APPENDIX I (i)

SENSITIVITY THRESHOLD TEST

Name:				
Date:				
You are provid	led with a seri	es of containe	rs having solutio	ons with increasing
concentration	of one of the	taste qualitie	es (sweet, salty	and sour). Please
identify the tas	ste in each set	and score the	em according to	the concentration.
The samples ar	e not allowed	to be retested.		
-				
Sample Code	Set-1	Set-II	Set III	Total Score
A				
В				
С				
D				
E				
Mean Scores				
C1-				
Scale: While awarding the	ho intoneity ecoro	e take the follow	ing basis into accou	nt
0 - None or taste of	•	s, take the follow	nig basis nito accou	111,
1 - Different from	_	uality not identif	iable	
2 - Weak taste	water but tuste q	duity not identifi		
3 - Medium				
4 - Strong				
5 - Very strong				
, ,				
			Sig	gnature of Judge

APPENDIX I (ii)

THRESHOLD TEST

(ii) Procedure for preparation of solution required for threshold test

Solution	Molarity	Salty	Sweet	Molarity	Sour	Bitter
No.		(Stock	(Stock		(Stock solution	(Stock
		solution	solution			solution
		5.845 g of	34.23 g of		21.015 g of	19.41 g of
					citric	
		sodium	sucrose/L)		acid/L)	caffeine/L)
		chloride/L)				
		ml of stock	ml of stock		ml of stock	ml of stock
		solution to	solution to		solution to be	solution to
		be	be			be
		diluted to 1	diluted to		diluted to 1 L	diluted to
		L	1 L			1 L
1	0.0002	2	2	0.0005	0.5	0.5
2	0.0004	4	4	0.0001	1	1
3-	0.0008/	8	8	0.0002	2	2
4	0.0016	16	16	0.0004	4	4
5/	0.0032'	32	32	0.0006	6	6
6	0.0064	64	64	0.0008	8	8
7-	0.0128	128	128	0.0010	10	10
8	0.0256.	256	256	0.0012	12	12
9'	0.0512	2.994 g/L	17.526 g/L	0.0014	14	14
10	0.1024	5.988 g/L	35.052 g/L	0.0016	16	16
11'	0.2048	11.976 g/L	70.103 g/L	0.0032	32	32
12	0.4096	23.953 g/L	140.206	0.0064	64	64
			g/L			

Source: Jellinek, G. (1964). J. Nutri. Diet. 1:219

APPENDIX II

Score Card for Product Evaluation

Panel I	Member's N	ame:			Cont	act No.				
approp	Test these samples and check how much you like or dislike one. Use appropriate scale to show your attitude by assigning points that best describe your feeling about the sample. An honest feeling of your expression will help to get unbiased data.									
	t Name:									
,	Date:									
Code	Colour/	Mouth	Texture	Taste	After	Overall				
	Appeara nce	feel			Taste	Accepta bility				
Nota D	المعموم مسعطة بالم	o followin ~	amples by ~	uina acomos						
Minimu	lease grade th im score – 0 im score - 10	e following s	samples by gi	ving scores.						
REMAI	RKS:-									

APPENDIX III

Consent Form

Portocol Number	(CTRI Registration Number)	:
-----------------	----------------------------	---

Subjec	ts Name: Date of Birth / Age:	
1.	I confirm that I have read and understood this information sabove study and have / had the opportunity to ask questions.	heet for the
2.	I understand that my participation in the study is voluntary ar free to withdraw at any time, without giving any reason, without rights being affected.	
3.	I understand that the sponsor, the Ethics Committee and the authorities will not need my permission to look at my health recrespect of the current study and any further research that may be in relation to it, even if I withdraw from the trial. I agree to However, I understand that my identity will not be reveal information released to third parties or published.	ords both in e conducted this access.
4.	I agree not to restrict the use of any data or results that arise from provided such a use is only for scientific purpose (s).	n this study
5.	I understand the study will involve:	
	 Filling up of questionnaire regarding socioeconomic statubehavior, eating pattern, satiety level and dietary intake. Anthropometric measurements and blood pressure measurements and blood sample of 10 ml for biochemical analysis. A fecal sample for microbiological analysis. 	•
6.	I understand that I will be informed of the results of the test (evabnormal) when they are ready. In addition I understand the obtained from me be kept strictly confidential	
Dept.	e to participate voluntarily in the community health study conduction of Foods & Nutrition, Faculty of Family and Community Naja Sayajirao University of Baroda.	-
Thank	ing You.	Date:
Name:		Signature:

APPENDIX IV

QUESTIONNAIRE

Confidential Research Purpose only

Dat	e Of Survey			Code:	
Α.	General Informa	ation:			
A1:	Name:				
	Address Contact No. (H) ail:	(0) (M)			
	Date of Birth: Age (years):				
A6:	Gender:				
	A6 1	Male			
	A6 2	Female			
A7:	Religion:		<u> </u>		
	A7 1	Hindu			
	A7 2	Muslim			
	A7 3	Sikh			
	A7 4	Christian			
	A7 5	Others			
A8:	Type of Family:				
	A81 J	Joint			
	A8 2	Nuclear			
	A8 3	Extended nuclear			
A9:	Number of Fam	ily Members:			
	A9 1	Adults			
	A9 2	Children			

A 10: Socio Economic Status:

	n of the Head (Main	Score	Tick(√)
1.Profession or H	g Member)	7	
		7	
2. Graduate or po		6	
3. Intermediate or	post high school	5	
diploma	·····	4	
4. High school cer		4	
5. Middle school		3	
6. Primary school	certificate	2	
7. Illiterate		1	
A 10 B: Occupat		Score	Tick(√)
(Main earning M	ember)		
1. Profession		10	
2. Semi-Profession	n	6	
3. Clerical, Shop-o	owner, Farmer	5	
4. Skilled worker		4	
5. Semi-skilled wo	orker	3	
6. Unskilled work	er	2	
7. Unemployed		1	
A10 C: Family in	come per month in	Score	Tick(√)
Rs (2010)			
1. ≥ 28114		12	
2. 14050 - 23113		10	
3. 10533 - 14049		6	
4. 7016 - 10532		4	
5. 4204 - 7015		3	
6. 1407 - 4203		2	
7. < 1406		1	
Total Score			
Scores Codes		Socioeconomic class	Tick(√)
26-29 A10CI		Upper (I)	, ,
16-25 A10CII		Upper Middle (II)	
11-15 A10CIII		Lower middle (III)	
5-10	A10CIV	Upper lower (IV)	
<5	A10CV	Lower (V)	

B. Anthropometric Measurements:

- B1) Height (cm):
- B2) Weight (kg):
- B3) BMI (kg/m²):
- B4) Waist Circumference (cm):
- B5) Hip Circumference (cm):
- B6) WHR:
- B7) Body Fat (%):

C. Family History

Members Of Family	Obesity	Hypertension	Diabetes mellitus	Coronary Heart Disease
	C1	C2	C3	C4
Both Parents				
Single Parent (F / M)				
Brother				
Sister				
Grand parents				
Other Relation				
Total Score				

D6 A: Inquiry About Defecation

CODE	DEFECATION	CONDITIONS SCORE							
D6a	Constipation	Yes (1)	No (0)						
D6a 1	Frequency	1		2		3	>3		
D6a 2	Quantity of	Small		Middle			Large (3)		
D6a 3	Hardness of	Very	Hard(2)	Medium	Soft	Muddy	Watery		
D6a 4	Color of Stool	Blackish		Middle			Yellowish		
D6a 5	Odor of Stool	Strong		Medium			Weak (3)		
D6a 6	Feeling after	Bad (1)		Fine (2)			Very fine		
D6a 7	Regular use of	Yes(1)	No (0)						

D. Subject's Medical History

DISORDER	CO DE	YE S (1) N O (0)	DIAGNO SED IN YEAR	DURATI ON (Yrs)	Medicat ion name	Dosage and Freque ncy	Freque ncy of disorde r
OBECITY	D1						
OBESITY							
HYPERTENS ION	D2						
DIABETES	D3						
(DM)							
CHD	D4						
Valve	D4a						
replacement							
RENAL	D5						
DISORDER							
Frequency of	D5a						
UTI							
ARF	D5b						
GI	D6						
DISORDERS	D.						
Constipation	D6a		Reter D	etailed Infor	mation on I	Detecation	
Use of Laxatives	D6a ₁						
Flatulence	D6b		Dofor D	 etailed Infor	mation on l	Clatulanca	
Diarrhoea	D6c		Keier D	etaned mior	mation on i	riatuience	
Abdominal							
Pain	D6d						
Heart burn/	D6e						
Acidity	Doc						
GI Ulcers	D6f						
GI Surgery	D6g						
DENTAL	D7						
PROBLEMS							
Bad Breath	D7a						
Dry Mouth	D7b						
Cavities	D7c						
Bleeding/sw	D7d						
ollen Gums							
LOCOMOTO	D8						
R							
DISORDERS							
Knee joint	D8a						
pain	E of						
Swollen feet	D8b						

Back pain	D8c			
Osteoporosis	D8d			
Osteoarthritis	D8e			
THYROID	D9			
Hyper	D9a			
Нуро	D9b			
SKIN	D10			
DISORDER				
CANCER	D11			
AUTO	D12			
IMMUNE				
DISORDER				

E. Personal Habits

Addiction	Co de	Dail y	Wee kly	Fort nig	Mont hly	Quate rly	Yea rly	Occassi onally	Neve r
		7	6	5	4	3	2	1	0
Alcohol	E1								
Cigarette/Bidi	E2								
Tobacco Powder	E3								
Tobacco Paste	E4								
Snuff	E5								
Tea (>	E6								
Coffee (>4	E7								
Aerated drinks	E8								
TOTAL SCORE									

Response

Yes 1

Code

P1

F. Physical Activity Pattern (GPAQ Version 2:Who 2007)

Does your work involve vigorous-intensity activity that causes

large increases in breathing or heart rate like [carrying or lifting heavy loads, digging or construction work] for at least 10

Physical Activity

Questions

Activity at work

minutes continuously?

Next I am going to ask you about the time you spend doing different types of physical activity in a typical week. Please answer these questions even if you do not consider yourself to be a physically active person.

Think first about the time you spend doing work. Think of work as the things that you have to do such as paid or unpaid work, study'training, household chores, harvesting food/crops, fishing or hunting for food, seeking employment. [Insert other examples if needed]. In answering the following questions 'vigorous-intensity activities' are activities that require hard physical effort and cause large increases in breathing or heart rate, 'moderate-intensity activities' are activities that require moderate physical effort and cause small increases in breathing or heart rate.

	[INSERT EXAMPLES] (USE SHOWCARD)	No 2 If No,	901014	
2	In a typical week, on how many days do you do vigorous- intensity activities as part of your work?	Number of days		P2
3	How much time do you spend doing vigorous-intensity activities at work on a typical day?	Hours : minutes hrs	: L_L_I mins	P3 a-b)
1	Does your work involve moderate-intensity activity that causes small increases in breathing or heart rate such as brisk walking [or carrying light loads] for at least 10 minutes continuously? [INSERT EXAMPLES] (USE SHOWCARD)	Yes 1 No 2 If No	, go to P 7	P4
5	In a typical week, on how many days do you do moderate- intensity activities as part of your work?	Number of days —		P5
5	How much time do you spend doing moderate-intensity activities at work on a typical day?	Hours : minutes hrs	: L mins	P6 a-b)
Trav	el to and from places	**		
Now	next questions exclude the physical activities at work that you h I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed]		, for shopping, to market, to place	of
Now wors		om places. For example to work		of P7
Now wors 7	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? In a typical week, on how many days do you walk or bicycle for	om places. For example to work Yes 1 No 2 #	, for shopping, to market, to place	
Now wors 7	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places?	Yes 1 No 2 If		P7
Now wors 7 8	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? In a typical week, on how many days do you walk or bicycle for at least 10 minutes continuously to get to and from places? How much time do you spend walking or bicycling for travel on	Yes 1 No 2 If I Number of days Hours: minutes	No, go to P 10	P7 P8 P9
Now wors 7 8 9	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? In a typical week, on how many days do you walk or bicycle for at least 10 minutes continuously to get to and from places? How much time do you spend walking or bicycling for travel on a typical day?	Yes 1 No 2 If Number of days Hours : minutes hrs	No, go to P 10	P7 P8 P9
Now wors 7 8 8 9	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? In a typical week, on how many days do you walk or bicycle for at least 10 minutes continuously to get to and from places? How much time do you spend walking or bicycling for travel on a typical day? reational activities next questions exclude the work and transport activities that yo	Yes 1 No 2 If Number of days Hours : minutes hrs where already mentioned. tivities (leisure), [insert relevant Yes 1]	No, go to P 10 I : LIII mins terms].	P7 P8 P9 (a-b)
Now wors 7 8 8 9 Recr	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? In a typical week, on how many days do you walk or bicycle for at least 10 minutes continuously to get to and from places? How much time do you spend walking or bicycling for travel on a typical day? reational activities next questions exclude the work and transport activities that yo I would like to ask you about sports, fitness and recreational activities that cause large increases in breathing or heart rate like [running or football,] for at least 10 minutes	Yes 1 No 2 If Number of days Hours : minutes hrs where already mentioned. tivities (leisure), [insert relevant Yes 1]	No, go to P 10	P7 P8 P9
Now wors 7 3 3 Pecr The I	I would like to ask you about the usual way you travel to and fr hip. [insert other examples if needed] Do you walk or use a bicycle (pedal cycle) for at least 10 minutes continuously to get to and from places? In a typical week, on how many days do you walk or bicycle for at least 10 minutes continuously to get to and from places? How much time do you spend walking or bicycling for travel on a typical day? Teational activities The ext questions exclude the work and transport activities that you would like to ask you about sports, fitness and recreational activities that cause large increases in breathing or heart rate like [running or football,] for at least 10 minutes continuously?	Yes 1 No 2 If Number of days Hours : minutes hrs where already mentioned. tivities (leisure), [insert relevant Yes 1]	No, go to P 10 I : LIII mins terms].	P7 P8 P9 (a-b)

	sical Activity (recreational activities) contd.		Response	Code
13	Do you do any moderate-intensity sports, fitness or recreational (leisure) activities that causes a small increase in breathing or heart rate such as brisk	Yes		
	walking.(cycling, swimming, volleyball)for at least 10 minutes continuously? [INSERT EXAMPLES] (USE SHOWCARD)	No	2 If No, go to P16	P13
14	In a typical week, on how many days do you do moderate-intensity sports, fitness or recreational (feisure) activities?	Number of days	ш	P14
15	How much time do you spend doing moderate-intensity sports, fitness or recreational (leisure) activities on a typical day?	Hours: minutes	hrs mins	P15 (a-b)
Sede	ntary behaviour			
desk,	ollowing question is about sitting or reclining at work, at sitting with friends, travelling in car, bus, train, reading, RT EXAMPLES] (USE SHOWCARD)			
16	How much time do you usually spend sitting or reclining on a typical day?	Hours : minutes	hrs mins	P16 (a-b)

G. Hunger And Satiety Scale (Zero Day)

Sr. No	Meal Time	Hunger	Satiety
1	Breakfast		
2	Lunch		
3	Evening		
4	Dinner		
	Total Score		
	Mean Score		

Scale	Score
Famished, starving	1
Headache, weak, cranky, low energy	2
Want to eat now, stomach growls and feels empty	3
Hungry - but could wait to eat, starting to feel empty but not there yet	4
Not hungry, not full	5
Feeling satisfied, stomach feels full and comfortable	6
Feeling full, definitely don't need more food	7
Uncomfortably full	8
Stuffed, very uncomfortable	9
Bursting, painfully full	10

H. Beck's Depression Inventory 1. 0 I do not feel sad. 1 I feel sad 2 I am sad all the time and I can't snap out of it. 3 I am so sad and unhappy that I can't stand it. 2. 0 I am not particularly discouraged about the future. 1 I feel discouraged about the future. 2 I feel I have nothing to look forward to. 3 I feel the future is hopeless and that things cannot improve. 3. 0 I do not feel like a failure. 1 I feel I have failed more than the average person. 2 As I look back on my life, all I can see is a lot of failures. 3 I feel I am a complete failure as a person. 4. 0 I get as much satisfaction out of things as I used to. 1 I don't enjoy things the way I used to. 2 I don't get real satisfaction out of anything anymore. 3 I am dissatisfied or bored with everything. 5. 0 I don't feel particularly guilty 1 I feel guilty a good part of the time. 2 I feel quite guilty most of the time. 3 I feel guilty all of the time. 6. 0 I don't feel I am being punished. 1 I feel I may be punished. 2 I expect to be punished. 3. I feel I am being punished. 7. 0 I don't feel disappointed in myself. 1 I am disappointed in myself. 2 I am disgusted with myself. 3 I hate myself. 8. 0 I don't feel I am any worse than anybody else. 1 I am critical of myself for my weaknesses or mistakes. 2 I blame myself all the time for my faults. 3 I blame myself for everything bad that happens. 9. 0 I don't have any thoughts of killing myself. 1 I have thoughts of killing myself, but I would not carry them out. 2 I would like to kill myself. 3 I would kill myself if I had the chance. 10. 0 I don't cry any more than usual. 1 I cry more now than I used to.

	0	T 11.1 (*
	2	I cry all the time now.
	3	I used to be able to cry, but now I can't cry even though I want to.
11	0	The same and the fact of the fact of the same and the sam
11.	0	I am no more irritated by things than I ever was.
	1	I am slightly more irritated now than usual.
	2	I am quite annoyed or irritated a good deal of the time.
	3	I feel irritated all the time
12.	_	
	0	I have not lost interest in other people.
	1	I am less interested in other people than I used to be.
	2	I have lost most of my interest in other people.
	3	I have lost all of my interest in other people.
13.		
	0	I make decisions about as well as I ever could.
	1	I put off making decisions more than I used to.
	2	I have greater difficulty in making decisions more than I used to.
	3	I can't make decisions at all anymore.
14.		·
	0	I don't feel that I look any worse than I used to.
	1	I am worried that I am looking old or unattractive.
	2	I feel there are permanent changes in my appearance that make me
look u	nattract	
	3	I believe that I look ugly.
15.	Ü	To the contract that ye
10.	0	I can work about as well as before.
	1	It takes an extra effort to get started at doing something.
	2	I have to push myself very hard to do anything.
	3	I can't do any work at all.
16.	3	Tean t do any work at an.
10.	0	I can sleep as well as usual.
	1	I don't sleep as well as I used to.
	2	<u>.</u>
a1 a a	2	I wake up 1-2 hours earlier than usual and find it hard to get back to
sleep.	4	Tanada ana arawal banna and banda a Tanada and ana at bada ba
	4	I wake up several hours earlier than I used to and cannot get back to
		sleep.
17		
17.	0	
	0	I don't get more tired than usual.
	2	I get tired more easily than I used to.
	2	I get tired from doing almost anything.
	3	I am too tired to do anything.
18.	_	
	0	My appetite is no worse than usual.
	1	My appetite is not as good as it used to be.
	2	My appetite is much worse now.
	3	I have no appetite at all anymore.
19.		
	0	I haven't lost much weight, if any, lately.
	1	I have lost more than five pounds.
	2	I have lost more than ten pounds.

3 I have lost more than fifteen pounds.

20.

- 0 I am no more worried about my health than usual.
- I am worried about physical problems like aches, pains, upset stomach, or constipation. 2 I am very worried about physical problems and it's hard to think of much else.
- I am so worried about my physical problems that I cannot think of anything else.

21.

- 1 have not noticed any recent change in my interest in sex.
- I am less interested in sex than I used to be.
- 2 I have almost no interest in sex.
- 3 I have lost interest in sex completely.

I. Food Frequency

Food Items	Daily	2-3 Times A	Once A Week	Fort- Nightly	Monthly	Rarely	Never
Total Distant Fibon		Week					<u></u>
Total Dietary Fiber Cereals	T	I		1	1	1	Т
	1						
Bajra							
Jowar Maina Dana							
Maize, Dry							-
Ragi							-
Rice							
Wheat							
Pulses And Legumes	Τ	1		I		1	T
Dals, Dehusked							
Dals With Husk							
Legumes							
Vegetables	_	Т		1			Т
Green Leafy	<u> </u>						<u> </u>
Roots And Tubers							
Other Vegetables							
Nuts And Oil Seeds			1	1	_		
Nuts (Dry Fruits)							
Oil Seeds							
(Peanut, Til Seeds Etc)							
Condiments And							
Spices							
Aniseed (Sauf)							
Cardamom (Elaichi)							
Fenugreek							
Garlic							
Ginger							
Onion							
Fruits Consumed: Days	Per Wee	k			<u> </u>		
High Fiber (G%): > 5							
Sapota							
Custard Apple							
Amla							
Dates , Dry							
Dates, Fresh							
Fig							
Guava							
Moderate Fiber (G%):	4.99 - 3	3.0					
Zizyphus							
Apple							
Jack Fruit							
Jambu							
Pear							
Low Fiber (G%): 2.99 – 0.5							
Papaya							
Banana							
Cherry							
Grapes, Green							

Sweetlime				
Mango				
Musk Melon				
Water Melon				
Orange				
Peach				
Pineapple				
Plum				
Pomogranate				
Strawberry				

J. Dietary Pattern (24 Hr Dietary Recall Method)

Meal And Time	Foods Taken	Ingredients	Amount
EARLY MORNING: (Time:)			
BREAKFAST: (Time:)			
MID MORNING: (Time:)			
LUNCH: (Time:)			
EVENING: (Time:)			
DINNER: (Time:)			
		l .	1

Standard Measures: 1 Cup (Katori) = 200 Ml 1 Tea Cup =150 Ml

1 Glass = 200 Ml