, no. of patients will differ as per day.

Association of Attributes

In the sample survey of hospital, Out of 94 patients, 55 were Males and 39 were Females Also, 64 patients from rural region and 30 from urban region.

By Using Yule's Co-efficient,

Let, A: Patient is Male.

α : Patient is Female.

B: Patient from Rural region.

β : Patient from Urban region.

N: Total no. of Patients = 94

From the survey Data,

	B	β	Total
A	36	19	55
α	28	11	39
Total	64	30	94 = N

The Co-efficient is given by,

$$Q = \frac{(AB) * (\alpha\beta) - (A\beta) * (\alpha B)}{(AB) * (\alpha\beta) + (A\beta) * (\alpha B)}$$

$$Q = -0.142$$

Therefore, The Attributes A and B are negatively associated.

Conclusion: - i.e. there is negative association between Sex and Residence.

$$\text{Var}(r) = 21.91$$

$$\text{Therefore, } Z = \frac{(46-46.64)}{\sqrt{21.91}}$$

$$Z = -0.1367$$

$$|Z| = 0.1367$$

$$\text{At } \alpha = 0.05,$$

$$Z_{\text{tab}} = Z_{\alpha/2} = 1.96$$

$$\text{Since, } |Z| < Z_{\text{tab}}$$

Therefore, Accept H_0

Conclusion: - i.e. Sample is random.

Correlation

Correlation between service rating and No. of patients come in OPD per day

Sr. No.	Rating	NO. OF PATIENTS
1	4.2	40
2	4.4	80
3	4.4	75
4	3.8	5
5	3.5	19
6	3.3	950
7	2.4	10
8	5	28
9	4	13
10	3.9	90

No of patient is up

$$\text{Corr}(\text{rating, No. of patients}) = 0.9564$$

Kruscal Wallis H Test

H_0 : The waiting time distribution of hospital is same

Vs

H_1 : The waiting time distribution of hospital is not same

The waiting time distribution for hospitals as follows:-

n1 = 10		n2 = 7		n3 = 7		n4 = 6		n5 = 6		n6 = 20		n7 = 9		n8 = 5		n9 = 15		n10 = 9	
I (R1)	II (R2)	III (R3)	IV (R4)	V (R5)	VI (R6)	VII (R7)	VIII (R8)	IX (R9)	X (R10)										
0 (25.5)	0 (25.5)	90 (90)	0 (25.5)	0 (25.5)	60 (85)	5 (52.5)	40 (77)	15 (62.5)	0 (25.5)										
0 (25.5)	60 (85)	5 (52.5)	5 (52.5)	0 (25.5)	60 (85)	7 (55)	0 (25.5)	15 (62.5)	30 (71.5)										
0 (25.5)	150 (94)	0 (25.5)	5 (52.5)	0 (25.5)	50 (79.5)	0 (25.5)	0 (25.5)	30 (71.5)	30 (71.5)										
0 (25.5)	0 (25.5)	0 (25.5)	30 (71.5)	0 (25.5)	60 (85)	0 (25.5)	0 (25.5)	30 (71.5)	30 (71.5)										
0 (25.5)	15 (62.5)	10 (58)	0 (25.5)	0 (25.5)	60 (85)	0 (25.5)	0 (25.5)	30 (71.5)	30 (71.5)										
0 (25.5)	18 (65)	45 (78)	0 (25.5)	0 (25.5)	30 (71.5)	10 (58)	$\Sigma(R8)=179$	60 (85)	60 (85)										
0 (25.5)	0 (25.5)	60 (85)	$\Sigma(R4)=253$	$\Sigma(R5)=153$	0 (25.5)	15 (62.5)				30 (71.5)	120 (92)								
0 (25.5)	$\Sigma(R2)=383$	$\Sigma(R3)=414.5$			0 (25.5)	0 (25.5)				0 (25.5)	120 (92)								
0 (25.5)					50 (79.5)	0 (25.5)				10 (58)	0 (25.5)								
30 (71.5)					0 (25.5)	$\Sigma(R7)=355.5$				0 (25.5)	$\Sigma(R10)=514$								
$\Sigma(R1)=301$					0 (25.5)					0 (25.5)									
					120 (92)					0 (25.5)									
					0 (25.5)					20 (66)									
					0 (25.5)					0 (25.5)									
					0 (25.5)					10 (58)									
					0 (25.5)					60 (85)									
					0 (25.5)					30 (71.5)									
										$\Sigma(R6)=1147$									

$$\text{The test statistics is, } H = \frac{12}{n*(n+1)} * \sum \left(\frac{R_i^2}{n_i} \right) - 3 * (n + 1) \\ = 15.65$$

At $\alpha = 0.05$, since, $k = \text{no. of samples} = 10$, d.f. = $k - 1 = 9$

$$\chi^2_{9,0.05} = 16.92$$

Since, $|H_{\text{cal}}| < \chi^2_{\text{tab}}$

ANOVA

Hospitals	Facilities					bill	rating
	adm time(in min)	freq of cleaning	quality of food				
1	1	4	0	4	2		
2	35	3	0	4	1		
3	30	3	0	4	2		
4	7	3	0	4	3		
5	0	4	0	4	3		
6	31	2	1	3	2		
7	4	2	0	2	3		
8	8	3	0	5	3		
9	15	3	1	4	2		
10	40	3	0	4	2		

To test,

H_01 : Hospitals do not differ significantly.

H_02 : facilities do not differ significantly.

ANOVA: -Two-Factor Without Replication

ANOVA							
Source of Variation	SS	df	MS	F	P-value	F crit	
Rows	404.597248	9	44.95524978	0.947251	0.497844577	2.152607	
Columns	1814.753948	4	453.688487	9.559664	2.25804E-05	2.633532	
Error	1708.510412	36	47.45862256				
Total	3927.861608	49					

Since, $f_{cal} < f_{crit}$

i.e. accept H_01

i.e. hospitals do not differ significantly



Since $f_{cal} > f_{crit}$

Reject H_0

i.e. facilities differs significantly

One Sample Z - test

To test,

H_0 : The response of Staff to Patient is not good.

H_1 : The response of Staff to Patient is good.

i.e. $H_0: \mu = 0$ vs $H_1: \mu < 2$

The test statistics is,

$$Z = \frac{(\bar{X} - \mu)}{(\sigma/\sqrt{n})}$$

$Z_{cal} = 13.41$ p value = 0.002

Therefore, reject H_0 .

Conclusion: - From p value, It is conclude that the response of staff to patient is quick and good.

One Sample Z – test

To test,

H_0 : The quality of food in canteen is not good.

H_1 : The quality of food in canteen is good.

The test statistics is,

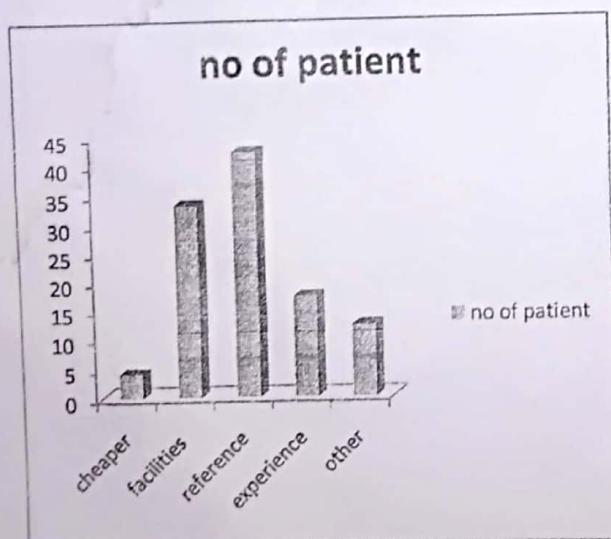
$$Z = \frac{(\bar{X} - \mu)}{(\sigma/\sqrt{n})}$$

$$Z_{\text{cal}} = 28.67 \quad p \text{ value} = 0.003$$

Therefore, reject H_0 .

Conclusion: - From p value, it is conclude that the quality of food in canteen is good.

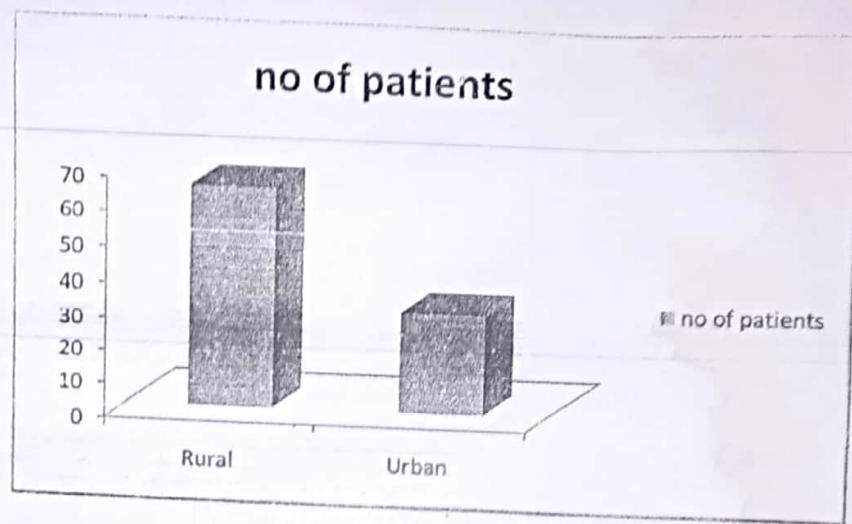
Graphical Representation



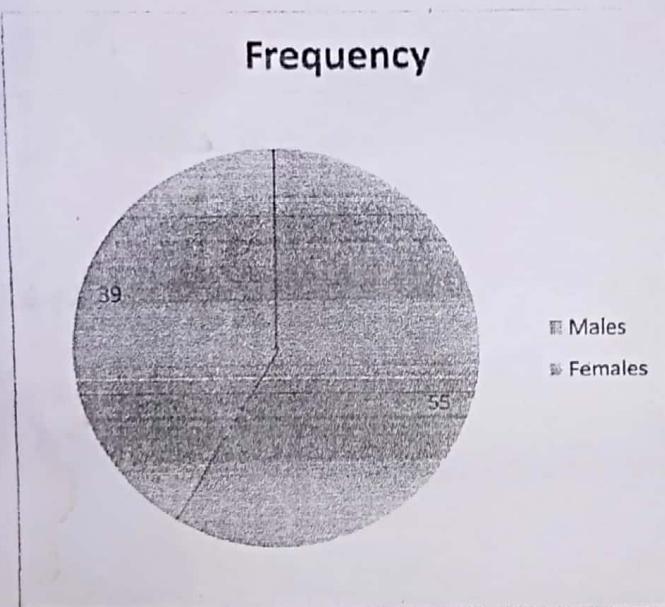
choice	no of patient
cheaper	4
facilities	33
reference	42
experience	17
other	12

Graph

Residence	no of patients
Rural	64
Urban	30



	Frequency
Males	55
Females	39
Total	94



R

Shot on realme 2

By Sr. St. Pankaj patil

CONCLUSION

1. The correlation coefficient between facilities and no. of patients arrive in OPD is = 0.9564
2. There is correlation between facilities and no. of patients arrive in OPD.
3. Hospitals do not differ significantly.
4. Facilities do not differ significantly.
5. The response of staff to patients is quick and good

Recommendations

1. There should be availability of canteen in each hospital.
2. Blood bank should be available in each hospital.

QUESTIONNAIRE

Patient Review :

Hospital Name:

- 1) Name:-
- 2) Age:-
- 3) City / Town:-
- 4) Why you choose this Hospital?
a) Cheaper b) Facilities c) Refer d) Experience e) Other
- 5) What is the Response of Staff to the Patient's Requirement ?
a) Quick Response b) Good Response c) late Response
- 6) What is the Time required to communicate with Doctor after admitting the Patients?
- 7) How many times Hospital becomes clean in a day ?
a) less than 2 time b) More than 2 times c) Other
- 8) How is the Quality of Food in Canteen ?
a) Good b) Average c) Poor
- 9) What is the Rating for Hospital Environment?
a) 1* b) 2* c) 3* d) 4* e) 5*
- 10) What is your Opinion about Hospital Bill Payment ?
a) Cheaper b) Average c) Costly

Survey Conductor Team Review :-

- 1)
- 2)
- 3)



Shot on realme 2

By Sr. St. Pankaj patil

QUESTIONNAIRE

Hospital Review :

Hospital Name :

- 1) Is there Service of Parking?
 - 2) Is there facility of Ambulance?
 - 3) Is Security Guard there?
 - 4) Is there Medical facility available?
 - 5) Is there Service of Lift?
 - 6) Is Canteen available there?
 - 7) Is there availability of Fire Safety?
 - 8) Is cleanliness present there?
 - 9) Is there Pure Water available to Drink?
 - 10) Is there availability of Generator in the absence of Electricity?
 - 11) Is there proper management of waste material?
 - 12) Is there availability of Blood?
 - 13) Is there availability of Pathology Laboratory?
 - 14) Is there ICU Room for Emergency?
 - 15) Are Government Schemes running there?
 - 16) Is there availability of CCTV camera's ?
 - 17) What is the time duration for OPD?
From : _____ To : _____
 - 18) How many Patient's come in a Hospital per day?

Hospital Reviews

Hospital	Seva	Tejnaksha	Omkar	Shri Ganesha	Chirantan	ACPM	Sai Manvata	Life Surgical	Vighnaharta	Siddheshwar
Q.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.2	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
Q.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.6	No	No	No	No	No	Yes	No	Yes	Yes	No
Q.7	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.12	No	No	No	No	No	No	No	No	No	No
Q.13	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Q.14	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.15	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes
Q.16	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Q.17(hrs)	4	6	7	6	3	6	9	6	7	10
Q.18	40	80	75	5	19	950	10	28	13	90

Sr No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6(min)	Q.7	Q.8	Q.9(in stars)	Q.10
1	Pandit Borse	45	Save facilities	Quick	instant	5	Null	4	Average	
2	Digamber Wagh	50	Dhule	Cheaper, facilities	Quick	instant	4	Null	5	Cheaper
3	Rajendra Mali	50	Dhule	Experience	Late	instant	3	Null	3	Costly
4	Vinod Bhandare	27	Dhule	Cheaper, facilities	Quick	instant	3	Null	5	Cheaper
5	Indrakumar Salunke	22	Mohadi	Refer	Quick	instant	7	Null	5	Costly
6	salim shaikh	25	Dhule	facilities	Quick	instant	3	Null	4	Average
7	Rajendra Chaudhari	42	Dhule	Facilities, Cheaper	Quick	instant	3	Null	4	Cheaper
8	chudaman Bhamre	20	Mehergaon	Refer	Quick	instant	2	Null	4	Cheaper
9	Bhatu sutar	77	Visanwadi	Experience, Facilities	Quick	instant	2	Null	5	Average
10	Devkibai Waghmare	40	Dhamnar	Experience	late	30	4	Null	3	Average
11	Sunny Patil	23	Ravad	Facilities, Cheaper	Quick	instant	3	Null	4	Cheaper
12	Amrut Bhamre	62	malegaon	Experience	Quick	60	2	Null	5	Cheaper
13	Rahul Sonawane	28	Chalisgaon	Facilities, Experience	Quick	150	3	Null	4	Cheaper
14	Devibai patil	61	parola	Facilities, Experience	Quick	instant	3	Null	5	Cheaper
15	Ravindra Chaudhari	67	taloda	Facilities	Quick	15	3	Null	3	Average
16	Jankibai patil	60	Balapur	Facilities, Experience	Quick	instant	2	Null	5	Average
17	Sanjay Sonawane	50	Dhule	Facilities, Experience	Quick	instant	3	Null	5	Cheaper
18	chayya Mahale	42	Amner	Experience	Quick	15	3	Null	4	Average
19	Fatima Amina	55	malegaon	Refer	Quick	instant	3	Null	3	Average
20	Dushrati Girase	35	Dongargaon	Experience	Quick	30	3	Null	3	Costly
21	Vastlabai salunkhe	55	Shewali	Other	Quick	instant	4	Null	4	Costly
22	Bhimsing Maisure	60	Shahada	Refer	Quick	instant	3	Null	5	Costly
23	Rajendra Patil	40	Chopda	Refer	Quick	60	3	Null	4	Average
24	Jamshing Jadhav	55	Dondaicha	Facilities , Experience	Quick	30	3	Null	3	Cheaper
25	Raju salindane	50	galaon	Facilities	Quick	instant	3	Null	4	Average
26	Hiraman Patil	53	pachora	Refer	Quick	instant	4	Null	4	Cheaper
27	sanjay suryawanshi	36	Dhule	Refer	Quick	10	4	Null	3	Cheaper
28	Dhanraj Patil	36	Chalisgaon	Refer	Quick	instant	4	Null	3	Cheaper
29	Narayansing Rajput	69	Dondaicha	Experience	Quick	instant	4	Null	4	Average
30	prakash Ahirav	55	kasara	Other	Quick	10	1	Null	4	Cheaper
31	Indragit Jadhav	38	parola	Experience	Quick	instant	2	Null	3	Cheaper
32	sachin mahajan	22	nijampur	Refer, Experience	Quick	instant	2	Null	2	Average
33	phundlik wani	74	lamkani	Facilities	Quick	40	2	Null	3	Costly
34	kalabai mali	65	Borkund	Refer	Quick	instant	2	Null	3	Costly

35	Ruchita Waghr	18	Ner	Facilities	Quick	instant	3	Null	4	Costly
36	Gulab Patil	50	Vapur	Refer	Quick	instant	2	Good	5	Costly
37	Muskan Shaikh	16	Shindkheda	Facilities	Good	instant	1	Average	4	Average
38	Kanhaiyya Patil	30	Amalner	Refer	Good	instant	2	Null	4	Average
39	Munsing Chavan	45	Mordal	Refer	Good	5	1	Null	3	Average
40	Atmaram Mahale	71	Jaitane	Refer	Quick	5	3	Average	4	Costly
41	Tukaram Suryawanshi	36	Chitod	Refer	Good	30	3	Good	4	Costly
42	Bhaudu Bagul	76	Vinchur	Refer	Good	instant	3	Good	3	Costly
43	Adiel Shikh	27	Dhule	Refer	Late	instant	2	Good	3	Costly
44	Baburao Gandhari	36	Chalisgaon	Refer	Quick	5	2	Average	2	Costly
45	Archana Ghilare	32	Chhail	Other	Quick	2	3	Average	3	Costly
46	sushila pawar	52	Vadgaon	Other	Good	instant	3	Average	3	Costly
47	Jyoti Kokande	30	Shindkheda	Refer	Good	instant	2	Average	4	Average
48	Manaru Nikam	47	Shirpur	Refer	Good	instant	3	Good	3	Average
49	Anil Narkar	30	Shahada	Other	Good	10	3	Good	4	Costly
50	Madhu Dheshmukh	54	nijampur	Refer	Good	15	2	Null	4	Costly
51	Sanjay Mali	37	kevatha	FaCostlyilities	Quick	instant	2	Null	5	Costly
52	Vasant Ladav	72	Nadse	Refer	Quick	instant	2	Null	3	Average
53	Shaina Khatik	28	Amalner	Refer	Quick	instant	2	Null	1	Costly
54	Anjum Thadavi	25	Raver	Experience	Quick	instant	3	Null	2	Costly
55	komal sunyawanshi	24	Chalisgaon	Refer	Good	instant	2	Null	2	Costly
56	Tayashre Deore	23	Dondaicha	Facilities	Good	instant	2	Null	1	Costly
57	Ansh Patel	6	Mohadi	Facilities	Quick	instant	3	Null	3	Average
58	prem vanjari	2	Ranikote	Refer	Quick	instant	3	Null	1	Costly
59	Umesh Mali	30	khede	Facilities	Quick	30	3	Null	5	Average
60	Bhagvan mali	26	Kothare	Refer	Quick	60	3	Null	5	Cheaper
61	Rekha Girase	35	Shindkheda	Refer	Quick	60	3	Null	5	Cheaper
62	D. Shinde	65	Dhule	Cheaper	Quick	3	3	Null	5	Costly
63	Nikita Bhamre	13	Khandale	Facilities	Good	60	4	Null	5	Average
64	Shristi Patil	6	Shahada	Experience	Good	30	4	Average	3	Costly
65	piyush Dhabale	5	Dhuregaon	Facilities	Quick	instant	3	Null	3	Costly
66	Mega Koli	21	Thalner	Refer	Quick	long	2	Null	3	Cheaper
67	Vandana Deore	39	Ner	Refer	Quick	instant	2	Null	3	Average
68	Sawita Chaudhari	24	Dhule	Refer	Good	instant	2	Null	3	Costly
69	Rakesh Shimpi	52	Nimgule	Facilities	Good	instant	2	Null	3	Costly

35	Ruchita Waghr	18	Ner	Facilities	Quick	instant	3	Null	4	Costly
36	Guilab Patil	50	Vaypur	Refer	Quick	instant	2	Good	5	Costly
37	Muskan shaikh	16	Shindkheda	Facilities	Good	instant	1	Average	4	Average
38	Kanhaiyya patil	30	Amalner	Refer	Good	instant	2	Null	4	Average
39	Munsing Chavan	45	Mordal	Refer	Good	5	1	Null	3	Average
40	Aatmaram Mahale	71	Jaitane	Refer	Quick	5	3	Average	4	Costly
41	Tukaram suryawanshi	36	Chitod	Refer	Good	30	3	Good	4	Costly
42	Bhaudu Bagul	76	Vinchur	Refer	Good	instant	3	Good	3	Costly
43	Adiel Shikh	27	Dhule	Refer	late	instant	2	Good	3	Costly
44	Baburao Gandhari	36	Chalisgaon	Refer	Quick	5	2	Average	2	Costly
45	Archna Ghitare	32	Chhail	Other	Quick	2	3	Average	3	Costly
46	sushila pawar	52	Vadgaon	Other	Good	instant	3	Average	3	Costly
47	Jyoti kokande	30	Shindkheda	Refer	Good	instant	2	Average	4	Average
48	Manaru Nikam	47	Shirpur	Refer	Good	instant	3	Good	3	Average
49	Anil Narkar	30	Shahada	Other	Good	10	3	Good	4	Costly
50	Madhu Dheshmukh	54	nijampur	Refer	Good	15	2	Null	4	Costly
51	Sanjay Mali	37	kevatha	FaCostlyilities	Quick	instant	2	Null	5	Costly
52	Vasant Jhadav	72	Nadse	Refer	Quick	instant	2	Null	3	Average
53	Shaina Khatik	28	Amalner	Refer	Quick	instant	2	Null	1	Costly
54	Anjum Thadavi	25	Raver	Experience	Quick	instant	3	Null	2	Costly
55	Komal suryawanshi	24	Chalisgaon	Refer	Good	instant	2	Null	1	Costly
56	Tayashre Deore	23	Dondaicha	Facilities	Good	instant	2	Null	3	Average
57	Ansh Patel	6	Mohadi	Facilities	Quick	instant	3	Null	1	Costly
58	prem vanjari	2	Ranaiche	Refer	Quick	30	3	Null	5	Average
59	Umesh mali	30	khede	Facilities	Quick	60	3	Null	5	Cheaper
60	Bhagvan mali	26	Kothare	Refer	Quick	60	3	Null	5	Cheaper
61	Rekha Girase	35	Shindkheda	Refer	Quick	-	3	Null	5	Costly
62	D. Shinde	65	Dhule	Facilities	Good	60	4	Null	5	Average
63	Nikita Bhamre	13	Khandale	Experience	Good	30	4	Average	3	Costly
64	Shristi Patil	6	Shahada	Facilities	Quick	instant	3	Null	3	Costly
65	piyush Dhabale	5	Dhuregaon	Facilities	Quick	instant	2	Null	4	Costly
66	Mega Koli	21	Thalner	Refer	Quick	long	2	Null	3	Cheaper
67	Vandana Deore	39	Ner	Refer	Quick	instant	2	Null	3	Average
68	Sawita Chaudhari	24	Dhule	Refer	Good	instant	2	Null	3	Costly
69	Rakesh Shimp	52	Nimgule	Facilities						

70	Vishal More	21	Var	Experience	Good	120	2	Null	3	Cheaper
71	Manda Patil	65	Titvi	Refer	Quick	instant	3	Good	4	Average
72	Vilas suryawansi	52	Chalisgaon	Facilities	Quick	instant	4	Good	5	Average
73	Bharti Patil	66	pimpri	Refer	Quick	instant	3	Good	5	Cheaper
74	Sambaji Pawar	46	Shindkheda	Refer	Quick	20	3	Good	5	Costly
75	Dipak Kolli	32	Dahiwal	Facilities	Good	instant	4	Good	5	Cheaper
76	Sarlabai Patil	35	Biladi	Experience	Good	instant	4	Null	5	Average
77	Vimalabai Marathe	60	Dhule	Experience	Good	60	2	Good	5	Average
78	Mogara Padvi	20	Amalner	Refer	Quick	3	4	Null	5	Costly
79	Chandrabai Sugan	67	Dhule	Experience, Facilities	Quick	instant	4	Null	4	Average
80	Rajasbal mali	65	Moghan	Facilities, Experience	Quick	30	3	Null	5	Average
81	Manjulabai Hire	63	nijampur	Refer	Quick	30	3	Null	3	Average
82	Vijubai patil	42	ner	Facilities	Quick	instant	4	Null	4	Average
83	Meena Mali	43	Dhadane	Refer	Good	instant	3	Null	3	Average
84	S.Ahira	40	Varshi	Refer	Quick	60	2	Null	4	Average
85	Suresh Mahajan	57	Shirpur	Facilities	Late	120	3	Null	4	Costly
86	Tukaram mali	62	Kalkheda	Refer	Quick	120	2	Null	3	Average
87	Sonubai Patil	80	parola	Facilities	Quick	instant	3	Null	5	Costly
88	sharda deore	40	Shahapur	Refer	Quick	90	2	Null	5	Average
89	mangla sonar	45	shirpur	Facilities	Quick	5	2	Null	5	Cheaper
90	sunanda pawar	55	Amalner	Refer	Quick	instant	2	Null	4	Average
91	anita patil	45	ner	Facilities	Quick	instant	3	Null	4	Cheaper
92	dagdu shimpri	70	Dhule	Experience	Quick	10	3	Null	4	Costly
93	pratibha borse	55	parola	Refer	Quick	45	3	Null	5	Average
94	sandya patil	37	Fagane]	Refer	Quick	60	3	Null	4	Average