



*Ham*

# RADIO

*News*

Vol VII No.1

Jan/March 2001

The Journal of Amateur Radio Society of India (Member of IARU)

**"AMATEUR RADIO - A NATIONAL RESOURCE"**



Top - VU2ST receiving the "HAM of the Millenium Award"  
Bottom - VU2ST receiving the "Life Time Achievement Award"





**A STANDING OVATION FOR VU2ST SAAD ALI ON RECEIVING THE "LIFE TIME ACHIEVEMENT AWARD"**



**THE ACTUAL OLD MAN WITH HIS "OLDEST HAM AWARD"**



**A VIEW OF THE DELEGATES AT HAM RADIO 2000**



**THE GRAND OLD MAN TRYING HIS HAND OPERATING THE VHF**



**EDITORIAL**

This is the first issue of the Ham Radio News after the Annual General Meeting of the Society, held at Hyderabad on 23rd December, 2000. A Report of the proceeding of the Meeting is being published elsewhere in this issue.

Apart from other matters, a very important matter concerning amalgamation of the ARSI and NIAR was also discussed and several members spoke, some of them very emotionally, on the subject. One point that was missed by most of the speakers was to indicate how to run the Society with the depleted support from the members. The President's speech had highlighted the lack of interest by members in almost all activities of the Society, but no reference was made by any of the speakers to this very important aspect.

Some of those who spoke with lot of emotion preferred that the Society may be allowed to die rather than merge with any other group. This appeared more like the behaviour of those who love their neighbour's wife. They have no responsibility, no commitment, no interaction with the lady, but have serious objection if she wishes to run away with some one.

Such an attitude may be acceptable in fiction, but in real life, does not offer any solution to the problem of finding volunteers to carry out the various functions. Members complain about the contents of the HIRN, but will not make any effort to contribute, either personally or through a friend, any article or write up of interest to the readers.

*Let us face it :*

**1. We need people to**

- function as treasurer (Mr. Venkataraman, with his current commitments, is no longer in a position to devote time for this work)
- function as Editor (Mr. Saad Ali, with his present health problems, is unable to perform this task)
- perform the duties of a QSL Manager,
- make contributions to the magazine on any topic, not necessarily on amateur radio only,
- actively participate in the Society's day to day

functions including enrollment of new members,

- seek advertisements for the magazine so that it can continue publication without being a burden on the Society's finances,
- conduct demonstrations, organise local club meetings and in many ways promote ham radio in schools and other institutions in their city and neighbouring areas.

**2. We need funds to**

- enable us to hire premises for office of the Society,
- procure computers, fax, telephones and other office implements including furniture,
- engage paid employee(s) - even on part-time basis - to run the office in a professional manner, answer queries, keep track of day to day transactions and other activities.
- publish the magazine without dipping into the funds of the Society

Member can write to me or the Secretary their views, opinions, availability etc. on the above topics.

**OFFICE BEARERS****President, IARU Liaison Officer & Award Manager.**

Sahrudin VU2SDN

274, Paryatan Vihar,

B-4, Vasundhara Enclave,

DELHI : 110 096

Phone : 011-262 25 21

Fax : 011-262 19 82

**Vice President**

Dr. Gajapathy Rao VU2GJR

504, Triveni Apts,

157, Barracah Rd., Kilpauk,

CHENNAI - 600010

Phone : 044-642 32 12

**General Secretary**

Adolf B. Shepherd VU2AF

D-7-3/1, Sector 18,

Nalanda Coop Hsg. Soc.

Nerul,

NAVI MUMBAI - 400706

Phone : 022-7619565

email : adolfbs@vsnl.com

**QSL Manager, Chennai**

S. K. Vittal VU2VIT

P. O. Box 1142

CHENNAI - 600061

Phone : 044-2343520

**Editor Ham Radio News**

Saad Ali VU2ST

4, Kurla Indst Estate,

Ghatkopar,

MUMBAI - 400086

Phone : 022-514 75 74 /

509 4241/46 - 6 lines

Fax : 022-511 6890

email : saadngi@vsnl.com

**Treasurer**

P. Venkataraman VU3PVN

C-5, Balaji, Kalina,

Santacruz (E),

MUMBAI - 400055.

Phone : (R) 022-6140918

(O) 022-6133023

email : vitalink@viasom01.

vsnl.net.in

**QSL Manager, Mumbai**

P. O. Box 9282,

Mumbai - 400086

Amateur Radio Soc. of India

email : arsbom@vsnl.net

**CONTENTS**

President Speech AGM ----- 02

Decoding with Diodes ----- 03

Speech Chief Guest HR2K ----- 06

Cancell Callsigns ----- 07

Fox Hunt ----- 11

Minutes of AGM ----- 12

HR2K Report ----- 13

World Amateur Radio Day ----- 15

HAM Profile VU2UR ----- 16

Gujarat Earthquake ----- 16



## **PRESIDENT'S SPEECH AT THE AGM AT HYDERABAD**

As you are aware, the last AGM of your Society was held only in March this year. We have all along been trying to coincide these AGMs with the Annual Hamfest. I am glad that after two abortive efforts in 1998 and 1999, we have been successful this year for which the credit must go to the organisers of Millennium Ham Meet 2000. We are extremely grateful to them for providing this opportunity to the ARSI, otherwise this AGM would have been held in Mumbai with depleted attendance.

You must have gone through the Report on our participation in the 11th IARU Conference in Darwin, Australia which was published in Ham Radio News. We had made a bid to hold the next Conference in India but did not succeed. Taiwan has been selected to host the 12th Conference. We, however, did succeed in having Mr. B.L. Manohar, VU2UR elected unopposed as the Monitoring Service Coordinator for IARU Region 3. This is the first time that some one from India has joined the IARU as an official and he has been deputed by IARU to represent that Organisation at this Ham Meet.

During the past few years, we had tried to help members by importing equipment in bulk from Japan at concessional prices. Our efforts this year have been blocked by vested interests who have lodged protests with the manufacturers not to make supplies except through them, obviously at prices determined by these vested interests. If this is the attitude of the so-called well wishers of the Society, we see no reason to try and help such people who need assistance in getting their licences issued quickly or for renewals, change of QTH and other activities performed by the licensing authority.

During the last couple of years, it has been noticed that members are taking less interest in the running of the Society than ever before. Despite reminders, membership fees are not being paid. Most of the new members are those who need assistance in either getting new licences or renewal of an existing licence, and become member just to utilise the free service offered by the Society.

The Society had approached W. P. C. Wing for amendments to the Amateur Service Rules. These were published in the Ham Radio News and comments were invited from members. Unfortunately, except two

members and one non-member, none else responded. W. P. C. Wing is, however, likely to circulate the proposals among clubs and individuals for comments. If adequate response is not received by them, they may drop the proposals altogether.

After IARU Conference in August this year, the Society wanted to seek additional call sign blocks to be allocated in a rational manner. Suggestions were invited from members in two issues of Ham Radio News on this topic. Not a single comment was received. It is not at all conceivable that none of our members had any comments to offer. Perhaps, it is partly due to lethargy and partly due to lack of interest in the functioning of the Society.

While these events paint a very gloomy picture for the future of the Society, certain facilities provided to us by Mr. Saad Ali, VU2ST, free of cost all these years are not likely to be available next year. Office accommodation, computers, telephones, faxes and a part time employee may cost anything upto Rs. 25,000 per month. The Society can ill afford this expenditure.

Simultaneously, other than Adolf, VU2AF, there is no other volunteer to carry out the various activities at the Society's office, and as a result, the secretary performs additional functions as treasurer, QSL manager and Editor of HRN. He also undertakes promotional tours for increasing membership of the Society.

Such a situation is not tolerable. No society can run without active participation by its members. Members, including Governing Council members, have not exerted themselves to enrol new members, or to obtain advertisements for the Society's Magazine or even to make some interesting contributions to it. This has made the magazine a drab publication. A personal appeal made to 15 industrialists (all members of the Society) to insert just one advertisement in the HRN did not elicit any response from 14 of them. The only encouragement we received was from Upendra Bhai, VU2UK and we are very grateful to him for his instantaneous response.

This being the background, I am unable to see how the Society can survive without volunteers and without finance. This leaves us with only one option: to continue whipping the half-dead horse until it dies a natural death, perhaps within a year.

Members may kindly ponder over this situation and decide the future course of action.



## HOME BREW

### DECODING WITH DIODES

By : B. K. Chattopadhyay VU2NIL

Diodes can be used to decode and produce an output for a given digital bit pattern. Though the method of decoding with diodes is a relic of the digital stone age, it can be used by home-brewers to cook-up simple and dirty frequency dividers. Others have used such frequency dividers. The following lines describe another way of doing the same.

Decoding with diodes is explained with the help of the following example.

An output is desired from a 4-bit digital counter when the count reaches 13.

13 is successively divided by 2 to get this division chart....

2 13	Remainder	Output
2  6	1	Q0
2  3	0	Q1
1	1	Q2
		Q3

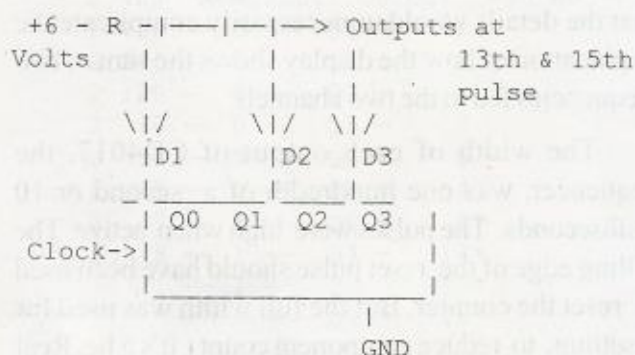


Figure-1

The division chart shows that the remainders corresponding to the outputs Q0, Q2 and Q3 are '1'. When the count reaches 13, Q0, Q2 and Q3 become 'high' or logic '1'. Three silicon switching diodes (1N4148 works fine) are connected to the high outputs as shown in Figure-1. When Q0, Q2 and Q3 are high, the diodes D1 AND D2 AND D3 have very little forward bias across each, as almost equal potential exists at anode and cathode of each diode. As a result, little current can flow through any of the three diodes at the count of 13. The voltage at the junction of the resistor R and the anodes of the diodes become "HIGH", producing the desired output.

This decoding is partial, as Q1 was not invited to participate in the decoding party! Due to this partial decoding there will also be an output at the count of

15. Is such a partial decoding of any use to the home-brewer or it is yet another "nice to know" old method? Well, if the first output ( at the count of 13 ) is used to reset the counter, it will start over from count '0' and the circuit turns into a frequency divider. The counter will never reach the count of '15'.

The frequency division by 13 is shown in Figure-2

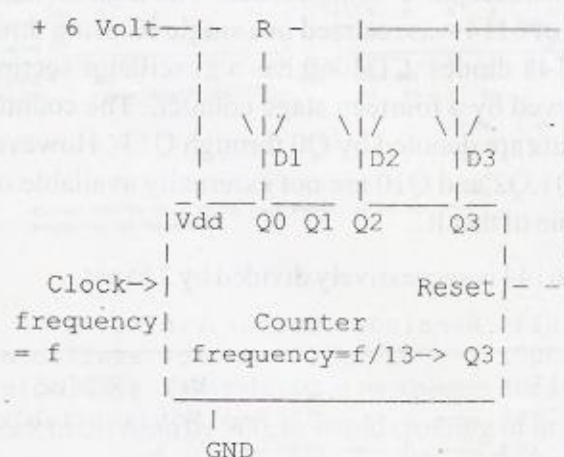


Figure-2

Home-brewers usually use decade counters to get 100 Hz or 1 Hz gate pulses for their digital dials. Using decoding with diodes those gate pulses can be generated using fewer ICs for frequency division.

The reset pulse, two gate pulses and the latch pulse of a two channel digital dial ( IF in one channel, VFO in another and their sum displayed in the readout ) were generated using a crystal, three CMOS ICs, three switching diodes and a few resistors and capacitors. The digital dial had a resolution of 100 Hz.

The following block diagram shows the arrangement.

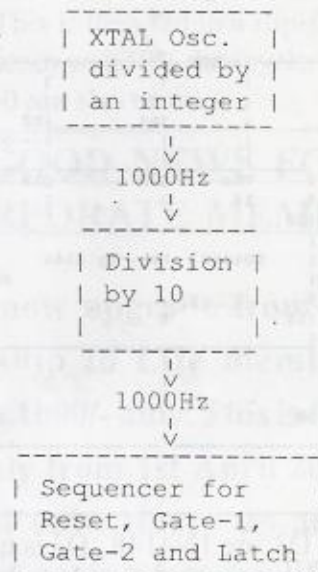


Figure-3



A 6.144 MHz XTAL (left-over from the construction of a ladder filter), One CD4060 CMOS oscillator-counter and three 1N4148 diodes were used to generate 1 kHz. Here is how...

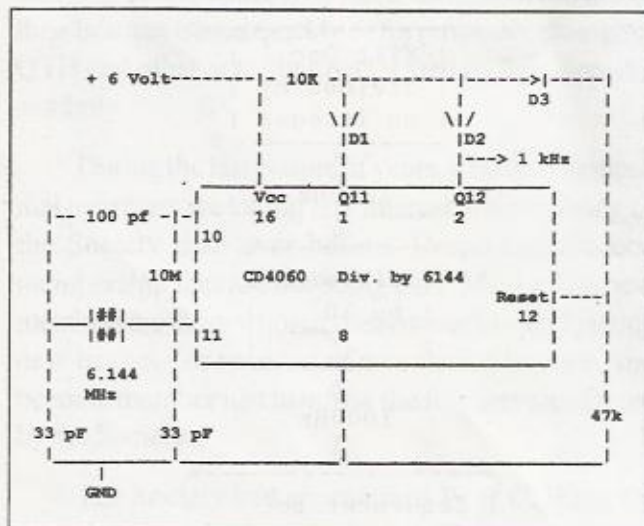
Required division ratio =  $(6144000/1000) = 6144$

CD4060 was reset when the count reached 6144 to get 1000Hz. The count of 6144 was decoded to get the reset pulse using diodes. The high division ratio of 6144 was realized in a single IC using three 1N4148 diodes. CD4060 has an oscillator section followed by a fourteen stage counter. The counter outputs are denoted by Q0 through Q13. However Q0, Q1, Q2 and Q10 are not externally available on any pin of that IC.

6144 is successively divided by 2 to get...

21	6144	Remainder	Output	Pin No.
21	3072	— 0 —	Q0 —	Not available
21	1536	— 0 —	Q1 —	Not available
21	768	— 0 —	Q2 —	Not available
21	384	— 0 —	Q3 —	7
21	192	— 0 —	Q4 —	5
21	96	— 0 —	Q5 —	4
21	48	— 0 —	Q6 —	6
21	24	— 0 —	Q7 —	14
21	12	— 0 —	Q8 —	13
21	6	— 0 —	Q9 —	15
21	3	— 0 —	Q10 —	Not available
21	1	— 1 —	Q11 —	1 *
			Q12 —	2 *

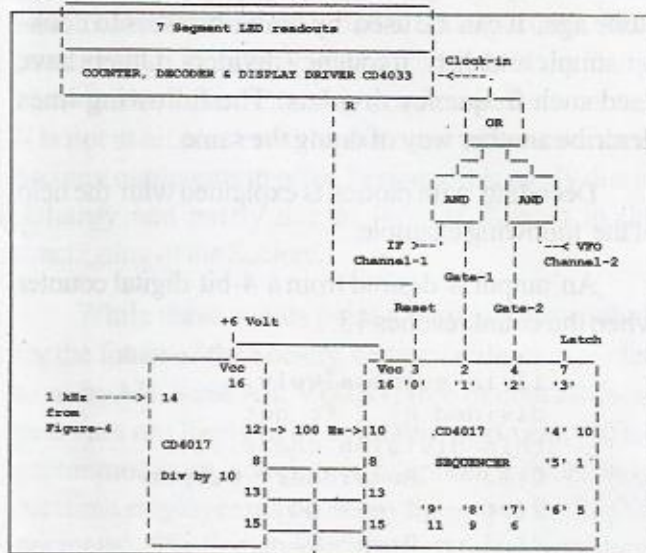
The high outputs are Q11 and Q12, and are marked by < \* >. These two outputs become high when the count reaches 6114. The circuit for the generation of 1000 Hz, using decoding with diodes, is shown in Figure-4. This is the circuit of the first block of Figure-3.



D1, D2 & D3 are 1N4148. D3 is used to keep away the forward voltage drop ( about 0.7 volts ) of D1 and/or D2, from the reset terminal, till the count

reached 6114. If the 1 kHz signal had a kink, it was not revealed by home equipment, there was no CRO in the shack :- However the digital dial worked OK. The duty cycle was unimportant as further divisions set that right.

The circuit diagram for the 2nd & 3rd blocks of Figure-3, is shown in Figure-5.



The circuit of Figure-5 is not the actual one used for the construction of the digital dial. It was felt that the details would unnecessarily complicate the explanation of how the display shows the sum of two frequencies fed to the two channels.

The width of each output of CD4017, the sequencer, was one hundredth of a second or 10 milliseconds. The pulses were high when active. The falling edge of the reset pulse should have been used to reset the counter. But the full width was used for resetting; to reduce component count ( It's a lie. Real intention was to save cost HI ! ).

The counter was not reset after counting the pulses fed to channel one, during 10 milliseconds (duration of Gate-1). During the next 10 milliseconds (duration of Gate-2), pulses from channel two, incremented the counter which already had the counted value of pulses from channel one. Just after Gate-2, the stored value in the counter indicates the sum of two frequencies with 100 Hz resolution.

The rising edge of the latch pulse should have been used to store the reading of the counter in a latch. To reduce component count (hi!) latches were not used at all. So the latch pulse was left unused. This produced a flickering display and it was tolerated!

Display of difference of the two frequencies ( IF minus VFO ) is not possible in this arrangement. If UP/DOWN counters with suitable gating are used,



display of the difference of the two frequencies should be possible. However this was not tested.

A digital dial with 100 Hz resolution is usable, but as a frequency counter such resolution is inadequate. If the digital dial is made with both 1 Hz and 100 Hz resolution, it will be more useful in the HAM shack.

A scheme to get 100 Hz (for digital dial application) and 1 Hz (for frequency counter application) is described in the following lines.

Please note that this arrangement was NOT tested and is meant as a humble suggestion to the experimenter.

**THE EXPERIMENTER IS WARNED THAT ALL OF WHAT FOLLOWS MIGHT BE WRONG**

6.144 MHz is first divided by 960 to get 6400 Hz.

A further division by 6400 is done using another CD4060.

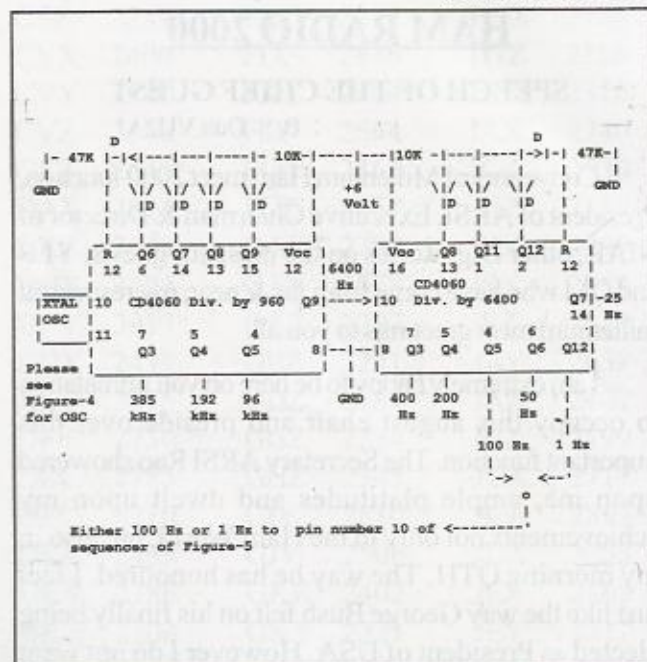
960 and 6400 are divided successively by 2, as before, to get...

2	960	Remainder	Output	Pin no.
2	480	0	Q0	x
2	240	0	Q1	x
2	120	0	Q2	x
2	60	0	Q3	7
2	30	0	Q4	5
2	15	0	Q5	4
2	7	1	Q6	6*
2	3	1	Q7	14*
2	1	1	Q8	13*
			Q9	15*

2	6400	Remainder	Output	Pin no.
2	3200	0	Q0	x
2	1600	0	Q1	x
2	800	0	Q2	x
2	400	0	Q3	7
2	200	0	Q4	5
2	100	0	Q5	4
2	50	0	Q6	6
2	25	0	Q7	14
2	12	1	Q8	13*
2	6	0	Q9	15
2	3	0	Q10	x
2	1	1	Q11	1*
			Q12	2*

Q6, Q7, Q8 & Q9 are high at the count of 960 and Q8, Q11 & Q12 are high at the count of 6400. The related pin numbers are marked by <\*>.

The resulting circuit is shown in Figure-6.



**NOTE :** Q9 is shown at two places inside the block of division by 960, to avoid crossing of lines in the diagram. Both refer to pin number-15. For the same reason, Q12 (pin number-2) is shown at two places inside the block of division by 6400.

Some stable frequencies, shown in Figure-6, are also available.

If some crazy..er...advanced application needs a eight channel frequency counter, the required signals are readily available in the sequencer. The 0th output is the reset signal, 1st through 7th are the eight gate pulses and the 9th output is the latch pulse. Latches have to be used in such an application.

If some application needs square wave of good frequency stability, suitable XTAL and proper division ratio should be chosen to get twice the desired frequency. This is then fed to a flip-flop to get the desired frequency with 50% duty cycle. Counters other than CD4060 can also be used.

## **GOOD NEWS FOR CORPORATE MEMBERS**

You can now upgrade from Corporate membership to Life membership by paying Rs.1000/- only. This is for a limited period only from 1st April 2001 to 30th June 2001 only. Hurry up and upgrade and forget paying fees for life.



## **HAM RADIO 2000**

### **SPEECH OF THE CHIEF GUEST**

B. S. Dutt VU2AJ

Convenors of Millenium Ham meet 2000 function, President of ARSI, Executive Chairman & Director of NIAR, other Dignitaries on the dias, our guests, YLS and OM who have come from far & near, my respectful millenium meet greetings to you all.

I am extremely happy to be here on you immatation to occupy this august chair and preside over this important function. The Secretary ARSI Rao showered upon me, ample platitudes and dwelt upon my achievements not only in the Ham World, but also in my morning QTH. The way he has honoured. I feel just like the way George Bush felt on his finally being elected as President of USA. However I do not want to say that I feel like bring at the top of the World, because I am of the strong opinion that every HAM is capable of achieving his goal in the HAM World or in the morning QTH depending upon the opportunity he gets.

I would like to mention a classic example. OM Rao, much before he got his ticket as 2 RM, visited my QTH in Madras to see how a Ham shack works. I had a home-brew rig, sprawled over 3 shelves of a steel rack with interconnecting wires hanging like a cob-web. After showing him the working of the rig, I went inside the kitchen and got a cup of coffee, but I was surprised to find Rao missing. I had to literally trace him sitting behind the TX rack admiring the mess of wires. That is the real type of interest in the hobby. Now I have to depend upon the same Rao for his versetile RM 96 !! There are many like that say 2 NR, 2SA and others who run HAM nets religiously including a single CW Net run by 2 RJN which requires special mention, Similarly our stalwarts - OM SAAD, OM SURI, OM SAHAR, OM ADOLF who have contributed much for the progress of HAM activity in India.

HAM freternity is very well knit throug out the world. I has worked a LU Ham in Argentina, South America. After a couple years he somehow came to know through some W Hams the flight details of my visit to his Country. I was surprised to see him at the Air Port holding my QSL card to welcome me. I was very much impressed by his sincerity, but unfortunately he did not know a single word of English and I did not know a single word of Spanish. It was all GREEK to both of us ! But we managed depending on ONE LANGUAGE - The Q code and had a hearty laugh.

Without taking much of your time, I would like to make a short proposal.

I have observed that Hams in India are going more and more HITEC to be in line with HAMS abroad. Generally broad-band stable media is preferred to the vagaries of insspheric propagation. Going HI TECH is no doubt a very good tendency, but at the same time. The CW side should not be neglected. With about 30,000 licenced HAMS, you cannot even find a handful of CW stations on the band. I am a brass pounder to the core. Morse code sounds like music to me - very soothing. Even if I am busy. I go on monitoring DX CW QSOs going on the band.

In order to give a boost to CW activity, I propose to keep a permanent capital amount of around Rs 10K with say ARSI, the interest of around one thousand rupees per year be awarded to the CW HAM of the year, either in cash or preferably in kind along with a certificate. The rules and regulations of the scheme have to be worked out in detail by ARSI and the committee members. This scheme of course is subject to acceptance by ARSI to take on this additional responsibility. I hope if due publicity is given to this scheme, the CW activity in India could be revived.

I do not want to dwell into the history of hamming in India & how Indian Ham have selflessly acted as a second line of defence in communication during man-made or God-made calamities as you are all well aware of the same.

What we should now look out for is our plans for the New Year Y2K1 as to the UNITY SOLIDARITY and PROGRESS of HAMS in India. It is imperative that Indian Hams whether they are affiliated to different clubs, societies or Institutes, should form a united single INDIAN NATIONAL UNIT to be the mouth piece for dialogue with Indian communication authorities and fight for our rights of Region 3 in the International forums. If we are divided, our right and interests are likely to be jeopardised.

With this key note, and releasing of the Souvenir, I declare the Millenium Ham meet function officially open You may now proceed with the agenda. Thank you and wish you all a Happy New Year.

---

**The President & Members of the  
Governing Council wishes all the  
members of the Society a very  
Happy and a Prosperous New Year.**



# LIST OF CANCELLED VU2-CALL SIGNS WITH LICENCE NUMBERS

In continuation of our efforts to identify those licence holders who have not renewed their licences for ten years or more, we publish below a list of call signs of Grade II amateurs. Quite a few of the listed persons have upgraded to Grade I or Advance Grade and have acquired new call signs. In addition, there will be those who have become silent keys, have left India or have lost interest in the hobby.

Those who have simply forgotten to renew their licences, may contact the President for further guidance.

Call	Lic. No.	Call	Lic. No.	Call	Lic. No.
AAX	2418	APY	2617	BOY	2685
AAY	2572	AQX	2661	BOZ	2191
AAZ	2284	AQY	2700	BPZ	2311
ABX	2573	AQZ	2159	BRX	2772
ABY	2382	ARX	2505	BRY	2398
ABZ	2651	ARY	2555	BRZ	2286
ACX	2574	ARZ	2155	BSX	2710
ACZ	2224	ASX	2471	BSY	2337
ADX	2575	ASY	2374	BSZ	2081
ADY	2614	ASZ	2285	BTY	2415
ADZ	2230	ATX	2565	BUX	2558
AEX	2576	ATY	2763	BUY	2433
AEZ	2269	ATZ	2107	BUZ	2283
AFX	2577	AUX	2582	BVZ	2222
AGY	2741	AUY	2853	BYZ	2411
AGZ	2425	AVX	2867	CAZ	2216
AHY	2579	AVZ	2150	CBZ	2306
AHZ	2083	AYX	2832	CCZ	2293
AIY	2580	AZZ	2214	CGX	2747
AJX	2782	BAX	2809	CHY	2910
AJZ	2287	BAY	2531	CJX	2760
AKZ	2504	BAZ	2748	CJY	2866
AKY	2618	BBY	2679	CKZ	2423
AKZ	2256	BBZ	2231	CLX	2739
ALX	2670	BCX	2911	CMX	2416
ALY	2653	BDY	2642	CMY	2826
ALZ	2209	BEZ	2366	CNX	2526
AMX	2457	BGY	2581	CNZ	2441
AMY	2490	BGZ	2447	COX	2407
AMZ	2273	BHZ	2091	CPY	2663
ANX	2487	BKZ	2313	CPZ	2380
ANY	2451	BMY	2349	CQZ	2110
ANZ	2158	BMZ	2240	CRX	2811
AOX	2771	BNX	2761	CRY	2445
AOY	2541	BNY	2678	CRZ	2524
AOZ	2321	BNZ	2043	CSX	2472
APX	2592	BOX	2856	CSY	2367

CSZ	2289	FAZ	2227	HSX	2738
CVX	2400	FIX	2886	HTZ	2116
CVY	2641	FKY	2764	HUZ	2316
CVZ	2300	FLY	2664	IAX	2740
CXZ	2645	FOY	2863	ICZ	2530
DAX	2814	FUZ	2257	IHZ	2129
DAZ	2343	GAX	2707	INZ	2299
DCX	2405	GAY	2378	ISX	2834
DCY	2917	GAZ	2207	ISZ	2459
DDX	2479	GBZ	2241	JAY	2638
DDY	2376	GDZ	2184	JAZ	2167
DFY	2730	GGZ	2234	JBZ	2199
DIX	2785	GHZ	2345	JCX	2717
DJZ	2210	GIY	2810	JCZ	2893
DKK	2439	GJY	2500	JDZ	2753
DKY	2386	GKK	2402	JEX	2869
DKZ	2102	GKY	2371	JEY	2711
DLY	2542	GKZ	2204	JEZ	2056
DLZ	2125	GMY	2861	JJZ	2156
DMY	2964	GMZ	2229	JKX	2882
DMZ	2075	GNY	2473	JKZ	2276
DNX	2909	GOZ	2140	JLZ	2219
DOX	2870	GPX	2746	JMX	2858
DPX	2819	GPY	2784	JMY	2851
DPZ	2044	GQX	2934	JMZ	2038
DQZ	2178	GPZ	2145	JNY	2699
DRX	2498	GQX	2934	JOX	2599
DRY	2734	GRX	2474	JOY	2807
DRZ	2226	GRY	2475	JPX	2824
DSX	2537	GRZ	2492	JOZ	2413
DSY	2587	GSX	2399	JPY	2520
DSZ	2564	GSY	2588	JPZ	2392
DTX	2514	GSZ	2277	JQY	2897
DTY	2491	GTY	2424	JRX	2763
DUX	2538	GTZ	2629	JRZ	2733
DUY	2937	GUZ	2157	JSY	2776
DUZ	2295	GVY	2469	JSZ	2132
DVX	2443	GVZ	2242	JUZ	2113
DVY	2850	GWX	2679	JVX	2677
DVZ	2245	GXX	2748	JWZ	2322
DWZ	2093	GYZ	2923	JXZ	2201
DXX	2486	HAX	2752	JYZ	2115
DXY	2907	HBX	2968	KAX	2612
DXZ	2101	HEY	2918	KAY	2455
DZY	2915	HGY	2671	KAZ	2084
EBZ	2228	HJX	2708	KBY	2768
EIZ	2341	HKZ	2334	KBZ	2758
EPZ	2502	HMZ	2136	KCY	2766
ERZ	2365	HOY	2630	KCZ	2183
EVZ	2070	HPZ	2123	KDX	2622
FAX	2583	HRY	2860	KDY	2905
FAY	2368	HRZ	2430	KDZ	2304



KEY	2462	LKZ	2122	MYY	2503	PCY	2634	RCX	2702	RWZ	2959
KEZ	2211	LRZ	2330	MYZ	2420	PCZ	2179	RCY	2535	RXZ	2243
KGX	2603	LSZ	2154	NAX	2825	PDX	2562	RCZ	2331	SAX	2519
KGY	2476	LUX	2750	NAZ	2203	PDY	2756	RDY	2974	SAY	2554
KGZ	2255	MAX	2404	NBX	2422	PDZ	2326	RDZ	2794	SAZ	2320
KHX	2357	MAY	2370	NBY	2387	PEX	2781	REY	2604	SBX	2544
KHY	2346	MAZ	2090	NBZ	2595	PFZ	2333	RFX	2936	SBZ	2292
KHZ	2118	MBX	2669	NCY	2606	PGZ	2170	RFY	2935	SCX	2481
KIX	2516	MBY	2523	NCZ	2480	PHY	2904	RGX	2428	SCY	2615
KIY	2342	MBZ	2225	NDX	2965	PIZ	2288	RGY	2796	SCZ	2198
KIZ	2395	MCY	2615	NDY	2691	PLZ	2946	RGZ	2169	SDX	2852
KJY	2680	MCZ	2755	NDZ	2391	PMX	2864	RHY	2360	SDY	2493
KJZ	2258	MDX	2705	NGZ	2282	PMZ	2272	RHZ	2265	SDZ	2174
KKK	2751	MDY	2726	NHY	2489	PJX	2830	RIX	2845	SEX	2540
KKY	2372	MDZ	2151	NHZ	2920	PJZ	2137	RIZ	2253	SEY	2631
KKZ	2238	MEX	2727	NIZ	2189	PKX	2435	RJX	2736	SEZ	2135
KLY	2665	MEY	2783	NKX	2871	PKY	2478	RJY	2442	SFX	2701
KLZ	2258	MGX	2868	NKY	2566	PKZ	2414	RKX	2552	SFY	2675
KMX	2470	MGY	2388	NKZ	2194	PLX	2563	RKY	2476	SFZ	2254
KMY	2372	MGY	2388	NLX	2792	PMY	2947	RKZ	2274	SGX	2703
KMZ	2324	MHY	2450	NMY	2347	PMZ	2112	RLX	2749	SGY	2559
KNX	2623	MHZ	2309	NMZ	2217	PNY	2602	RLY	2709	SGZ	2296
KNY	2532	MIX	2775	NNX	2829	PNZ	2177	RLZ	2164	SHX	2569
KNZ	2278	MIY	2837	NNY	2862	POX	2803	RMX	2626	SHY	2494
KOZ	2628	MIZ	2252	NNZ	2546	POY	2654	RMZ	2339	SHZ	2160
KPX	2550	MJZ	2268	NOY	2635	POZ	2938	RNX	2567	SIX	2548
KPY	2639	MKX	2351	NPZ	2432	PPX	2956	RNY	2593	SIY	2620
KPZ	2403	MKY	2364	NRX	2621	PPZ	2972	RNZ	2161	SIZ	2261
KQZ	2674	MKZ	2181	NRY	2393	PQY	2688	ROX	2684	SJX	2619
KRX	2389	MLX	2667	NRZ	2095	PQZ	2200	ROY	2672	SJY	2556
KRZ	2335	MLY	2484	NSX	2800	PRX	2408	ROZ	2208	SJZ	2332
KSX	2527	MMX	2488	NSY	2625	PRY	2510	RPX	2683	SKX	2477
KSY	2468	MMY	2722	NSZ	2390	PRZ	2640	RPY	2636	SKY	2379
KSZ	2186	MMZ	2196	NTX	2895	PSX	2434	RPZ	2279	SKZ	2280
KTX	2589	MNX	2600	NTY	2713	PSY	2353	RQX	2843	SLX	2536
KTY	2534	MNY	2611	NTZ	2185	PSZ	2315	RQY	2966	SLY	2517
KTZ	2218	MNZ	2317	NUX	2681	PTX	2773	RQZ	2220	SLZ	2557
KUX	2741	MOX	2719	NUY	2924	PTZ	2152	RRX	2511	SMX	2560
KUY	2744	MOY	2691	NVZ	2246	PUY	2953	RRY	2460	SMY	2446
KUZ	2799	MOZ	2693	NXZ	2940	PUZ	2084	RRZ	2649	SMZ	2237
KVY	2624	MPY	2694	OBY	2610	PVZ	2165	RSX	2594	SNX	2417
KVZ	2383	MPZ	2348	ODZ	2808	PXZ	2206	RSY	2338	SNY	2356
KWX	2881	MQX	2844	OGX	2797	PYX	2644	RSZ	2244	SNZ	2275
KWY	2949	MQY	2908	OGY	2815	PVY	2769	RTY	2767	SOX	2655
KYX	2906	MRX	2590	OKZ	2706	PVZ	2689	RTZ	2429	SOY	2570
KYZ	2055	MRY	2816	OMX	2779	QGZ	2035	RUX	2790	SOZ	2235
LAY	2354	MWY	2920	ORY	2656	QRZ	2190	RUY	2872	SPX	2528
LAZ	2323	MWZ	2921	PAX	2596	RAX	2607	RVX	2466	SPY	2438
LBZ	2250	MXX	2951	PAX	2223	RAY	2412	RVY	2485	SPZ	2301
LDY	2835	MXY	2919	PBX	2613	RAZ	2294	RVZ	2806	SQX	2646
LHX	2795	MXZ	2925	PBY	2513	RBZ	2336	RWX	2464	SQY	2715
LKX	2846	MYX	2951	PCX	2793	RBZ	2195	RWY	2967	SQZ	2249



SRX	2539	UDX	2980	VRZ	2421
SRY	2465	UEX	2970	VSY	2637
SRZ	2221	UGZ	2079	VSZ	2960
SSX	2533	UKX	2952	VTZ	2233
SSY	2377	UKY	2927	VUY	2385
SSZ	2318	UKZ	2312	VUZ	2248
STY	2499	UMX	2976	VYY	2695
STZ	2263	UMZ	2369	WAX	2553
SUX	2601	UPZ	2597	WAZ	2215
SUY	2696	URY	2340	WCX	2972
SUZ	2529	URZ	2182	WIZ	2260
SVX	2401	USZ	2319	WMX	2984
SVY	2350	UZX	2955	WVZ	2983
SVZ	2325	UZY	2954	WXY	2942
SWX	2633	VAZ	2264	WYZ	2901
SWY	2632	VBX	2515	XDX	2977
SWZ	2721	VBZ	2842	XKZ	2111
SXX	2759	VCX	2857	XLZ	2344
SXY	2652	VCZ	2085	XPX	2979
SXZ	2723	VDX	2375	XQX	2876
SYX	2737	VDZ	2100	XXZ	2521
SYZ	2798	VEX	2449	XYZ	2099
SZY	2176	VFX	2928	YAX	2518
SZX	2836	VFY	2929	YBZ	2247
SZY	2821	VFZ	2930	YEX	2981
TAX	2676	VGX	2525	YGZ	2900
TAY	2801	VGZ	2172	YKX	2975
TAZ	2841	VHZ	2971	YKY	2874
TBX	2890	VIX	2884	YKZ	2436
TCX	2887	VIY	2931	YLZ	2308
TFX	2875	VIZ	2298	YNY	2720
THY	2724	VJX	2543	YNZ	2407
THZ	2804	VJY	2497	YYX	2985
TIX	2941	VJZ	2166	ZAZ	2440
TIZ	2902	VKX	2831	ZBX	2394
TMZ	2267	VKZ	2363	ZRX	2718
TNY	2962	VLX	2912	ZUZ	2777
TNZ	2297	VLY	2932	ZYX	2833
TOX	2913	VLZ	2444	ZZZ	2162
TOY	2838	VMX	2780		
TOZ	2859	VMY	2933		
TPX	2716	VMZ	2359		
TQX	2849	VNX	2406		
TRX	2805	VNY	2352		
TRY	2461	VNZ	2729		
TRZ	2605	VOY	2745		
TSY	2839	VOZ	2314		
TTY	2945	VPY	2950		
TUZ	2163	VPZ	2153		
TWZ	2986	VRX	2778		
UBX	2963	VRY	2698		
UBZ	2448				

**Letter to the Editor**

From :

Sneha - Sadan B. 7,  
N. Gamadia Road,  
Bombay - 400 026,  
Tel.

To,  
The Editor,  
Ham Radio News,

Dear Sir,

I am enclosing a report of the JOTA (Jamboree On The Air) which was held on 21st and 22nd Oct. 2000.

On a special request from the "Explorer's Club" which is a Scouts and Guides Organisation I visited Dahanu, which is about 120 kms north of Bombay. Along with the help of SWLs Mrs. Phiroza Tafti, Kishore Shetty and the Scouts and Guides from Dahanu we setup a station at the Shrin Dinyar Irani Learners' Academy and operated it during both the days.

We established contacts with many JOTA stations like VU2VPQ Zarir who was operating from Godrej Scouts Pavilion from Bombay, VU2RDQ Rohit and VU2RDJ Sukanya from Mangalore, VU2IIH Dev from Bangalore, VU2BSG Karan from the Scouts and Guides National Head quarters N. Delhi.

Besides the VU2 stations we could also establish contacts with VK6SZ OM Bob near Perth, E2OAJ Om Wat in Bangkok and A47JOTA Om Hisham in Muscat.

Incidentally Phiroza is a Guider and along with Kishore, she has passed her Gr. II examination and both of them are keenly awaiting their licenses.

Phiroza wants to set up a station in Dahanu to teach HAM Radio to the Scouts, Guides and other students in that Town.

Thanking You,

73's

Yours Sincerely,

Sudhir Shah

(VU2SVS)



From :  
Deepak<djb@jla.vsnl.net.in>

To,  
saadngi@vsnl.com <saadngi@vsnl.com>

Dear Sir,

Enjoyed reading the Oct-Dec 2000 issue. my membership number is C1766 and would request a correction in my callsign, which is VU3DJI.

Of late many of ham members in our area have been troubled by illegal presence of cordless phone QRM on the VHF ham band. I am sure this a nationwide problem faced by others also. These are full duplex devices, mostly of chinese make, and the user base is generally marked by the presence of a three pronged antenna on the rooftop and a coax running down, at least 10 frequencies have been monitored to be used by these phones in the 144-146MHz band at my location, and more are being taken up. detailed information has been given to the nearby monitoring organisation and action is awaited. Collective reaction to this type of illegal and harmful activity is warranted by the ham community, otherwise all repeater and call channels may be rendered useless.

Thanking You,  
deepak j bhatti (VU3DJI)  
ludhiana

Dear Sir,

First of all let me express my happiness in becoming a life member of our National Society, the A.R.S.I. also, like what the president of RSGB has said, personally feel that every one should support the National Society by becoming a member and should look forward to, may I add, what they can do for the society rather than what society can do for them. Simply because if we do something positive to help the National Society, eventually, it will be us, the Indian Radio Amateurs, who will be benefitted.

I have received the Oct-Dec 2K and Jul-Sept. 2K issues of HAM RADIO NEWS just a few days back. I am thrilled to know that our society (A.R.S.I.) does so many jobs for us round the year and really liked all its contents. I have gone through these two issues over and over and I convey my deepest respect for silent key VU2GX. Late Girimaji, what an amateur he had been! Also, my deepest regards to other silent key too. As our honourable president VU2SDN has sought opinions on utilisation of recently released call

sign blocks, may I suggest that we should utilise the new call sign blocks like 8TA for a change. We, already have VU2 or VU3 which starts with Alphabet but now we could have a call sign which start with a Numeric no !

It's really nice and encouraging to know that our society was represented in the Triennial conference of IARU Region 3 which was held in Austration in the month of August, 2000.

My wholehearted congratulations to VU2UR ARASU for being elected unopposed a Intruder Watch Co-Ordinator in the I.A.R.U. Conference.

May I take this opportunity to wish HAM RADIO 2000, the MILLENIUM HAM MEET a grand success and also wish all the amateurs accross our country a very happy and prosperous New Year 2001 !

73, Arya Ghosh  
(ARYA GHOSH)  
VU2GKB  
Membership No.  
L-0182(N)

Dear Saad Ali,

Please publish the following new in the next issue of HAM RADIO NEW - 73. Thanking you

HAM XPO 2000

Adur Amateur Radio Club conducted HAM XPO 2000 and HAM AWARENESS DAY on 3rd December 2000 at Govt. U.P. School, Adur. The function was inaugurated by Dr. Keshav Mohan Principal of College of Applied Science, Adur. The club station VU2LFB was inaugurated by Dr. Eugene Nazreth, VU2EGN. The Souvenir was released by Om Vinay Kiran, VU30JA of Hyderabad by handing a copy to Om Sreemurugan VU3KBU. About three hundred hams from all over South India and ten clubs participated in the function. The clubs displayed a number of home brew projects. Om Vinay Kiran Exhibited five channel 2 metre transceiver and a VFO for 3 to 30 Mhz. In the afternoon about hundred SWL's attended the lecture cum demonstration on HAM RADIO. The colourful Souvenir contains a number of articles for ham and can be had by sending Rs. 30 by MO to L.V. Sharma, Mukaletu Matom, Adur 691523.



## FOX HUNT THAT WORKED IN A REAL SITUATION

### ANOTHER FEATHER IN THE CAP OF M.A.R.C. MANGALORE

By : K. Ramachandra Bhat : VU2RCT

I was sitting in my office and attending to my usual work when OM Srikanth VU2SBJ called me on LL and told me that there was a pirate station putting out a strong signal bang on our VHF calling frequency. It was on 23rd Oct 2000 at around 11:00 A.M. I was out of station for couple of days and was unaware of the latest activities on the band. I was taken aback, called up OM Hegde VU2HEG for further update. He confirmed the news and added more information that it was a telephone duplex QSO. He also said that the signals reached even Kasargod other than up north till Manipal. We opined that it was a cordless phone capable of putting out a strong RF. I switched on my VHF and surprised to hear a chat of 59+ signal strength. The QSO's were on Christian Konkani language. Interestingly, during their QSO, whatever we transmitted on the same frequency, were never heard by them. Apparently, the station appeared to be harmless and not really knowing that they interfering with us and that their transmission was totally illegal. It was a typical case that could well be handled diplomatically once traced.

The menace went on and on unabatedly... Interfering on our bands that too on our calling frequency was a serious matter in the larger interest of amateur radio. Me and Hegde got in regular touch with each other. Hegde came forward and offered to keep a close watch so as to understand and pick up any clue from the conversation that went on the frequency. Even after 3 days, in spite of the patient listening to the regular QSO's on the air, no real useful information like their name, telephone number etc., could be picked up. On the 4th day in the night around 8.30 P.M. when I switched on the radio I heard the same strong but a continuous carrier without a sensible modulation. I rang up Hegde. He confirmed that it was going on continuously for the past 45 minutes. We decided to go on a FOX HUNTING. When I rushed and reached Hegde's QTH in Surathkal which took less than 50% of the time than usual, he had kept his 3 element home brewed Yagi, the Rig with a huge battery backup and other necessary equipments ready. But to our bad luck, by then the transmission had stopped. Yet we started. When we covered hardly a distance of about a km, signals came up again, this time for a brief period. We

took one bearing. We started moving on that direction. Reached another spot which we thought was right. After waiting patiently in the dark for about 30 minutes another signal came, a brief one again. We took another bearing. Everywhere the signal was pretty strong. We started moving further... this time towards the air port ... covered about 18-20 Kms. There was no further signal to take any more bearings. It was already past 11.00 in the night. Disappointed and got back home.

Hegde never gave up. He continued to keep his ears open. Picked up more and more useful information. His perseverance and the presence of mind had been excellent... he even recorded some of the QSO's. He made several calls and informed the concerned authorities in the depts. of Telephones, Monitoring station etc. But the response was nothing against the expected.. It had been highly discouraging. When our boys any where in Mangalore could copy the signal on rubber ducky, Monitoring Station could never hear any such signal in the first place !

Even a strong twenty five watts signal provided by us at their request for testing purposes within normal VHF range could not be heard at their end. The officials from both depts suggested that a written complaint be lodged for any action to be initiated ! It seems they are not empowered to do anything beyond that. Poor Hegde has to scratch his head and pull out whatever was remaining on it !

On 28th Saturday, morning at about 11.30 A.M. all of us were in Deepavali holiday mood. The usual blasting 59+ signal came again. Called up Hegde... whatever information he had picked up till then were not adequate to pin point the station. We decided to go on a intensive hunt this time. Took the Rig plus the Yagi and first went to an area which Hegde had broadly suspected as the most likely location. But no luck... *nothing could be located.* We went to a Post office which was situated in the premises of a well known church and tried to gather some information on the basis of whatever little we knew about the persons and their profession... Actually we knew, we were asking for too much when we were not knowing their names even. Did not know what to do further. We could try finding the direction, but there were hardly any transmission of signals at that moment.

While sitting inside the car in a quiet place, Hegde took out his tiny cassette player using which he had recorded some part of the QSO. While carefully listening. We found that it has recorded the dialing that was on Pulse Mode Though decoding the number of



pulses corresponding to each number with bare ears was humanly impossible, Hegde tried his best.... But not fully successful.

We decided to go into some hi-tech mode. Went to my home QTH and in my Multimedia PC, we recorded the whole analog QSO containing the dialing pulses that Hegde had recorded earlier. There is a software in my PC capable of visualising/processing the audio as in a spectrum analyser. When the spectrum was enlarged on a larger time scale and then the dialing was replayed, we could count the no. of peaks corresponding to each pulse on a still PC screen. The 4 distinct peaks were of the digit 4, a space, again 8 distinct peaks of digit 8 and so on. We decoded the six digit number ! It wasn't a very simple affair because some small distorted signals appeared like pulse peaks and were slightly misleading ! We rang up the telephone directory enquiry for getting the address pertaining to that number. We had to bluff few things as they generally give the numbers against any subscriber's name and not the other way ! The address appeared to tally with most of the general clues regarding person and place we had gathered from signals monitored / recorded earlier.

Started the car and went straight to the spot. We were delighted to get the very sight of the external antenna first which was put up at a height of about 20 feet on the roof top. The location was quite at an elevated place and was indeed a very favourable spot for any VHF working. Explained the whole situation to them. As we had rightly guessed, they never knew what was happening and that it was illegal. They were confused, nervous to some extent but were never offensive. More than anything they appeared to be feeling miserable for all of us having heard their QSO's that went on for nearly a week. We asked them not to carry on with it anymore. We made it clear to them that at any time we are capable of locating any such transmission. Before walking out we did not forget to have a look at the gadget. The main black box looked typically like our Amateur VHF base equipment, and the hand set looked exactly like a fancy cell phone !

We both got back home with a big sigh of relief. Our favourite calling frequency has been captured back from the intruders and it is now for us....only for us !

My heartfelt appreciations to OM Hegde for the true spirit that he had exhibited for the cause of Amateur radio and for the active participation in protecting its interests. No signal handed work would have proved this kind of success

## **MINUTES OF THE ANNUAL GENERAL MEETING HELD ON 23RD DEC. 2000 AT HYDERABAD**

The AGM of the Amateur Radio Society was held at 16.30 hrs on the 23rd December 2000 at the venue of Ham Radio 2000 at Hyderabad. Forty members were present. The President VU2SDN chaired the meeting.

A minutes silence was observed in memory of all those members that have gone silent key notably VU2GX, a veteran and very active till his last days.

The Secretary announced that a "Life Time Achievement Award" was being bestowed posthumously on Late VU2GV Sulu for his service and dedication to the hobby for almost 40 years. The Ham community would be failing if this illustrious Ham was not honoured. A silver salver was presented to his xyl VU2ANU, Anu by VU2AJ Dutt a Trustee of the ARSI.

The minutes of the last AGM held at Mumbai on the 19th March 2K was read and passed without any discussion.

Next was taken up the balance sheet for the year 1999-2000. The balance sheet shows a loss though the fees collection has been the same figure but the Ham Radio News suffered due to lack of advertisements. After a couple of clarifications the balance sheet was passed by a voice vote.

The President VU2SDN presented his report on the working of the society for the year 1999-2000. He stressed that the members of the society are not taking interest in the affairs of the society, even the members of the GC are not exerting themselves to enroll members, procure ads. etc. The fees are not being paid regularly by the members with the result that every year a number of members automatically are removed from the membership. Also he highlighted the advantage members are taking of the society to procure cheap equipment and get their licences/renewal etc. Once this has been achieved they forget that they are members of the society. Also vested interests are blocking the import of cheap equipment by the society for its members. They have succeeded this year but alternative avenues will be probed.

The President also stressed that the society is in a very precarious phase since no accommodation is available and the society may have to shift from the premises it is occupying at the moment courtesy VU2ST. (See report elsewhere)



The appointment of QSL Managers was taken next. Since there are no volunteers the Chennai Buro will continue to be managed by VU2VIT and the Buro at Mumbai will continue to be handled by the Secretary. However there may be delays in handling the QSL cards since the Secretary has many other duties to perform and cannot handle all single handed.

## **HAM RADIO 2000 - THE MILLENIUM MEET - A REPORT**

By : Adolf B. Shepherd, VU2AF

The Millenium meet "HAM RADIO 200" was held at Hyderabad from the 22nd - 24th Dec. 2K. This was preceded by a Homebrew workshop on the 20th/21st Dec. 2K. At the workshop were old timers VU2NR Raju who displayed his futuristic NR80 which will be officially released on his 80th Birthday. Also was another veteran VU2RM Rao an ardent hambrewer. The delegates who were registered for the Millenium meet could attend this workshop with no extra fee. There were 15 delegates who took part in this two day hambrew workshop and were guided by these two Hams in their own babies the NR80 and the RM 96.

December 22nd was the first day of the meet. Registrations stated at 11am. The delegates who could not sent in their registrations due to the postal strike were in good numbers and they did register on the spot. By 1pm lunch there were 250 plus registrations. In the meantime the delegates were busy viewing a lot of homebrew stuff that was brought in for either a demo or for the stalls that were put up in the exhibition hall and outstanding among the stalls, was the one from ISRO-Bangalore.

The Inaugural Session started at 3pm in the large open air shamiana put up against the backdrop of a huge logo of "ONE WORLD ONE LANGUAGE". The inaugural function was presided by VU2AJ the oldest ham present at the meet. The dais was shared with senior hams like VU2VA Dean, VU2MY Suri and VU2SDN Sahar. The Convener of the meet was VU2JH Jagdish and the Compare was myself. After the formal intro of all the personalities, each one was presented with flowers. An Invocation Prayer was recited by Master Prithvi. The Convener was requested to welcome the delegates. In his welcome speech the convener stressed this meet was meant to honor the veteran Hams who have dedicated themselves to the hobby and it was the last meet of the millennium. VU2ST Saad Ali was named the "Ham of the Millenium" and escorted to the dais to take his honorable place

among the veterans.

Saad Ali was garlanded by VU2SDN. A shawl was presented to him VU2VA and the chief guest VU2AJ presented him with a memento. Delegates who wished to congratulate Saad Ali came to the dais and presented him with a sprig of flowers as a token of gratitude and appreciation. It was very touching and he was overwhelmed with the show of affection and gratitude by the delegates. The chief guest was requested to address the delegates and inaugurate the meet with the release of the souvenir. The chief guest stressed the need of the hour was unity among the community and also the need to help the budding hams to get on the air. For this he made a donation of Rs. 10K to the ARSI so as to set up a fund for the needy hams. (See speech elsewhere). The souvenir was released and the meet inaugurated by VU2AJ.

The General Secretary of the ARSI announced that VU2ST is being given the "Life Time Achievement Award" for his 40 odd years of selfless service to the hobby. This is not only on behalf of the members of the ARSI but by the whole Ham community. The youngest Ham present at the meet VU3HQL Master Anand Pandey who is just 16 years old presented a Silver Salver. This is from the Young to the Old - **KAL AAJ AUR KAL**. All the delegates present gave Saad Ali a standing ovation. The President of the ARSI - VU2SDN was requested to release a small booklet "ABHINANDAN" 'A Tribute to Saad Ali VU2ST' compiled by VU2AF Adolf, for the occasion. The booklet comprised of congratulatory messages/thoughts by Hams who were very well known or have been associated with Saad Ali over the years.

The chief guest inaugurated the exhibition of stall and hambrew equipment and the delegates broke off for tea. After tea the delegates were treated to some good tricks of the hands or magic as they call it and also Hypnotism. The crowd enjoyed it.

The second day started with a topic "Future of Ham Radio In India" and the speakers were VU2SDN, VU2MY, VU2FI and VU2AMJ. Various opinions were expressed as to the future of this hobby toping the list was Internet. Was Internet a threat to the hobby or a boon. The integration of Ham Radio with Internet was suggested and this was a very hot topic discussed in the International Forum as well. The ways to increase and keep the interest alive in the new generation was the main issue and how to do it was a topic to be debated and should be given the highest priority. The greatest hurdle is in the issue of the licences by the WPC. The



## Ham Radio News

big delay in the issue of the licences caused a dissatisfaction and the interest was lost in the first instance. Next the high cost of equipment and nonavailability of indigenous stuff was a hurdle which will not be solved in the near future. The only plus factor is the availability of different types of tried out homebrew designs that the young and old as well, are taking up to get on the air.

Tea was taken and the session on home brewing started with VU2NR, VU2RM and VU2JH on the panel. Since the homebrew workshop was already conducted nothing new was said except that in March 2001 the NR 80 will be launched to coincide with Raju's birthday. Wish him many more years in the hobby and may he live to launch the NR 100.

Lunch was at 1.30 PM and after lunch a very interesting top was discussed. On the panel were VU2NUD Nagesh from ISRO, Bangalore, VU2RMS Ramesh also from Bangalore, and VU2RM Rao, a very keen satellite fan. Ramesh did have the children of his school club station VU3LLE talk to the astronauts on board the space shuttle. The talk was very interesting and for the first time the talk was of VU Hams building and launching our very own satellite. A small beginning indeed and the group was discussing the parameters and the likelihood of a launch from our own resources or get it launched by some other agency. Nagesh gave an insight into what was being planned. It so happened that VU3GTF was monitoring the satellite frequency and at that time VU2GUR Guru, from Bangalore was having a chat on the sat with some other ham and the crowd got a listening to the conversation. Since then there has been regular meetings in Bangalore of a core group who are planning the whole VU-Bird and the ground realities. There is a web site on the net on the topic of VU-sat. The discussion was very lively with a lot of question-answers. A lot many doubts and FAQs were cleared by the experts on the dais.

The ARSI AGM took place after the tea break. Late VU2GV was honoured posthumously with the "Life Time Achievement Award" and this was presented to his xyl VU2ANU Anu who came down from Botswana to receive the award. (See minutes printed elsewhere).

A very interesting slide show was given by VU3GTS Sarang who lives in rural area with no modern amenities at all. It was a very deep study of the way of life and what Ham Radio can do for the uplift of the rural areas. It was a very enjoyable with the commentary of Sarang and his sarcastic comments on life in urban

areas. A lot to learn from this young ham.

The third day started with two short talks. One was on SWLing by VU3DJQ Raman from Delhi who has himself won many an award from SWLing and Hamming too. The second was by VU2UKR Sunil (UK) on SSTV which is fast catching up again. A couple of Ham did work SSTV many years ago but this technique is simpler since you do not need complicated and costly gear. Very simple inter connecting between you computer and your TR will do the job. A couple of Hams are using this method and doing good as well.

Tea was taken and the last session before the Valedictory and Prize distribution was Hamfest/Conventions in India. The main speakers were VU2GJR Gaja, VU2CLM Chelam, VU2MY Suri, VU2DPD Dipu and myself. The main thrust was the way Hamfests should be run and the methods to be adapted for greater participation of Hams from all around the country. Funds are not easy to come by these days and the methods to collect funds was explained by different speakers. The next Hamfest for the year 2002 is scheduled late this year at Nagpur. Hope there is going to be greater participation and greater numbers will attend.

The delegates assembled again at 5 pm for the last session of this meet. VU2ST was the chief guest and started off with VU2AJ being named the "Oldest Ham of the Meet". A shawl, a memento and certificate was presented to him by the chief guest. There was also the "Youngest Ham of the Meet" and this was VU3HQL Anand Pandey the harmonic of VU2HCL. He is just 16 years. A shawl, a memento and a certificate was presented to him by the chief guest. The chief guest had to leave due to ill health and the function continued with VU2AJ distributing Golden and Silver award certificates to Ham who have completed 50 years and 25 years in the hobby. The only Golden awardee was VU2VA Dean. There also a Most Active Ham certificate given to VU2RM Rao.

After the usual speeches and cheering the meet came to an end to the tune of "Auld Lang Syne" and all the delegates broke off for cocktails and a wonderful vegetarian dinner.

## Fees For 2000-2001

**Many members have not paid their fees for the year 2000-2001. Kindly pay before 31st March, 2001 with penalty. Fees for 2000-2002 falls due on 1st April 2001 Pay early to avoid penalty**



Dear OM,

## World Amateur Radio Day 18 April 2001

Enclosed is a message from Fred Johnson ZL2AMJ, President of IARU Reg. III.

The whole world is rushing to the aid of earthquake affected in Gujarat. The role of Amateur Radio has also been highlighted in Amateur circles every where.

At this juncture it is a great opportunity for Indian Hams to promote Amateur Radio in India.

It is suggested that we endeavour to make the occasion with events all over India. These could be in the shape of :-

1. Demonstration in as many schools and colleges as possible.
2. Talks on the importance of A.R. with VIP invitees.
3. Seminars relating to topics concerning Amateur Radio mainly concerning Disaster Relief.
4. Exhibition/film shows.

Such large scale activity may not be possible except in large cities like Bombay, Bangalore etc. However some activities on a smaller scale would be possible in most of the other cities, towns & villages.

Let us all start urgent preparations for the world Amateur Radio Day.

Any assistance that we can give will be freely given. Your suggestions for the Day will be most welcome.

73

Sd'

Sahrudin VU2SDN  
President

Message from Fred Johnson ZL2AMJ  
President of IARU Reg. III.  
WORLD AMATEUR RADIO DAY  
18 April 2001

April 18th is designated World Amateur Radio Day. The IARU Administrative Council has announced the theme for World Amateur Radio Day 2001: "Providing Disaster Communication: Amateur Radio in the 21st Century." This event and this theme have been publicised in various news releases. It may be the time for you and I too think about how you and I can

each properly celebrate such a special Day and how our local club can too.

The current news reports of the great earthquake in the Indian state of Gujarat are grim reminders to all of us of our need for community and personal preparedness for the unexpected. Messages received here show the very commendable work and the value of Amateur Radio and radio amateurs serving that community at this time. Other similar disastrous events are happening elsewhere on this planet and are regular and unfortunate features of our existence.

Not one of us is safe from calamity. Perhaps we should consider how adequate numbers of radio amateurs are trained and provided to meet the task to provide sudden and unexpected emergency communications in our communities? Perhaps we should be promoting Amateur Radio with much more vigour to meet the skilled operator needs of disaster communications in the 21st century."

Key words in the theme for World Amateur Radio Day 2001 are "Providing" and "disaster communications". A fundamental essential is for adequate number of trained people to do the work at such time of important communications need. We must be assured of a continuing flow of newcomers into Amateur Radio to ensure that qualified people are there and trained and fitted out with the right resources. To provide a reserve pool for adequate communications services, interested and enthusiastic persons must be attracted into Amateur Radio.

## SILENT KEYS

- ☞ VU2TH - Guhan expired on Saturday 4th November 2000 at the ripe age of 80. A electrical Engineer by Profession & a keen homebrewer. Leaves behind his wife Moni and YL harmonic Meena. May his soul rest in peace.
- ☞ VU2GPM - Guru from Mangalore.
- ☞ VU2SA Anil Sen. A Tribute By VU2AJ Dutt:  
I am extremely sorry to hear about VU2SA Anil becoming a silent key on 3rd March 2001. He worked with me for more than two decades in different capacities in my morning QTH, OCS which is now VSNL. A very keen homebrewer and an excellent Ham. He helped many new comers in the field. The ham fraternity has lost a very able and friendly member. On behalf of our Ham Community and myself I convey our heartfelt condolences to the bereaved family. MAY HIS SOUL REST IN PEACE.



**HAM PROFILE - ARASU VU2UR**

**VU2UR IS THE M. S. CO-ORDINATOR OF ARSI, REPRESENTING IARU REGION III**



Born in Nov 1939 at Mysore, and brought up with education at Banumaih's High School and Yuvaraja's College. Moved out for a job in the Western Railway and then joined Research Design and

Standards Organisation of the Ministry of Railways at Lucknow. Worked in the Track Research and Bridges and Structures Divisions and the last decade of his service was in the Inspections of fabricated steel girder bridge component. Retired in November 1997 from Lucknow.

Started as an SWL listening to Broadcasting Stations on SW and MW bands only. Learnt telegraphy to listen to the communications between ships to shore etc. Did extensive SWL work in Broadcast Listening and achieved 100 countries verified Award from Popular Electronics of USA. In the amateur radio area, is an avid SWL even now and listens to every thing that comes in the 150 to 30,000 khs range. Have held SWL calls VU0016 (of ARSI) VU2PE1D (of Popular Electronics) and VU-1004/RB (of Radio Budapest). Have over 100 countries confirmed on amateur bands, standard RF and Time Station, PTP stations, etc. The most interesting among the QSLs received were from JY1 and JY2 of Jordan. Have the following SWL Awards YO-DX-C, YO-45-P, YO-30-YR, YO-25-M, Radio Bucharest Diploma, XAC-A, KIMCHI Award, Electronics Illustrated's 10 Countries, 25 UN Countries, 50 Countries, 6 Continents AFARN-75th Anniversary Award from VI75RAAF, Propagation Research Contest - CPR of International Amateur Radio Club for the years 1970, 71, 72 and 73. CQ-M-1969, SP DX Contest-1975, VU2-4S7 DX Contests 1965, 66 and 67.

As VU2UR hold many awards in amateur radio contest like BERU-CC, SAC Helvatia, CQWW, CQAA, OKDXC, SPDXC, YODXC, LZDXC, PACC, WAG, WAP, Holyland Contest, WTC Contest of Brazil, CPR Contest, Keymans club of Japan, 59 award, SEANET Contest, CQ-M and other. Among the achievement awards CQ-M-1981 Silver Medal, 50th Anniversary Bronze Medal from Holyland, Holyland Award No. 190, RAEM, Nicolas Copernicus Award, Fort Wayne Radio Club Award, which are the only ones to India.

Have been working as a Monitoring Systems Coordinator of ARSI for over 6 years and now I have been placed with the responsibilities of the Monitoring Systems Co-ordinator of International Amateur Radio Union-Region 3 since May 1999.

Behind the successes of this OM, the sacrifices and patience in the XYL Anuradha is invaluable for encouragement. I owe all the credits to her.

### **GUJARAT EARTHQUAKE DISASTER COMMUNICATION REPORT**

It was normal day like any other. HAMS of Mumbai got together as usual for the "Early Birds Net" at 7:00 am on VHF. 26th January 2001 being the republic day and a holiday many hams decided to stay on the frequency after the net for a ragchew.

They were on VHF frequency on Ham Band which is used for local communication, chatting away when the disaster struck at 8:45 am. Immediately they turned on their HF sets on. Reports of tremors started coming in from lot of places in India. Hams all over India started describing their experience.

By now it was clear that something terrible has happened and some place in India was targeted by nature. The Mumbai Amateur Radio Society's Disaster Communication Team, which is trained for such kind of Calamity decided to mobilize. They were now waiting for confirmation of the Epicenter of the earthquake. By 12:00 Noon the television announced that the Bhuj was the target.

The Team prepared their gear which consisted of 3 H.F. Sets (Yesu 747, two(2) - Yesu 757 GX) Three (3) VHF Base Stations (Kenwood 733A, Icom & Alinco) Nine (9) Handheld VHF Sets. Three (3) sets of HF antennae (80/40/20/15 meters, made out of thin Telephone/Teflon wires) with RG58 & RG188 Teflon Co-Ax. One (1) HF Vertical for all bands was also carried for mobile operations. Three (3) Daiwa SWR meters (HF/VHF) were also carried. For VHF Three (3) - 5/8 antennae and to Two (2) mobile antennae were also taken. Three (3) Switch Mode Power Supplies were also carried just incase we can manage to get electricity.

Other necessary things such as tool kits, DC soldering Irons, Survival Kits etc were also carried. In short all the material required to put up 3 complete stations with HF & VHF capability was taken. Each Set was designed (Compact & Lightweight) in such a manner that a single person carry a complete station in his backpack and walk for kilometers if required.



The team consisting of 9 members (Nilesh Rathod - VU2NLF, Sandesh Kamat - VU2SXF, Mukesh Jaitley - VU2UGJ, Sandip Adiwarekar - VU2UGO, P. V. Jaiprakash - VU2JPN, Pankaj Pasad - VU2RIO, Huzefa Merchant - VU2HIT, Mehul Chovatia - VU3MBF and Kunal Mashru - VU3KUN) got together at Mumbai Central Station at 16:00 hours. The Station Master immediately arranged for the seats for the teams after knowing the cause of their visit. By 17:10 hours the team was on its way.

On their way to Ahmedabad the team met with the Volunteers of "Kutch Yuvak Sangh" who were also heading for the BHUJ to offer their service. Plans were discussed with them, they assured our team that they will organise the necessary Car Batteries for Ham Radio Operations once we reach Bhuj. We in return assured them the connectivity with Mumbai once we had the power source.

When the train reached Baroda, They were joined by Kailash - VU2KIZ, The Team reached Ahmedabad at 01:40 hours, where they were received by their counterpart (Prem - VU2XMX & Pravin - VU2CPV) who's co-ordination was par excellence. They immediately rushed to meet the Collector at Gandhinagar. After reaching the Collector's office the team met the Govt. officials, Plans were discussed, Strategies were worked out. It was decided that the team will head for BHUJ and their counter parts (Prem, Pravin, Kailash and Kunal) will setup the station in Mantralaya, Gandhinagar Govt. Headquarters. Necessary documents were issued and two jeeps were provided by the Gujrat Government. The Mumbai Team headed straight to the Disaster Area.

The team made their first HF Contact using the mobile vertical Antenna with Adolf Shepherd-VU2AF, in Mumbai at 11:30 hours when they stopped for a cup of tea, Informing that they were now only 100Km from the disaster location. The drive to Bhuj was shocking as they passed all the villages which were totally devastated, People were migrating by thousand, it reminded of the pictures of India-Pakistan Partition. People were leaving sitting on the roof top of all the possible buses, trucks and other vehicles, it was a mass exodus, people were moving out while the team was moving in.

On reaching BHUJ they met the Collector and Jagdish Pandya-VU2JGI who was working in official capacity with the government and discussed their plan of Action. Three teams were formed. One station was immediately set up at BHUJ, Sandesh, Huzefa and

Mehul stayed back to man that station. The second consists of Nilesh, Mukesh and Sandeep head for Bachau and the third team of Pankaj & Jaiprakash headed for Anjar.

They also met the Volunteers of "Kutch Yuvak Sangh" who arranged 6 nos. 65 Amps Batteries for the teams as promised. The Bhuj Team co-ordinated with the Kutch Yuvak Sangh, which surveyed the area and was passing vital information about the victims of the disaster.

Upon reaching Anjar and Bachau, the teams met the local officials Mr. Atanu Chakraborty-IAS Officer incharge in Bachau and Mr. Sanjay Gupta-IAS Officer incharge in Anjar, who were more than happy to receive them in this hour of difficulty when all modes of communications had failed. Within no time stations were setup and bingo! The communication was restored. Now there was a Ham Radio link between Bhuj, Anjar, Bachau, Gandhi Nagar and rest of the World.

All three stations were put up in record time of 15 minutes flat (clock work). All the training done in the past by "Mumbai Amateur Radio Society's Simulation Exercise for Disaster Management" paid off. A clean VHF link was also set up between Anjar and Bachau. A distance of 45 Kms.

Information started flowing, Important Government messages were now being passed across the station. 100s of Bulldozer, JCBs and other earth moving equipment was ordered to remove the debris, thousands of tents were ordered to shelter for the people who has survived, 100s of tons of Rice, Flour and Water was ordered, 100s of trucks full of wood was ordered to exhume the dead bodies, the figures were shocking.

100s of Messages from the local people who were the victim of the disaster were passed to the relatives and kin via radio. Hams in Mumbai, Rajen Kavadia-VU2RIG & Minoo Contractor-VU3MHC provided communication support par excellence, At times also acted as relay station when the Teams were in skip.

Other Mumbai Hams who also joined were Nafisa Shikari-VU2NFS, Sarla Sharma-VU2SWS, Adolf Shepherd-VU2AF, Mahesh Vhatkar-VU2IIA, Jayesh Karvar-VU2ESP, Sudhir Shah-VU2SVS, Vijay Daiya-VU3ITT, Girish Sukhla-VU2LNZ, Mayur Bhatia-VU3BMW, Dhiren Bhatia-VU2DIB) copied all the messages coming from the disaster area and called the relatives of the victims on telephone informing them that "all's well" and otherwise, While the team in Gandhinagar also did the same. Dalvirbhai-VU2SL.



Joravar-VU2HBZ, Patil VU2XX, Rajan-VU3WIA, Suhas-VU2SMN performed wonderfully and were of great help. Many other stations all over India and some International stations also participated in this noble cause.

While the Teams were busy passing all this information, a Ham Radio Station was set up in Mantralaya in Mumbai which was manned by Zyros Zend-VU2ZRS and George Phillips-VU2GT. This was in order to provide vital communication link between Mr. Ashish Bhargave at Mantralaya and the Maharashtra Government official Mr. Sarangi in Bachau. Vital Information now started flowing between these two stations.

By then a Medical team from Brihan Mumbai Mahanagar Palika consisting doctors from Nair Hospital, KEM Hospital and Sion Hospital had reached Bachau to help to injured victims. Dr. Sudhir Shenoy-VU2REK, who is also a HAM was supervising from Mumbai via his Ham Radio Set. Once again a Ham Radio link was established between Dr. Sudhir Shenoy in Mumbai and his medical team in Bachau, now the medical data was being passed by the Ham radio Operators in Bachau. Required medicines and other surgical aids were ordered via Ham Radio.

At one point of time a team of Doctors was required in Anjar for some Specialized Surgical procedure, luckily such doctors were available in Bachau belonging to the team of doctors which had come from Mumbai. Dr. Om Prakash who happened to be near our station immediately volunteered for the job and rushed to Anjar with his team in an Ambulance. Thanks to our parallel VHF link between the two station, which served the occasion.

Vital Informations were received from Patil-VU3NUT and his team on VHF who were mobile and surveying all the interior villages for damages. This important data was now being passed to the NGO's and the Govt. Officials to divert the aids, which was coming to Bachau and Anjar.

Surprisingly the Bachau team passed messages for the Indian Army Personals, their homes were informed about their whereabouts, since their troops were mobilized in emergency to the Disaster Area. They would provide us with biscuits to show their appreciation. They would invite us every day for lunch and dinner to their camp, but somehow we could never leave the station unmanned.

At Bachau the team was experiencing light tremors 18

every 15 minutes, the jeep would start shaking, initially it felt strange but later we got used to it as nothing further could be damaged, it was now simply bouncing the rumble.

The teams worked everyday from 6 am to 1 am for 6 days in harsh living conditions, sleeping in the jeep in Bachau and make do tents in Anjar and Bhuj, in the extreme cold weather with very limited food supply mainly consisting of biscuits and water.

Finally the Govt. installed the Sat-Coms and V-Sats. The Mobile cellular network was also restored in Bhuj, Anjar and Bachau, also many other Hams from all over India had now reached Gujrat. The air now had a foul smell, it was obvious that the dead bodies were now decomposing. It was then decided that it was now time to head home.

While leaving Bachau we said our goodbye's to Mr. Atanu Chakraborty-IAS officer incharge of Bachau. He said "I am not at all happy about you guys leaving, but I can't stop you, I am here on Govt. Duty, But I fail to understand what motivates you guys come up here and serve with such dedication. I also don't understand why you guys call yourselves AMATEURS"

Finally The team got together at BHUJ and was flown in by the Indian Air Force to Mumbai. Hams from all over India who have participated in this Gujrat Disaster have performed wonderfully. I may have left out lots of names who provided their vital communication links. It is once again proved that Ham Radio can do wonders when it comes to Communication for Disaster Management.

It was a great experience for all of us, We got a lot of job satisfaction out of it. But again we learnt a lot, there is definitely some room for improvisation. A better co-ordination is required amongst all the hams in India.

A Centralized Plan for Disaster Management is a must, where all the hams can work in complete harmony and avoid duplication of efforts. We hams do wonderful job during car rallies where we have a (COC) control. For disaster management we should also have a similar type of plan (A server and nodes configuration.) which forms a complete network and offers optimum results.

I am quite sure that lot of hams share my views for "A Centralized Disaster Management Plan" and I sincerely hope that we can come with a concrete plan in the very near future. (Photos on back inside cover)

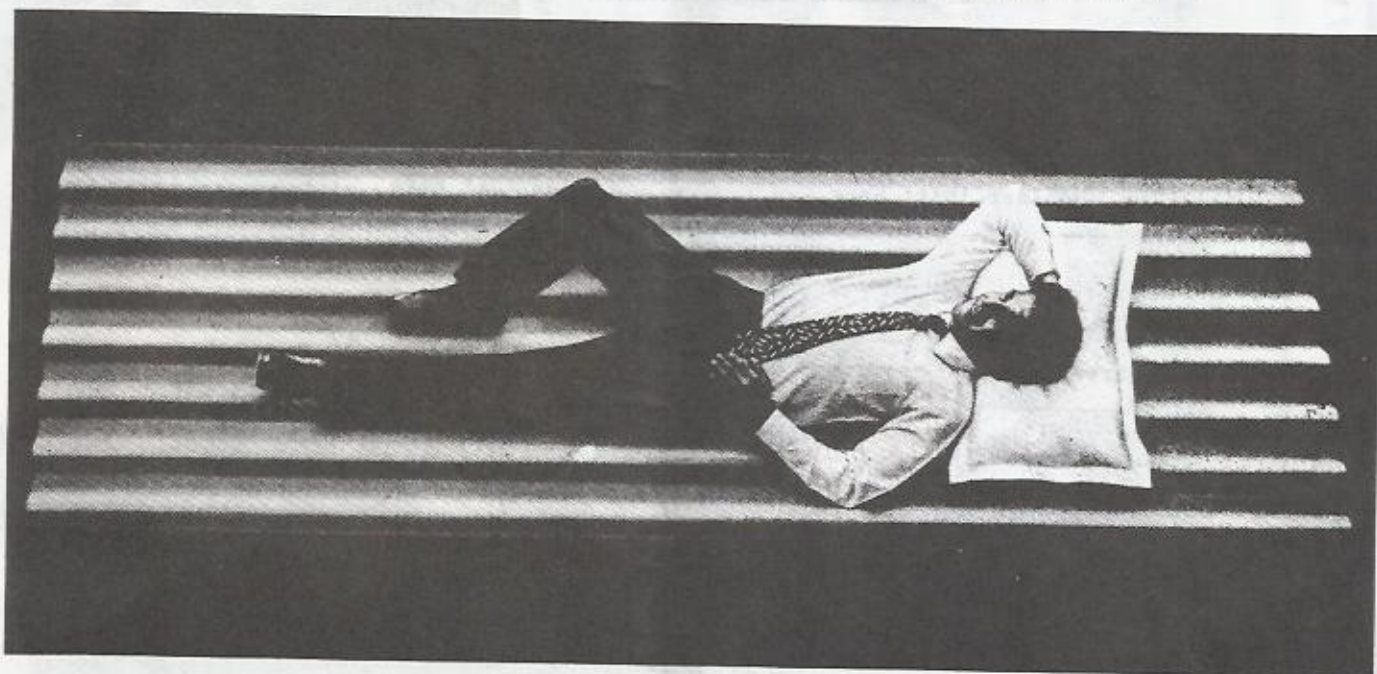
73s,

Nilesh Rathod, VU2NLF, Secretary, M.A.R.S.

E-Mail : m\_a\_r\_s@indiainfo.com



## FOR OVER 60 YEARS PEOPLE HAVE BEEN BUYING ETERNIT EVEREST ROOFING SHEETS FOR ONLY ONE REASON.



### PEACE OF MIND.

An assurance that's inherent in our quality and service. Making every rupee you spend on your roofing, well spent.

**No confusion.** At the very start the technical service team recommends the right sheet and accessories and helps in design and installation. Absolutely free.

**No running around.** Everest has the largest range of fibre cement products, for a complete roofing system. A nationwide distribution network for instant delivery. And a team of consultants for your specific design problems.

**No doubts, either.** Everest is the only name that has been proven over 60 years.

With a "no compromise" policy that begins at the R&D Centre, specially developed fibre orientation technology that ensures unmatched strength and durability and testing standards higher than even ISI.

No wonder then, people at Godrej, Bajaj Auto, Goodyear, L&T, Kinetic Honda - the list is endless - prefer Everest.

People who have enough on their minds already.



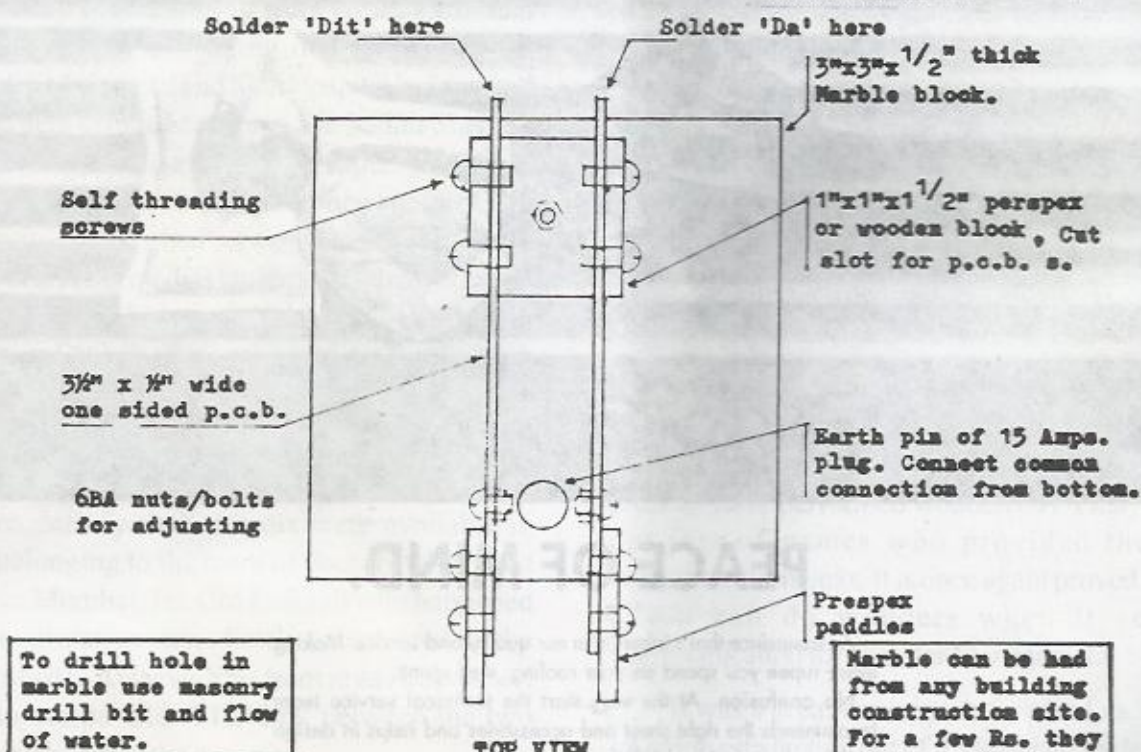
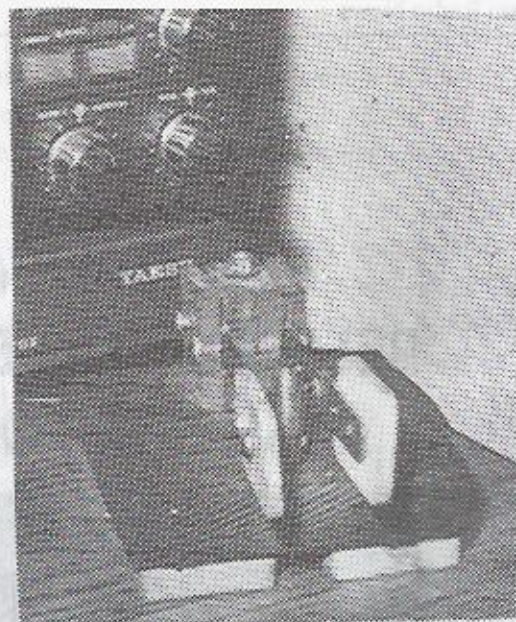
For discussions, please contact: Customer Service Cell, Eternit Everest Limited, "Ashok Bhawan", 93, Nehru Place, New Delhi - 110 019.  
Tel.: 643 2568, 643 2569. Fax: 646 4006. E-mail: [info@eterniteverest.com](mailto:info@eterniteverest.com)  
[www.eterniteverest.com](http://www.eterniteverest.com)



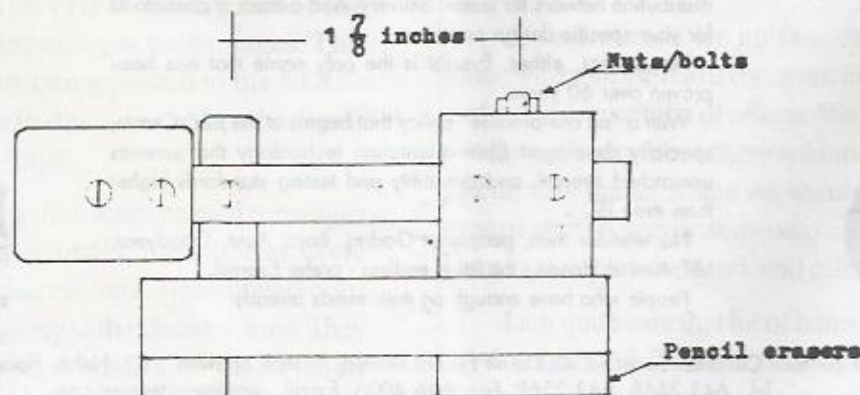
GO IAMBIC FOR LESS THAN A DOLLAR

BY

D.P.DE VU2DPD



TOP VIEW



SIDE VIEW

SCALE 1" = 1"



**SANDESH VU2SXF & CO OPERATING AT BHUJ**



**RIGS CARRIED TO GUJARAT ON DISPLAY**



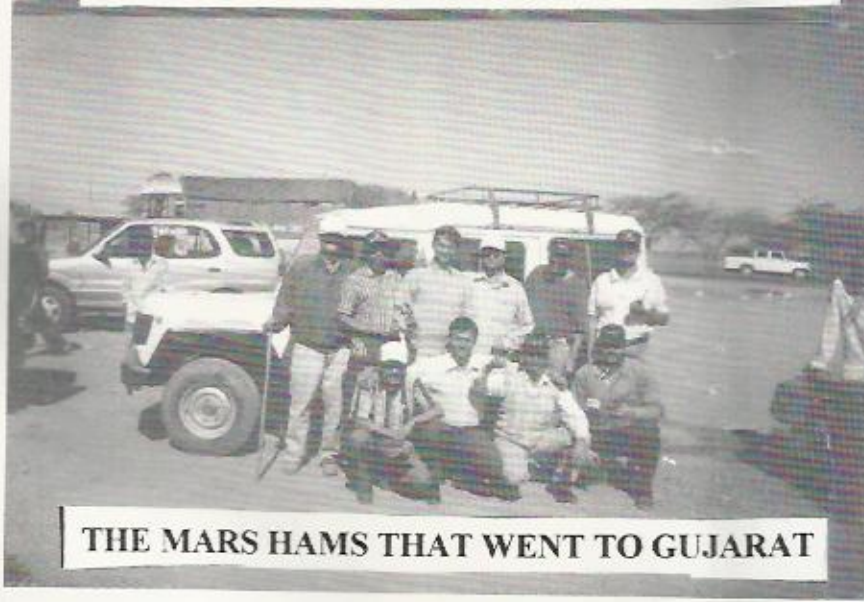
**HAPPY TIMES AGAIN AFTER HARD WORK**



**MUMBAI GROUP AWAITING AIRLIFT HOME**



**THE MARS HAMS THAT WENT TO GUJARAT**





*With Compliments from :*



**ORIOLE ELECTRONICS**

**HEAD OFFICE**

POST BOX NO. 9275

4, KURLA INDUSTRIAL ESTATE,

NARAYAN NAGAR, GHATKOPAR (WEST),

MUMBAI - 400 086.

☎ : 022-5094241 / 46 (6 Lines)

Fax No. : 5115810 / 5163149

Email : oriol@vsnl.com

*Manufacturer of :*

**Liquid Crystal Displays**

**Data Terminals.**

**Switch mode power supplier**