

SB/CT/042/2013



भारत सरकार सेवार्थ
ON INDIA GOVERNMENT SERVICE

Do No: SB/CT/042/2013

To

Dr. Thirunagari Venkateswara Swamy
Professional
Department of Ayurveda,
Green Trees Energy Pvt. Ltd.,
Sushilpa Hills, G-10,
Moulali Hyderabad- 500050, Andhra Pradesh.

विज्ञान और प्रौद्योगिकी विभाग

टेक्नोलॉजी भवन, न्यू महारौली रोड, नई दिल्ली-११००१६

DEPARTMENT OF SCIENCE & TECHNOLOGY, Technology Bhavan, New Mehrauli Road, New Delhi-110016

Science & Engineering Research Board
(A Statutory Body under the Department of Science &
Technology, Government of India)
5 & 5A, Lower Ground Floor, Vasant Square Mall, Plot No. A,
Community Centre, Sector-5, Pocket-5, Vasant Kunj, New Delhi -110070.

Do No: SB/CT/042/2013

Dated: 04/09/2013

To

Dr. Thirunagari Venkateswara Swamy
Professional
Department of Ayurveda,
Green Trees Energy Pvt. Ltd.,
Sushilpa Hills, G-10,
Moulali Hyderabad- 500050, Andhra Pradesh.

Subject: Your project entitled: "GTE-GMR Research on Radiation."
Dear Sir/ Madam,

I acknowledge the receipt of your research proposal mentioned above under Cell Tower Radiation Programme.

Your attention is invited to the following item(s) tick marked below for information and necessary action:

1. The proposal is in order.
 2. Your proposal is being considered. However, kindly, send the following documents/information at an early date, so as to expedite processing:
 - i) A Copy of the proposal through proper channel.
 - ii) ~~Copies of the proposal.~~
 - iii) Certificates from investigators.
 - iv) Endorsement from the head of Institution (On letter head) has/have not been provided.
 - v) Soft copy of the CD of your Project Proposal.
 - vi) The following sections of project performas are incomplete:
 3. In order to enable us to attend your letter promptly. Kindly do quote our references number and date in all your future correspondence. Kindly note that communications without our reference no will not be entertained.
 4. You may send all the documents as indicated in para-2 above/Any further status please contact to Dr. S.S. Kohli.
 5. For further details please log on to www.serb.gov.in
- Thanking you,

Rajeev
Yours faithfully

For
(Praveen Kumar. S)
Scientist 'D'



For GREEN TREES ENERGY (INDIA) PRIVATE LIMITED

[Signature]
Authorised Signatory 6/10/13

Test Report

Test Report No. TR -14/001	Tested On	31-01-2014
Customer Details		
Name & Address of the organization	Green Trees Energy India B3-10 ,HUDA Colony MIG, Chandra Nagar, R.R. Dist - Hyderabad	

Device Under Test Details :	
DUT name : Samsung GURU 1200 with Anti-Radiation Shield	
DUT Received On : 24-01-2014	Status on Receipt : Good/Working

Test Environmental Conditions		
Temperature : 18° C - 25° C	Humidity : 40 -43 %	Test - Location : Lab Chamber



Test. Procedure :	Internal	Reference :	BS/TP/SET
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Enclosed :
* Test Request Form
* Measurement Results
* ISAR Results Screenshots

BNNSPEAG Seal	Tested By	Approved By
Name & Designation	Antriksh Chhabra (Lab Supervisor)	Name & Designation Bharat B Jain (Quality Manager)

Test Request Form

BNNSPEAG/TRF/01


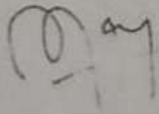

				SAR TEST QUOTE REQUEST FORM		Date:	
CUSTOMER INFORMATION							
CUSTOMER NAME: GREEN TREES ENERGY (INDIA) PVT LTD		ADDRESS & CONTACT NO:		HOUSE NO: B3-10, HUDA COLONY HIG, CHANDA NAGAR, R. R. DIRT HYDRABAD - 500050			
DEVICE INFORMATION							
BRAND/DESCRIPTION: GSM H/S LITE ANTI RADIATION DEVICE		MODEL NO:		SAMSUNG GURU 1200			
CERTIFICATION TYPE:		<input type="checkbox"/> Complete Certification		<input checked="" type="checkbox"/> Test C As Specific Bands			
MODEM / PDA TYPE:		<input type="checkbox"/> General <input type="checkbox"/> Hip <input checked="" type="checkbox"/> Cradle <input type="checkbox"/> Stand <input type="checkbox"/> Carriers <input type="checkbox"/> Other					
TEST FREQ. BANDS:		<input type="checkbox"/> GSM 900 <input checked="" type="checkbox"/> GSM 900		<input type="checkbox"/> GSM 1800		<input type="checkbox"/> WCDMA 1800 <input type="checkbox"/> 2.4 GHz <input type="checkbox"/> 5.8 GHz	
ONLY WITHIN GSM 900 OR TO ALL TESTS:		<input type="checkbox"/> For hand & body worn <input checked="" type="checkbox"/> Car hand only <input checked="" type="checkbox"/> Body worn only					
TEST STANDARDS TO BE USED:		<input checked="" type="checkbox"/> General Population (Controlled Environment)				1. IEC 62205 - 1 (Head Set) 2. IEC 62209 - 2 (Body Set) 3. IEC 62203 - 2003	
COF/CLASS:		<input type="checkbox"/> Class A (unintentional) <input checked="" type="checkbox"/> Class B (hand held) <input type="checkbox"/> Class C (wireless)					
TEST TYPE:		<input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A		WCDMA Type:		<input type="checkbox"/> WCDMA <input type="checkbox"/> GSM <input type="checkbox"/> GSM	
Does the handset contain a WCDMA?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Does the handset contain a GSM?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
SERVICE DELIVERY							
Expected Date of Sample Submission:		24/11/2014		Required Turn Around Time:		2 DAYS	
REMARKS & DISCUSSIONS							
• The shield is to be placed on the back side top centre one cm. below the top edge. • Tests to be done on front side w & w/o shield.							
EVALUATION REPORT (If for Office Use Only):							
• 1g value of SAR to be measured & compared							
Date: 24/11/14		Author:					
Approver of Requirements:		<input checked="" type="checkbox"/>					
Approver and Resources of the Lab:		<input checked="" type="checkbox"/>					
Other Test C. No.: <input checked="" type="checkbox"/>		Office No.:				Other Date:	
SIGNATURES							
For Customer: T.V. SWAMI		For BNSPEAG: NITIN JAIN					
Name: T.V. SWAMI		Designation: DIRECTOR		Name: TECHNICAL MANAGER			
Contact No: 9449009009		Email ID: GATE		Cont. No: 9852223611			
NO. 15							
1. Minimum of 2 samples with 2 batteries and 2 charging units are required to be submitted. * Under Test Conditions, Single Sample will be acceptable							

Measurement Results

Analysis: The results are tabulated as below

		MAX VALUE(mW/Sq.m)	AVG VALUE(mW/Sq.m)
		WITHOUT SHIELD	OUTGOING 1
	INCOMING 1	4.022	1.956
	OUTGOING 2	65.25	4.74
	INCOMING 2	8.234	2.141
		MAX VALUE(mW/Sq.m)	AVG VALUE(mW/Sq.m)
		WITH SHIELD	OUTGOING 1
	INCOMING 1	2.981	2.106
	OUTGOING 2	3.322	1.161
	INCOMING 2	2.733	2.005

As seen in both cases of MAX values and average values measured without SHIELD and with Green Trees Energy SHIELD are less by 15% to 70% in different cases.

Bnnspeag Seal	<i>Tested By</i>		<i>Approved By</i>	
				
	Name & Designation	Antriksh Chhabra (Lab Supervisor)	Name & Designation	Bharat B Jain (Quality Manager)

iSAR Measurement Screenshots

1. Without Shield



2. With Shield at Position 1 (Top Centre below 1 cm of top edge)



3. With Shield at Position 2 (Centre)



4. With Shield at Position 3 (Bottom Centre 1 cm above the lower edge)

