

Ham



RADIO

News

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

"AMATEUR RADIO- A NATIONAL RESOURCE"



Bangalore Ham team waiting for transport to go to field areas at CYSD Bhuvaneshwar L-R, VU2GUR, VU2JHM, VU3SXE, VU2VTM, VU3NOI, VU2COC. More photos on inside back cover.

14/7/1928 - 31/12/1999

"So Sez Sulu" SAAD ALI, VU2ST

Hams have lost of the most active and irrelaceable promoters of Amateur Radio and I have lost one of my closest ham friends and colleague of over 30 years.

Sulu was in Botswana for the last dozen years. In the last 2/3 years, he has not been keeping good health but there was nothing very serious. He came to India in December '99 for his annual vacation and medical check up. He was in Mallya Hospital in Bangalore, undergoing a routine operation when he suddenly and unexpectedly collapsed. The attending doctor said the risk in this case was 1% only. He had the misfortune to be that one percent!

Born in 1928 (14th July), he was a licensed ham for over FIFTY YEARS. Whenever he was posted (being in Government service) he would first promote a Ham Club and start a magazine. The articles under the heading "So Sez Sulu" became famous.

His wife Anu, VU2ANU has this to say about him:- "With deep sorrow & regret, I regret to announce the demise recently of one of our most active and leading Hams of India, VU2GV Ministry and worked in various state capitals and



(G.V.Sulu). He was an Assistant Director in the Home Delhi before going on a deputation to Police Communications in the Govt. of Botswana in Southern Africa.

Educated in Arkonam & Teruchi in Tamil Nadu, he got his Ham license as early as 1947. And for the past 50 years has done yeoman service to the community through his active participation in ARSI and other Ham societies as well as contributing hundreds of articles in Radio and Electronic magazines. He was the founder of both SIRAN (South Indian Radio Amateurs Assn.) and BARC (Bangalore Amateur Radio Club). In both these organizations he was a popular editor of their magazines with a "So Sez Sulu" mast and was also instrumental in inspiring a large number of young enthusiasts to join the Ham fraternity. It is through his sustained efforts that Bangalore had become the Ham capital of India in the seventies and his proteges are to be found now all over the country.

During his stay in Botswana he has also put that country in the picture of the Ham map of the world by vigorous propagation of the mission of Radio Amateurs. He was a founder member of the Botswana Amateur Radio Club.

Besides being a born organizer and prolific writer, he was a gifted teacher, and a large number of Police Officers of Botswana Govt were able to clear their U.K. exams with his help. George Victor was a fellow of their Institution of Electronics and Telecommunication Engineers and was responsible for bringing many engineers to the practical and hands-on world of Hamdom.

In addition to his Ham activities he was a distinguished philatelist and won a number of medals in various international exhibitions. In recognition of his services the Philately Club of Botswana had made him their President for a number of years. He was 71 years at the time of his death.

MAY HIS SOUL REST IN PEACE

The news of Sulu's sad demise came just as the magazine was going into print and proper justice could not be done to this great & unique crusader of the Ham cause. The next issue will carry more material.

All his old friends are requested to write their memoirs of Sulu for publication-

Editor

EDITORIAL

Veteran members of the Society will perhaps remember that the Memorandum of Association and Rules and Regulations of the Amateur Radio Society of India were first framed about 4 decades ago. For 2 decades, the activities remained dormant and nobody bothered to implement the provisions contained therein. The Governing Council ceased to exist and no General Body Meeting was held for a number of years.

After its revival in the early nineties, a need was felt to revise these Rules. The new set of Rules and Regulations were approved in the AGM of 1998. Certain lacunae were however found and an attempt has now been made to remove them. These are published in this issue. Members should go through the proposed changes and write to the President their comments on the proposals. All the suggestions will be considered by the Governing Council and the final draft will be placed before the AGM.

Now that the new Governing Council has been constituted, let me point out the two very important tasks to be performed by them: Recruitment of new members and soliciting advertisements for the Ham Radio News. This should not be very difficult, considering that ARSI is not - I repeat NOT, one of the many clubs and societies formed by radio amateurs in various cities and towns. It is not a local outfit. It is an all-India body, recognized internationally by IARU and a member of the IARU Region 3, comprising of 26 countries of Region 3 of I.T.U. It regularly participates in IARU Conferences and is heard with respect in its various fora. The advertisements may not have large commercial value but they certainly will bring some return to the advertisers. A large membership of the Society is a must and unless this happens, the Communication Ministry- W.P.C. in particular, will not give the importance your Society deserves.

As regards advertisements, the survival of your magazine depends entirely on the funds, we organize through ads. We do not wish to dip into the funds of the Society for running the magazine. Kindly use all your resources to bring in ads from big or small business houses, individuals, corporates, whatever.

These are the two very important tasks ahead of us. Members particularly Governing Council members must regularly write to the Secretary what they would like the Society to do to improve its image and make it more effective in propagating the hobby. The Council wishes a very Happy New Year to all its members.

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discontinued)

Big Fish in Bangalore?

Q: What is the difference between land locked Bangalore and Seaport Mangalore?

A: There are more Nets in Bangalore!

ONE LINERS

Observation the morning after the contest:

"A computer lets you make more mistakes faster than any invention in human history--- with the possible exceptions of tequilla or a borrowed Vibroplex key."

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ACTION AID INDIA ORISSA DISASTER MITIGATION MISSION HAM RADIO - ODMM CONTROL- de VU2GUR

It was VU2NTA Om Nataraj (Nat) and his efforts in getting the sponsorship through the 'Action Aid India'-Bangalore- an NGO Group, we eleven Hams had the opportunity to serve a little bit for the Orissa Disaster Mitigation Mission.

Nat, inspite of his personnel QRLs, QRM.s and other duties, and along with VU2POP Om Pratap had done very good ground work. They worked day and night till our return and seen that our Radio Comm. for ODMM did not fail. So my thanks goes to NAT and POP and the 'Action Aid India' Bangalore. And I would like to state that especially in Bangalore not else where, that no other Ham Club or Institute in Bangalore is fit to take any credit for this mission and/or sponsorship for Hams of Bangalore.

We, 11 hams went to Bhuvaneshwar in three batches: 1st batch: VU2COC Doc and VU2GUR Guru, 2nd batch after 2 days were: VU2JHM Om Ajoy, VU3SXE Om Sandeep, VU3NOI Om Suresh and VU2VTM Om Marcus. And after 3 days 3rd batch: VU3NXA Om Prem, VU3JAK Om Javid, VU3GFD Om Ahmed, VU3AJQ Om Ashraf from Kasargod-Kerala and VU3DMP Om Chetan of Mangalore.

It was 2300 hrs on 3rd November, NAT gave the clearance to me and VU2COC to proceed to Bhuvaneshwar via Mumbai since there were only two confirmed tickets. We reached Bhuvaneshwar on 4th morning (mid-day). I was wearing a bright yellow T-shirt with the emblem 'One World One Language' for identification. We missed Action Aid India people, 2M came in handy and VU3RSB invited us to NIAR control at CM's residence. Meanwhile my T-shirt attracted a gentleman and he gave us a lift, he was Shri G.B.Pathy Addl Director of Health- Orissa Min of Health. We were trying to contact Action Aid, but could not get them and decided to help VU3RSB. Meanwhile VU3RSB passed the information to Bangalore about our location.

Late in the evening we met Action Aid India at Bhuvaneshwar for a small briefing. We took VU3RSB along. On the way Om Sharath hurt both his legs in a cattle trap and was unable to walk. But, with all his pain he worked at NIAR control for a long time. Every ham has to appreciate him but to thank God there was no fracture. Then myself and VU2COC went to CYSD (Centre for Youth and Social Development) of Bhuvaneshwar. During the meeting I understood they never had an idea about Ham Radio. Thought of starting a station for base, but, VU2COC stated that he has committed to VU3RSB that he will go to Cuttack and will join us next day and he left. So that is how I happened to help VU3RSB at NIAR control for 2 days. Since then I lost contact with VU2COC. And inci-

dentally I informed Action Aid India that I will be joining with 2nd batch and we will start the full operation for ODMM. I had very odd feelings too.

However my stay at NIAR Control helped a lot to understand the situation and how to go about for successful network. I could make flow chart of stations. Got a map of Orissa marked the place of affected areas if not in full details. But could plan for VHF & HF stations to be located for the operation. Made few copies of the map for our team. More than all I became a good friend of all NIAR hams. I am sure and I have to thank all of them through your HRN i.e. VU3RSB, VU2LIC, VU2RBI, VU2JOS, VU2MYH, VU2LFA, VU2DVO, VU2POG, VU2MSC, VU2DSV, VU3GVR, VU2PHR, VU2HFR and VU2MY for their kind co-operation. Because of their co-operation, a small bridge was built for mutual co-ordination between Government and NGOs. Concentration of many NGOs at one point for relief was avoided and relief works were spread to many areas. This is my feeling.

Well the 2nd batch arrived at CYSD and VU2COC was already there and I bid good bye to NIAR and joined the Bangalore team. I was asked to stay at the control. We have erected a Slim Jim for VHF and dipole for 40 and 20 (i.e. 7025 & 14.1150). The CYSD building was high and we had this advantage for VHF. Even we used 300 Ohms ribbon cable as Slim Jim and was successfully used by VU3SXE. VU3NOI Om Suresh used a 3 element portable yagi for VHF. Throughout our communication, 99% of it was on VHF only. We had light fox hunt to reach VU3JAK who was stranded at a nodal point at 0130 hrs. Sandeep drove the car too, because our driver was having uncontrollable sleep. VU3JAK's torch was the light beam! We reached him- This is where we needed 1" map.

The next day VU2JHM was heading for Jambu, a river Island. He was in touch with control a little beyond Cuttack. The HF was on-7025. After a few hours, I heard him calling ODMM Control with his Racal and his 40 meter. DP tied between trees and jeep battery for the juice. The message "Cannot proceed to Jambu River Island Relief materials and medicines all vanished." suspected that starving people had taken it away. "Request immediate supply of food, medicine, water etc., again with escorts." Messages were flashed. He was asked to keep his station at Arunnagar and was asked to go by boat with Doctors to the Island and some volunteers to be at Arunnagar with jeep. 40 mtr was silent for sometime. Then came the message from Ajoy "There is a 4 day old baby. Baby born after the cyclone-Doctors attended-thrilled baby and mother OK. Rush medicine, babyfood." There was a big list of medicines for many patients. Since then Ajoy was there

for a week along with others with biscuit food, rationed water, without bath, shave etc. I will leave at this cause I would like other hams to write to you on their experience.

At ODMM- the type of operational movements was changing for the movements of Doctors and volunteers for different work as and when the in-accessible areas was getting cleared and also some of the nodal points were clear of Epidemic danger etc. They changed the program accordingly.

I felt that if the doctors are made Hams atleast for restricted grade they could have carried their Handy and could give the medical report to the nodal points sub-control Ham Stations.

Since we had very less Ham volunteers, ODMM was compelled to make mobile Ham stations.

Infact VU2AMR Om Dr. Amar at St. Johns Medical College Hospital, Bangalore was on 20 meter and we could get the doctor's team details. Our mobile team was awake till 0230 hrs almost every day, after meeting the doctors in many places for information.

When the 3rd batch arrived, we had some problem due to a missing bag in transit. (of course POP and NAT were on the run at Bangalore for the treasure hunt and succeeded in tracking with the help of Indian Air Lines and the bag was rushed to Bhuvaneshwar from Hyderabad. UMS Antenna were there but the cable was missing. Our batteries ran down. We had no chargers. It was very difficult to get extra batteries because Bhuvaneshwar was also hit by cyclone.

This was the time, VU3SXE found some old junk of a UPS equipment and small batteries at CYSD. Om Lokesh VU2LO came with some BNC & UHF connectors after hearing (monitoring) fellow hams QSO to Bangalore. It helped a lot we fixed up and made 3 antenna ready for field stations.

And meanwhile VU2LO Om Lokesh fixed up a make shift charger for battery. Of course VU2LO was in Bhuvaneshwar on his morning QTH work and had experienced fury of the cyclone. And also helped us giving his 4 wheeler for picking up missing luggage etc. And I am very much thankful for all his help. A real ham spirit one can find in him.

And my thanks goes to UMS of Coimbatore VU2GDG. They gave us 4 UMS 5/8 Collinear (2 meter) antennas, which were used at Base, Millanpur, Kantapara and Jambu. It was quite successful.

Also my sincere thanks goes to VU2RO Om Soma, VU2IR Om Bindu, VU2VAU Om Srini, VU2AP Om Amalda, VU2RDQ and many others who helped by passing 'QSP' in our absence on 20 meters. Since we have to shift to other frequencies for relief work messages.

To say a few things before I conclude:

1. I would like to say that Amateur Radio Society like ARSI and big clubs in all states should put a request to

GOI and to the notice of Air, Rail, Road authorities to give a priority for travel reservations for volunteers.

2. Also request GOI to give more concession for custom duty so that many of the hams can import good equipments (Because in the next budget-hear say) that they don't give any concession except for few.

3. And also request the solar cell panel manufactures to design a portable (foldable) panel for charging a 100 AH, 65 AH, 20 AH and 7 AH batteries or a miniature size for battery pack. Of course it is not a good business for a coy, but if they make it, few individuals and clubs can buy it for the need of emergencies like this. (Time is ripe now).

4. If Ham volunteers for a disaster communication please make sure that you are geared up with HF and VHF of your own. Because each one loves his equipment and may not like to part with it. It may be OK if it belongs to a club for their member volunteers. And please make sure that you work as a volunteer for at least 10 days excluding the journey days. There is no point in coming for 4 or 5 days or just for a heck of it. Be prepared for all odd travels. Knowledge on CW operation will have more advantage in critical situations.

5. It is also essential to use Head sets sometimes working simultaneously both on VHF & HF (if 2 operators). Without head phones, it will push both the operators into problem and may create tension and misunderstanding. You can avoid louder eye ball QSO in the control.

6. Please carry adequate simple medicines for your own safety, mosquito repellants, some tools, knife, paper pad, pen torch light with good cells, candles, match box, BNC connectors usable without solderings, convertible connectors, trek-kit, camp tent (if possible), sleeping bags and toilet paper rolls (Hi-better practice in peace).

7. Develop team spirit and be cordial to each other and make sure that task is done and no other differences of personal ego comes out.

8. If any persons who happen to co-ordinate with organizers for whom we volunteer must inform his team mates what the situation is and he should be frank and sure. There is no secrecy to fool around. Talk it out and let it take time. But the task is to be completed whether you like it or not.

9. Be careful with press and T.V media persons and to their questions. Don't get excited. There may be dirty politics. We are not for that.

10. Save the battery energy. Keep you communication short as possible and to the point. Keep messages with all details from whom and to whom, time of passing and receiving which station to which station etc. Any QSPs indicate passed or not. In case of pending due to loss of contact, please mention and someone can pass it.

73's

(VU2GUR)

I don't wish another disaster strikes, But

BUILD A 10 AMP 13.8 VOLT POWER SUPPLY

By N1HFX Courtesy- Charudatt Uplap VU2UPX

Sometimes amateurs like to home-brew their power supplies instead of purchasing one off the shelf at any of the major ham radio dealers. The advantage to rolling your own power supply is that it teaches us how they work and makes it easier to troubleshoot and repair other power supply units in the shack. It should be noted that there is no real cost advantage to building your own power supply unless you can get a large power transformer and heat sink for a super low price. Of course rolling our own gives us the ability to customize the circuit and make it even more reliable than commercial units. The circuit in Figure 1 will give us 10 amps (12 amps surge) with performance that equals or exceeds any commercial unit. The circuit even has a current limiting feature which is a more reliable system than most commercial units have.

Just like other commercial units, this circuit uses the LM723 IC which gives us excellent voltage regulation. The circuit uses 3 pass transistors which must be heat sinked. Resistor R9 allows the fine tuning of the voltages to exactly 13.8 volts and the resistor network formed by resistors R4 through R7 controls the current limiting. The LM723 limits the current when the voltage drop across R5 approaches .7 volts. To reduce costs, most commercial units rely on the HFE of the pass transistors to determine the current limiting. The fault in that system is that the HFE of the pass transistors actually increases when the transistors heat up and risks a thermal runaway condition causing a possible failure of the pass transistors. Because this circuit samples the collector current of the pass transistors, thermal runaway is not a problem in this circuit making it a much more reliable power supply.

The only adjustment required is setting R9 to the desired output voltage of anywhere between 10 and 14 volts. You may use a front panel mounted 1K potentiometer for this purpose if desired. Resistor R1 only enhances temperature stability and can be eliminated if desired by connecting pins 5 and 6 of IC-1 together. Although it really isn't needed due to the type of current limiting circuit used, over voltage protection can be added to the circuit by connecting the circuit of Figure 2 to vout. The only way over voltage could occur is if transistors Q2 or Q3 were to fail with a collector to emitter short. Although collector to emitter shorts do happen, it is more much more likely that the transistors will open up when they fail. I actually tested this and purposely destroyed several 2N3055's by shorting the emitters to ground. In all cases the transistors opened up and no collector to emitter short occurred in any transistor. In any event, the optional circuit in Figure 2 will give you that extra peace of mind when a very expensive radio is used with the power supply.

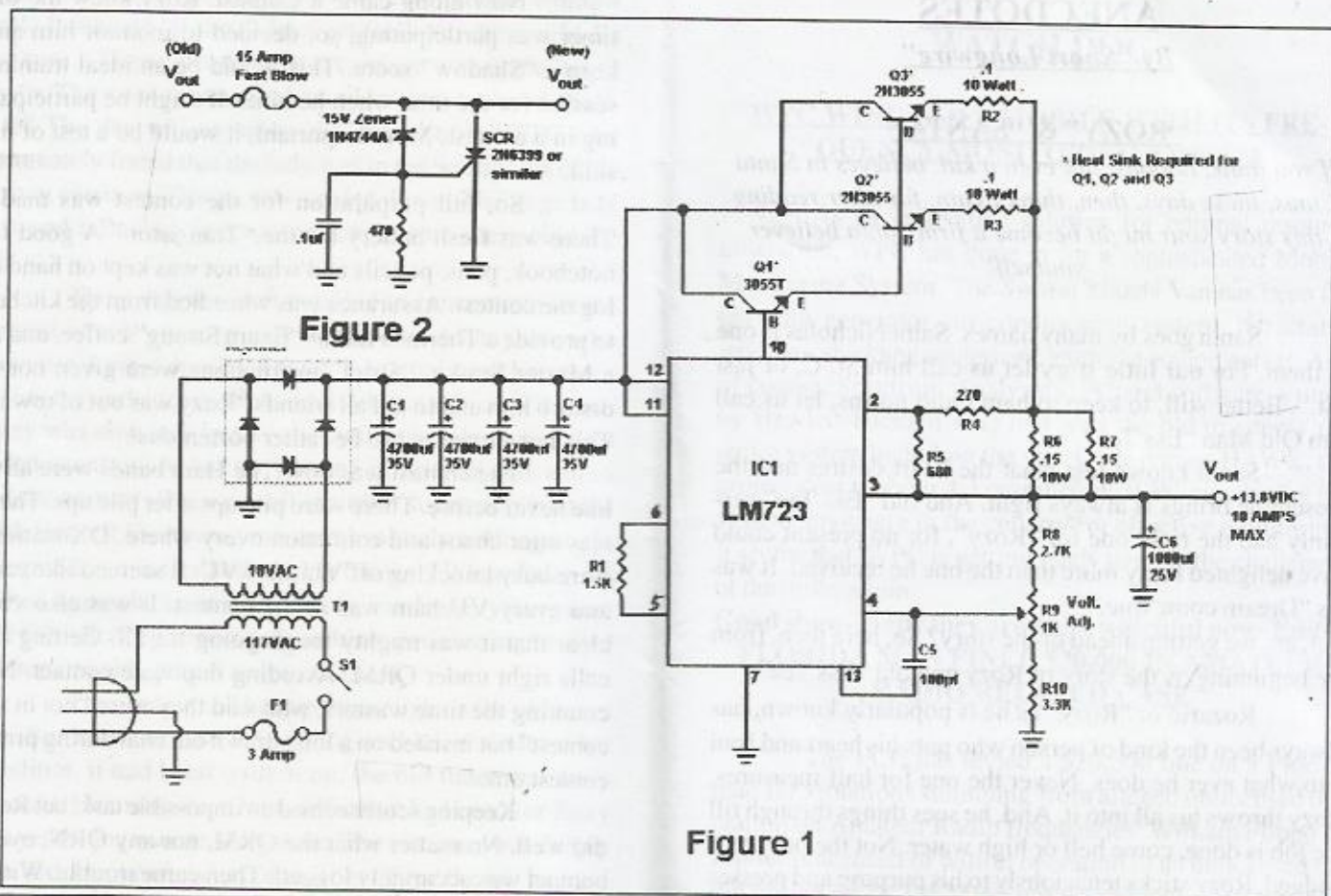
The circuit in Figure 2 senses when the voltage exceeds 15 volts and causes the zener diode to conduct. When

the zener diode conducts, the gate of the SCR is turned on and causes the SCR to short which blows the 15 amp fuse and shuts off the output voltage. A 2N6399 (Tech America) was used for the SCR in the prototype but any suitable SCR can be used. While over voltage protection is a good idea, it should not be considered a substitute for large heat sinks. I personally feel the best protection from over voltage is the use of a large heat sinks and a reliable current limiting circuit. Be sure to use large heat sinks along with heat sink grease for the 2N3055 transistors.

I have used this power supply in my shack for several months on all kinds of transceivers from HF, VHF to UHF with excellent results and absolutely no hum. This power supply will be a welcome addition to your shack and will greatly enhance your knowledge of power supplies.

Parts List

- R1- 1.5K 1/4 Watt Resistor (optional, tie pins 6 & 5 of IC1 together if not used.)
- R2,R3- 0.1 Ohm 10 Watt Resistor (Tech America 900-1002)
- R4- 270 Ohm 1/4 Watt Resistor
- R5- 680 Ohm 1/4 Watt Resistor
- R6,R7- 0.15 Ohm 10 Watt Resistor (Tech America 900-1006)
- R8- 2.7K 1/4 Watt Resistor
- R9- 1K Trimmer Potentiometer (RS271-280)
- R10- 3.3K 1/4 Watt Resistor
- C1,C2,C3,C4- 4700 Microfarad Electrolytic Capacitor 35 Volt (observe polarity)
- C5- 100 Picofarad Ceramic Disk Capacitor
- C6- 1000 Microfarad Electrolytic Capacitor 25 Volt (observe polarity)
- IC1- LM723 (RS276-1740) Voltage Regulator
IC Socket is recommended.
- Q1- TIP3055T (RS276-2020) NPN Transistor (TO-220 Heat Sink Required)
- Q2,Q3- 2N3055 (RS276-2041) NPN Transistor (Large TO-3 Heat Sink Required)
- S1- Any SPST Toggle Switch
- F1- Full Wave Bridge Rectifier (RS276-1185)
- D1-D4- Full Wave Bridge Rectifier (RS276-1185)
- T1- 18 Volt, 10 Amp Transformer Hammond #165S18 (Tech America 900-5825)



"CALL BOOK INDIA 2000"

"Call Book India 2000" with more than 12000 members licence numbers, Email addresses and telephone numbers of hams is to be released during "Rad Com 2000" in Bangalore by the Indian Institute of Hams. Hams desirous of getting a copy of this updated Call Book, kindly remit Rs 150/- (includes postage) by Demand Draft to Indian Institute of Hams P.O.Box 1927, Bangalore. If any ham has not intimated his change of QSL info, new licence or any other changes can still do now. Rush in your entries at the earliest.

LOST

A Kenwood VHF handy TH 235A M No. 90200122 belonging to VU2RSS Om R.Shanmug Sundaram has been lost while travelling by bus between Trichur and Coimbatore. A report has been lodged with the police at Palghat. Hams do be on the look out for the above SL No and inform the police immediately if traced or to VU2RSS on 0487-333020 Ext. Accounts Dept- The Catholic Syrian Bank Ltd or e-mail at csbtim@md3.vsnl.net.in.

ANECDOTES

By "Short Longwire"

"ROZY" & "SANTA"

If you think, nobody, not even a kid, believes in Santa Claus, these days, then, think again, for after reading this story your might become a firm Santa believer yourself!

Santa goes by many names. Saint Nicholas is one of them. For our little story let us call him St. C, or just "St.". Better still, to keep to ham radio norms, let us call him Old Man "Ess Tee".

Santa knows just what the heart desires and the present he brings is always right. And old "Ess Tee" certainly had the right one for "Rozy", for no present could have delighted Rozy more than the one he received. It was his "Dream come true."

But, are we getting ahead of the story? So, here then, from the beginning, is the story of Rozy and old "Ess Tee".

Rozario or "Rozy" as he is popularly known, has always been the kind of person who puts his heart and soul into what ever he does. Never the one for half measures, Rozy throws his all into it. And, he sees things through till the job is done, come hell or high water. Not the one to be budged, Rozy sticks tenaciously to his purpose and presses on regardless, to the Finish line.

This was his nature during his school days, and that is when the Short wave listening bug bit him, - and bit him deep. Rozy did all his SWLing on an ancient valve set, a relic down on its last legs. What the old fossil lacked in spirit was more than made up for by Rozy's sharp listening skill. In no time at all he had a bulging Log Book. None could mention a station that was not already in his Book.

Then a very nice thing happened. Rozy discovered the Amateur Band! And, he was bowled over, completely. Around this time he also came into the possession of a small "Transistor." This was freedom! Not being tied to the old radio meant no more awkwardness trying to listen to the Amateur band while there was company in the house. Now Rozy could "Tune-in" far from the madding crowd. Eventually, he earned his Call VU2CAT.

Rozy knew the Ham band like the back of his hand. Nothing escaped his notice. He monitored the Nets, the Round Tables, the Rag Chews- everything. Best of all he liked listening to the QSO's of Old Timers. One particular old timer was special to Rozy. Rozy admired this OT's style. The polished way he spoke. The measured diction. The pleasant tone of his voice. His ever polite urbane manners. The courtesy and consideration which characterized his QSO's. All these made deep impression on Rozy. Rozy admired this old timer.

Now along came a Contest. Rozy knew the old timer was participating, so, decided to monitor him and keep a "Shadow" score. This would be an ideal training session for the time when he himself might be participating in a contest. More important, it would be a test of his skill.

So, full preparation for the contest was made. There was fresh battery for the "Transistor." A good fat notebook, pens, pencils and what not was kept on hand to log the contest. Assurance was wheedled from the kitchen to provide a Thermos full of "Exam Strong" coffee, and as a Master Stroke, "Strict" instructions were given not to disturb him and to tell all friends "Rozy was out of town." This last turned out to be rather portentous!

The contest was ON! The Ham bands were alive like never before. There were pile ups after pile ups. There was utter chaos and confusion every where. DX stations were busy knocking off VU after VU. It seemed like each and every VU ham was in the contest. It was also very clear that it was mighty tough going for all. Getting the calls right under QRM. Avoiding duplicate contact. Not counting the time wasters, who said they were "not in the contest" but insisted on a long drawn out chat during prime contest time!

Keeping score seemed an impossible task, but Rozy did well. No matter what the QRM, nor any QRN, every contact was accurately logged. Then came trouble. With a capital "T". Rozy really had to go out of town! That did not phase him at all. "Never Say Die" Rozy, simply bundled up his Transistor, his Log Book and Kit and headed for the railway station. He was monitoring and jotting down as he stood in the queue for the ticket, not at all bothered with the strange looks he was getting from the line. On the platform as he waited for the train he drew quite a lot of attention and comments. But Rozy was oblivious of all this, which was good thing really, for had Rozy heard some of the remarks he might have been more than a little concerned. The milder ones were inclined to restrain Rozy and hand him over to the authorities. Most others favored "working him over" and THEN call the authorities. Through all this, ear glued to the transistor, Rozy was happy for not having missed one, single, contact! Mercifully the train came in and the attention of the sporting crowd was diverted and the special treatment forgotten.

Rozy stepped into the train with the transistor still stuck to his ear. The journey was a nightmare for Rozy. Not because a baby had brought up his dinner all over him. Nor for the ten kinds of torture he was suffering on the over crowded compartment. His agony arose from the possibility of having to give up the window seat that he had secured for himself with a maneuver that would have earned him admiration from WWF fans. The window seat was absolutely crucial. Nowhere else could the contest be heard through the heavy QRN. But trouble loomed in the

form of a very large lady, who lay claim to the window seat. It seemed "if she did not get fresh air, she would die for sure." The sympathy of the carriage was in the lady's favor. The young man at the window was declared "Selfish." The day was saved by the arrival of the TTC who fortunately found that the lady was in the wrong seat of the wrong carriage. Things now cooled down. The large lady downed a Banana and was no longer sure she would die off.

Rozy was now left in peace to concentrate on the contest which was now nearing the end. As any one who has ever done a contest knows it is total mad house towards the end and absolute undivided attention is a must. Rozy was now able to give the contest his absolute, undivided attention. At last the journey came to an end, and so did the contest. Rozy got off the train supremely pleased with himself for having missed absolutely nothing at all, (despite large ladies and puking babies!) When Rozy returned home, he went over the log, made everything neat and fair, wrote up a short note on his experience and mailed the log in a tidy parcel to the old timer.

The contest had been pretty rough on the old timer too. So, when he saw Rozy's log and knew under what condition it had been written up, the old timer was truly amazed. He understood how difficult it had been for Rozy and yet the log was dead accurate. The old timer was deeply touched. His heart went out to Rozy. Then the big hearted old timer did something typical of him.

Not losing a moment, then and there, he picked up a nice Communications receiver and sent it off to Rozy as a present. This was his way of expressing appreciation. The old timer knew his gift was going to the one person who wanted it, deserved it and would appreciate it.

Did I say earlier that the present was a "Dream come true"? That was putting it mildly! Rozy was Ecstatic. You say "That is the way things should happen"? But, of course! That is the way things would happen! After all, Rozy believed in "Ess Tee"!

And now, we have come to the end of the story. Did some one say "Not quite. Something still is to be told"? Oh! I see, the big question, "Who was the Old Timer?" But, I have already told you! It was a present from EssTee, Om Saad, - VU2ST!

THE OLD DXER

The sunspots were roaring and the Old Dixer was working DX night and day. The faithful XYL had had it with his QRZing and blew her stack. "DX DX DX- that all you ever think about!" she groaned, "Why I'll bet you don't even remember our wedding date!!"

"I mostly certainly do" was the immediate reply. "It was June 14th, 1958. That the night I worked the XT1, the CR0, and the AC6!!"

WATCH DOG

WPC WING GOES MOBILE WITH ITS FREQUENCY MONITORING SYSTEM

As an innovative solution for optimal resource utilization, WPC has gone in for a sophisticated Mobile Monitoring System. The Swaraj Mazda Van has been fitted with generator, air-conditioning system, retractable antennas, shielding equipment, earthing equipment etc. And of course, Spectrum Analyzers, PC and software written by Hewlett-Packard who had won the bid to supply the entire system including the van. Code named HAWK, the project cost is about 4.3 crore! Now, WPC can deploy the system anywhere in the country for effective monitoring. It seems that WPC is getting ready to meet the challenges of the millennium.

Good show- Hope they are more watchful now- Editor FLORIDA MAN FINED \$20,000 IN AMATEUR RADIO RELATED CASE

The FCC has levied a \$20,000 fine on a Florida man for violations stemming from alleged unlicensed operation on Amateur Radio frequencies. William Flippo of Jupiter is accused of willful operation of an unlicensed radio station on 28.375 MHz, willful and malicious interference with ongoing Amateur Radio communications, and with failing to let FCC representatives inspect his radio equipment. All of the alleged violations are said to have occurred June 8, 1999.

The FCC's Compliance and Information Bureau had been investigating complaints from hams in the Jupiter area for nearly two years. According to the FCC, the hams identified Flippo- a CB operator known as "Rabbit Ears"- as the source of intentional interference to ham communication. One ham in the area says the local amateur community has "for many months" been experiencing deliberate interference problems on 10 meters as well as on a local 2-meter repeater, although the FCC did not cite Flippo for any violations involving 2 meters.

Local hams also provided the Commission with audio tapes and the results of close-in monitoring and direction finding. Last February, on basis of the "evidence at hand," the FCC Tampa Field Office advised Flippo of the allegations and warned him that a fine could result.

Flippo "categorically" denied the allegations in the warning letter, but hams in the Jupiter area said the intentional QRMing ceased for a while.

When renewed complaints from hams arose this spring, however, an FCC agent traveled to Jupiter to investigate. The agent used direction-finding techniques to determine that intentional interference to amateur traffic "was occurring and that the intentional interference was

being transmitted from the residence of William Flippo."

The FCC says the agent monitored and heard taped portions of a 2-meter ham radio net earlier that day being replayed on top of amateur communications on 10 meters "in an attempt to intentionally disrupt and interfere with those communications."

The FCC agent, accompanied by a local sheriff's deputy, attempted to inspect the radio equipment at Flippo's residence on June 8, but Flippo reportedly refused to allow the inspection.

Flippo had 30 days to respond to the FCC Notice, sent July 12 by FCC Tampa District Director Ralph M. Barlow.

FCC QUERIES K1MAN ON CONTROL OP'S WHEREABOUTS

The FCC wants to know who was the control operator and where he or she was when Commission personnel visited the station of Glenn Baxter, K1MAN, in Belgrade Lakes, Maine, in mid-May and failed to find Baxter or anyone else on the premises. As FCC Attorney for Enforcement Riley Hollingsworth, K4ZDH, had announced at the Dayton Hamvention, FCC engineers from the Commission's Boston office unsuccessfully attempted to inspect Baxter's station while it was on the air May 14 and again the following day. They reported that the station was transmitting, but facilities appeared to be locked and no one was around.

Hollingsworth wrote Baxter June 25 to formally inquire into the circumstances of the May visits. He also asked if K1MAN employed station automation equipment and if the station ever was remotely controlled.

The FCC says that during its first attempt to visit K1MAN, on the morning of May 14, 1999, K1MAN was transmitting on 3,975 MHz. FCC personnel say they were unable to find anyone—either at Baxter's station at the tip of Long Point or at his nearby residence—and, according to Hollingsworth's letter, "there were no vehicles on the premises."

"The radio transmissions continued while the FCC personnel went to your residence at Point Road, but there was no one present there either," Hollingsworth wrote. The next day while K1MAN was on the air, Hollingsworth wrote, "FCC personnel again attempted to inspect your station but there was no one present and there were no vehicles."

In addition to the name, address, and telephone number of the control operator on those two occasions, the FCC wants to find out where the control operator was and at what times, and on what frequencies, K1MAN transmitted on May 14 and 15, 1999.

Hollingsworth asked Baxter to list the name, address and telephone number of all control operators of

K1MAN during the hours of operation listed on Baxter's Web site and in his daily transmissions. He also inquired if any portions of K1MAN transmissions automated, and, if so, to provide details and a copy of the control circuit.

In addition, Hollingsworth asked Baxter to list the programming schedule for K1MAN for the period of January 1, 1998 through June 1, 1999, "and provide the dates, times and frequencies," as well as the name address, and telephone number of the control operator for each of those transmissions.

The FCC also wants to know if automated tape control devices were utilized at K1MAN during the period January 1, 1998 to June 1, 1999, and, if so, on what dates, times, and frequencies.

Hollingsworth's letter asked Baxter to list all dates, times and frequencies that K1MAN has transmitted without a control operator being present since the inception of the license term on October 17, 1995.

Finally, the FCC said it wants to know K1MAN has been controlled remotely since the inception of the license term on October 17, 1995, and, if so, on what dates, times, frequencies. Hollingsworth's letter also requested a "detailed schematic of the control circuit configuration."

The FCC letter gave Baxter 30 days to provide the requested information.

NEWS AROUND THE COUNTRY

IDUKKI REPEATER

The first VHF Commercial Repeater in Kerala with government aid is coming up in the central part of the state. HAMS' EMERGENCY COMMUNICATION SOCIETY, IDUKKI, has got the required financial assistance from the District Panchayat to set up the repeater station at Kallyanathandu Hills. Formed in 1983, the Ham Club in Idukki had acquired land for the repeater station years ago. They could convince the authorities the usefulness of our hobby, especially during natural calamities. The repeater station VU2HEN has got Kenwood TKR 720, Wacom BpBr Duplexer WP639, and Cushcraft ARX25 antenna. These are brand new equipment imported direct from USA. The equipment was tested successfully on 15th August 1999. For and on behalf of IRINJALAKUDA AMATEUR RADIO CLUB, Om Santosh VU2SEP has donated the Tubular batteries for the Repeater. It is hoped that other ham clubs and individual hams will follow suit and support the activities of VU2HEN. The building construction is in full swing and the repeater will be switched on during the first week of November. The repeater frequency is 145.100 MHz with standard positive shift. This repeater is expected to cover central & south Kerala and several parts of neighboring states. We congratulate all the members of HAM CLUB, Idukki and HAMS' EMERGENCY COMMUNICATION SOCIETY for the successful implementation of the first phase of the Repeater Project.

Satellite RS-13

Satellite enthusiasts suffered a few days of anxiety as there was no proper response from RS-13. The Beacon was OK, but the mid band downlink signal was a strange "Pip Pip...", like the 'Second' pips of a time signal. Some Teleprinter like signals were also heard. There was no response to the Uplink signals either on 21MHz or 145 MHz. To the relief of all Sat fans, the problem cleared, and RS-13 is now back in action as well as it ever was. And now, RS-13 is waiting for YOUR Uplink!

Orissa Cyclone

All present at the Bangalore Amateur Radio Club (BARC) monthly meeting, got first hand impressions of the relief operations from those who had been to Orissa. Photographs were viewed. Maps were scanned. All at the meeting were greatly effected by the description of the cyclone havoc. All involved in the relief work were complemented and their good work praised.

Pixie

The PCB used in the "Tiffin Box Pixie" as shown on the front cover of HRN Oct/Dec 99, was assembled by "Jay" VU2QX, (formerly VU3CRJ). Jay loves QRP and he is particularly fond of his (QRP) TenTec "Argonaut 509". Using this he won top honours in the CQ WW CW contest '97. He was no.1 from India & no. 4 for Asia (QRP). He worked 35 zones & 74 countries to win this top honour. Now, Jay has also acquired an FT 757 GX and an All band vertical antenna. Jay is presently writing software for Logging and rig control. Look up Jay's interesting Web Site- <http://www.qsl.net/vu2qx> & <http://www.qsl.net.vu3crj>

QNY= I Smile!

If your club meetings are dull & dreary. If you have problems running a Net, the best remedy is QNY! QNY will make your meetings a barrel of fun. As for the Net, you will wonder where all those eager 'check ins' were hiding till then! QNY is Om 'Ismail' VU2QNY!

Unsung Heroes of QSL Buro

I for one have the highest regard for QSL Bureau Managers. It is a safe bet to say- "so does every other amateur." The work is thankless, tedious and a drudgery. The task often made needlessly more difficult by unsorted and unmarked cards sent in by careless amateurs. This, and other hazards, the Managers take in their stride, without a murmur or grumble. Most of us simply take the buro for granted. Clearly, for the managers, it is a "Labour of Love." The buro managers selfless service to Amateur Radio will not go unappreciated. To Vittal VU2VIT & Adolf VU2AF and all involved in the buro, I say a simple, but sincere & heartfelt "THANK YOU!"

RF Bridge

The RF bridge published in HRN was the work of MOHAN VU3TGC. Several of these are in use here in Bangalore. The pix shows the "As Made" Bridge. Mohan just com-

plete his graduate studies, leaving him little time for Home brewing. Never the less Mohan is well on the way to completing an "RM96", a Delhi style VHF kit, (for which Mohan is short of a couple of BA244) & he has completed an SL100 QRP Rig. Also, he has fabricated several very neat looking VHF Ground Plane antennas. In this design, the Coax feeder goes inside the pipe supporting the GP assembly which sits coaxial on the support pipe, this results in a very trim & neat looking antenna. One of these GP's is even used for Satellite Uplink!

Band Activity

Om Karan VU3GTF from New Delhi was heard on 10 meters working DX like nobody's business! Karan was strong even back of the beam. No wonder he was getting reports of 59+ from the direction where the beam was pointed. Karan's 3 Band 3 Element Yagi Beam, up at 20 meters is doing a fabulous job.

Twenty meters, nearing sunset time, is wide wide open. The 'Big Guns' - VU2AU, VU2XX, VU2EN, VU2DK, VU2CK, VU2AB, 4S7DA and others are there pulling in dozens of North Americans via Long Path.

Our very articulate & champion Phone operator, "SAM", VU2HI was mobbed on 20 the other day by numerous VU's. The reason? Sam had been 'unheard' on the band for quite some time. This was because Sam had lost his voice, and phone operation was out. So, he was missed by all on the band. Much to everyone's relief Sam regained his voice. When he went on the band he got call after call and numerous breakers were there too. He had a tough time signing. Finally he was allowed to sign so that he might rest his voice.

LETTERS TO THE EDITOR

From: Bindu VU2IR

Dear Sir,

All of us here were distressed to hear of your injury and now, happy to know you are on the mend. Saad - wish you a speedy, full "5 9++" recovery soon, so that we might find you back in harness double quick! A few observations. First & foremost, "HATS OFF" to all the Radio Amateurs who participated in the relief operations in Orissa. All of us VU amateurs say "GOOD WORK, FELLOWS!" Now, while things are still fresh in mind, we must work out ways to handle relief op BETTER.

All those rare QSL's!!! WOW! WOW!! What a treat. Thanks a zillion Kab! Next, concerning HRN, Kolkata is bursting with talent. Giants of Amateur Radio, past & present, made Kolkata their home, yet, we don't find much from Kolkata in HRN. I am sure I speak for all readers of HRN when I say we miss, very much, Amateur Radio articles from Kolkata. I hope Kolkata Amateurs will not disappoint us and soon HRN will give its readers loads

of articles from Kolkata on Home Brewing, operating procedures, Tech topics, amateur radio history, etc. etc.

Next, a word about a good Home Brewer, and a good Op. I would like to congratulate Hursh VU3BTP of Bokaro and express my appreciation on the excellent quality of his SSB transmission. Of all the home brew rigs, Hursh's rig puts out one of the best quality signal I have heard. It is a pleasure to listen to that clear, clean SSB. "Congratulations Hursh! It would be nice to see details of your HB design in HRN!"

Now regarding "PIXIE" - the original board used so successfully here in Bangalore, was assembled by Jay VU3CRJ, now VU2QX. Jay has been very QRL, (travelling abroad, changing QTH etc.), hopefully he will find time soon to put Pixie through its paces on 20 meter band.

Nice to see AIR NET attracting more & more, VU & DX, despite uncertain propagation. Some times Mumbai Net Control is not heard well in Bangalore and vice-versa I am sure. VU2CBE & VU2AB are usually in skip. VU2PEP is "ok" copy. We Bangalore wallahs get left out of Air Net. Hopefully we will have Net Control stations from Gujarat and Delhi. They should be heard well here in the south. VU2SL, VU2JF & VU2CC are very good copy in Bangalore. VU2DPD Dipu from Kolkata come through extremely well into Bangalore. It was good to see him as the Net Control the other evening. It would be really nice if we could rope in VU2NKB Barua to take charge of Air Net regularly. He would have command of all VU from up there in Assam!

I wonder, who amongst us VUs is located farthest North, South, East & West? And, who could claim to be in the Centre of India? Perhaps readers will supply the answer. All the best & 73 de Bindu VU2IR

NEWS FROM THE CLUBS.

It is unfortunate that we don't receive any regular reports of Club activities. The outstanding report for this issue is about the ham participation in Orissa relief operation sent by Guru VU2GUR which is published elsewhere. Besides this, the only regular contributor are the Bangalore boys and their newsletter VU2ARC is quite regular.

In the September special issue, they have offered congratulations to Arasu VU2UR for been appointed Monitoring Co-ordinator for Region 3 by the I.A.R.U. (we would also like to congratulate him). This newsletter often has interesting tit bits for home brewers for instance the present issue has details for the construction of a Paddle Key.

In the October issue, there is a report on the Mysore Hamfest & BARC participation in Jota. The technical articles concerns calculating coils for HF by SMO VPO. The November issue has a report on the Bangalore hams' participation in the Orissa cyclone relief operation and the technical article concerning RF Baluns. The grand ware publication by Ham Radio Guild (Cochin) of Oct '99, mentions the Idukki repeater, amongst other tit bits. There is also a report of an exposition to ham radio in Ernakulam & technical note on the charging of NiCad cells at various temperatures.

FOREIGN NEWS

Taking Amateur Radio into the 21st Century Amateur Radio and the Internet

DTI Press Notice- 23 November 1999

At the Radio communications agency's "Making Connections 99" Roadshow held in London on 29th October, it was announced that the Agency would be allowing inter-connection between amateur radio and the Internet by the end of the year. David Hendon, the Agency's Chief Executive, made the announcement in response to requests from the amateur radio community to be permitted to link their radio equipment through the Internet. The Agency recognizes the need to encourage young people into amateur radio as it provides a valuable training ground for future careers in radio and electronics. Recognizing the huge appeal of the Internet to the young, the Agency has taken this decision to open up whole new avenues into amateur radio.

It is likely that the introduction of this exciting new facility will be phased in, beginning at the end of this year. The Agency would like to hear from interested licensees in order that we might determine their requirements and identify any safeguards that may be necessary to avoid abuse of this facility. Details should be sent in writing to the Amateur and Citizens' Band Radio Section, 10G/9C, Wyndham House, 189 Marsh Wall, London E14 9SX or by e-mail to amcb@ra.gtnet.gov.uk to be received by 31st November.

Following the Agency's earlier announcement that radio amateurs will be able to connect to the Internet, the following facilities have now been agreed. Following the consultation with the Radio Society of Great Britain (RSGB) and a number of interested individuals, a change will shortly be made to the Amateur Radio Licence clarifying that connection of amateur radio to non-amateur networks will only be permitted by written permission from the Secretary of State. This change will not become effective until late January to allow time for licensees to apply for this special permission.

The initial phase of experimentation will allow for applications in the following areas:

1. Linking of repeaters to non-amateurs networks

The RSGB's Repeater Management Committee will be responsible for the initial processing of applications. Applications must be made through Repeater Keepers who will be responsible for co-ordinating connections to their repeater so that maximum use can be made of this facility and to prevent unnecessary over lap. It is envisaged that for any repeater, one or two Gateways will be authorized with a call sign made up of the Repeater call sign/ 1,2,3 etc. Annex A is the proposed notice of variation. One area

still under discussion is whether separate frequencies should be identified for the link or whether the established Repeater input and output frequencies could be utilized. We welcome any input to this discussion.

2. Linking of Mailboxes

Existing SysOps will be able to apply for an extension to their Mailbox Notice of Variation to allow connection to non-amateur networks. Applications should be made to the RSGB's Datacommunications Committee. The proposed text to be inserted is at Annex B. New applications for Mailboxes should request this additional facility if required.

3. Remote Control of Repeaters

Applications may also be made for remote control of repeaters using non-amateur networks. These should be made to the RSGB's Repeater Management Committee.

Comments on these first developments and on what further changes the Agency should consider in the next and later stages are invited at any time by e-mail to amcb@ra.gtnet.gov.uk or by letter to:

Amateur Radio Section
Radiocommunications Agency,
10G/9C, Wyndham House,
189 Marsh Wall, London. E14 9SX

CHANGING TIMES

What it meant then !!!

Windows were something you hated to clean.

And **Ram** was the name of a God.

An **Application** was for employment

A **Program** was a TV show

A **Cursor** used profanity

A **Keyboard** was a piano.

Monitor meant listen to the radio.

And **Disk** referred to a record.

Domain was your area of operation.

And a **Site** was where there was construction going on.

Net was used by only fishermen.

While **Surfing** could be done only at sea.

Link always meant a middle man.

And **Click** is what you did with a camera.

Compress was something you did to garbage not to files.

And if you **Unzipped** anything in public, you could be jailed!!

AWARDS

JARL 2000 AWARDS

1. "Japan Domestic 2000 Award" for contacts with more than 2000 different amateur stations in Japan.
2. "Global 2000 Award" for contacts with more than 2000 different amateur stations outside of his/her own country.
3. "Japan Domestic Award" for acquiring more than 2000 prescribed points by communication with amateur stations in Japan.

Point: (the total number of "cities", "guns", "kus" contacted in each band) X (the total number of "prefectures" contacted in each band).

In Hokkaido, "shichos" are considered as "prefectures."

4. "Global Award" for acquiring more than 2000 prescribed points by communication with amateur stations in the world.

Point: (the total number of entities contacted in each band)

X (the total number of WAZ zone contacted in each band).

REQUIREMENTS

(a) A list of contacts (receiving QSL card is not necessary) furnished with the call signs of stations worked (heard), dates, bands and modes of the contacts (receptions). Please do not send QSL cards.

(b) The fee for the award: 8 IRCs.

(c) Only contacts (receptions) made from January 1, 2000 to December 31, 2000 will be acceptable.

(d) JARL will start accepting application on April 1, 2000, and will close on May 31, 2001.

(e) Applicants can request for maximum three of the following four endorsements: Bands, Modes, QRP, QRPp

(f) There are more new JARL awards. Please refer to: http://www.jarl.or.jp/English/4_Library/A-4-2_Awards/Award_Main.htm

(g) For more information and all correspondence should be sent to: Japan Amateur Radio League-Award Desk
1-14-5 Sugamo, Toshima, Tokyo 170-8073, JAPAN
oper@jarl.or.jp

The Japan Amateur Radio League, Inc.

Phone: +81-3-5395-3106

Fax: +81-3-3943-8282

Email: intl@jarl.or.jp

BACK ISSUES - HRN

The Society has a back issues except a few, of the Ham Radio News right from Vol I issue I January 1994. Members who desire to have the back issues, could send in the amount by Demand Draft plus postage. This will be in "First Come First Serve". Each issue will cost Rs.5/- plus Rs.2/- for postage for single copy. If multiple issues are required then add Rs.2/- per copy.

HAMFEST INDIA 2000

The 10th Hamfest is scheduled to be organized in Hyderabad. Details are awaited. Hope this will be organized in Hyderabad. Details are awaited. Hope this will be a well organized event and will not have any last minute confusions built in unlike the recent ones.

MEMBERS DUES.

In spite of personal reminders by post, telephone and e-mails, members have still not cleared their outstanding dues. Even reminders have been printed in the HRN. Now to once again remind members about their dues a list is printed State wise and Metro city wise. Kindly look up and clear the dues against your name by 31st March 2000. Total amount of dues from Corporate members only is above Rs 70K. To once again remind members that yearly fee falls due on the 1st of April each year and if not paid by 30th June a penalty of Rs.10/- is imposed. Amounts shown is with penalty. Members who do not clear their dues for 24 months will cease to be members of the Society.

Honorary Secretary.

BANGALORE:

1.	VU2YJ	Rs. 160/-	C-0414
2.	VU2GX	Rs. 160/-	C-0565
3.	VU2TUN	Rs. 320/-	C-0572
4.	VU2GUR	Rs. 160/-	C-1048
5.	VU2SE	Rs. 320/-	C-1059
6.	VU2FI	Rs. 320/-	C-1106
7.	VU2BGJ	Rs. 320/-	C-1150
8.	VU2RMH	Rs. 160/-	C-1164
9.	VU2POP	Rs. 320/-	C-1235
10.	VU2MYK	Rs. 320/-	C-1239
11.	VU2AKI	Rs. 320/-	C-1264
12.	VU2BRK	Rs. 320/-	C-1350
13.	VU2ARG	Rs. 160/-	C-1419
14.	VU2LU	Rs. 320/-	C-1501
15.	VU2MIK	Rs. 320/-	C-1502
16.	VU3NOI	Rs. 320/-	C-1503
17.	VU3MMP	Rs. 320/-	C-1504
18.	VU3HPG	Rs. 320/-	C-1505
19.	VU3TGC	Rs. 320/-	C-1507
20.	VU3WIC	Rs. 320/-	C-1508
21.	VU2QX	Rs. 320/-	C-1509
22.	VU2AC	Rs. 160/-	C-1510
23.	VU2YL	Rs. 160/-	C-1511
24.	VU2KMU	Rs. 320/-	C-1546
25.	VU3SGS	Rs. 320/-	C-1557
26.	VU3SUU	Rs. 320/-	C-1558
27.	VU2BHR	Rs. 160/-	C-1559
28.	VU2GGM	Rs. 160/-	C-1565
29.	VU3JBE	Rs. 160/-	C-1585
30.	VU3EOF	Rs. 320/-	C-1621
31.	VU2NUD	Rs. 160/-	C-1633
32.	VU2CJH	Rs. 160/-	C-1665
33.	VU2VNI	Rs. 160/-	C-1666

CHENNAI:

1.	VU2VIT	Rs. 160/-	C-0038
2.	VU2ADE	Rs. 320/-	C-0094
3.	VU2KBX	Rs. 160/-	C-0332

4.	VU2GKM	Rs. 160/-	C-0664
5.	VU3GKN	Rs. 210/-	C-0930
6.	VU2ZQJ	Rs. 320/-	C-1000
7.	VU2ZWC	Rs. 320/-	C-1036
8.	VU2PQR	Rs. 320/-	C-1055
9.	VU2SJU	Rs. 320/-	C-1092
10.	VU3PST	Rs. 320/-	C-1170
11.	VU3GGB	Rs. 320/-	C-1171
12.	VU3FMN	Rs. 320/-	C-1227
13.	VU2TSJ	Rs. 160/-	C-1241
14.	VU3SMZ	Rs. 320/-	C-1282
15.	VU2KJS	Rs. 320/-	C-1299
16.	VU2CMR	Rs. 320/-	C-1351
17.	VU2YKN	Rs. 320/-	C-1362
18.	VU2GIJ	Rs. 160/-	C-1410
19.	VU2PMM	Rs. 320/-	C-1437
20.	VU2JSM	Rs. 320/-	C-1462
21.	VU2RSU	Rs. 320/-	C-1463
22.	VU2PUD	Rs. 160/-	C-1491
23.	VU2AMJ	Rs. 320/-	C-0903
24.	VU2JA	Rs. 170/-	C-1556
25.	VU3MDA	Rs. 320/-	C-1572
26.	VU2YNT	Rs. 210/-	C-1582
27.	VU2KTL	Rs. 160/-	C-1600
28.	VU2TTL	Rs. 160/-	C-1609
29.	VU2AXA	Rs. 320/-	C-1625
30.	VU2GSG	Rs. 160/-	C-1643

CALCUTTA:

1.	VU2RF	Rs. 320/-	C-0093
2.	VU2DG	Rs. 160/-	C-0298
3.	VU2JK	Rs. 160/-	C-0383
4.	VU2VRG	Rs. 210/-	C-0888
5.	VU2AKZ	Rs. 320/-	C-0902
6.	VU2KLL	Rs. 160/-	C-0947
7.	VU2NKI	Rs. 320/-	C-0962
8.	VU2SLF	Rs. 320/-	C-1174
9.	VU2TIL	Rs. 160/-	C-1219
10.	VU2TRF	Rs. 160/-	C-1298
11.	VU2MLC	Rs. 320/-	C-1321
12.	VU2EM	Rs. 320/-	C-1353
13.	VU2PB	Rs. 320/-	C-1480
14.	VU2JSH	Rs. 320/-	C-1624
15.	VU3SAQ	Rs. 50/-	C-1710
16.	VU2AGJ	Rs. 320/-	C-1348
17.	VU2RGV	Rs. 210/-	C-1588
18.	VU3BGI	Rs. 320/-	C-1178

MUMBAI/ NAVI MUMBAI/ THANE

1.	VU2DNL	Rs. 160/-	C-0086
2.	VU2LK	Rs. 160/-	C-0312
3.	VU2BEJ	Rs. 160/-	C-0316
4.	VU2PMA	Rs. 160/-	C-0463
5.	VU2DSD	Rs. 320/-	C-0922

6.	VU2ADW	Rs. 160/-	C-1024
7.	VU2SJC	Rs. 160/-	C-1038
8.	VU2SNW	Rs. 160/-	C-1053
9.	VU2ADO	Rs. 160/-	C-1065
10.	VU2APZ	Rs. 160/-	C-1088
11.	VU2MSB	Rs. 160/-	C-1137
12.	VU3RJT	Rs. 160/-	C-1141
13.	VU2SCI	Rs. 420/-	C-1161
14.	VU2JPG	Rs. 320/-	C-1162
15.	VU2WKG	Rs. 320/-	C-1176
16.	VU2REK	Rs. 160/-	C-1203
17.	VU2JPN	Rs. 50/-	C-1232
18.	VU2VAA	Rs. 160/-	C-1285
19.	VU2UNO	Rs. 320/-	C-1368
20.	VU2PTM	Rs. 160/-	C-1401
21.	VU2NLF	Rs. 160/-	C-1402
22.	VU3HRK	Rs. 320/-	C-1409
23.	VU2PKX	Rs. 320/-	C-1435
24.	VU2SXG	Rs. 320/-	C-1445
25.	VU2ROH	Rs. 320/-	C-1446
26.	VU2FPK	Rs. 320/-	C-1453
27.	VU2IIA	Rs. 160/-	C-1460
28.	VU2SXF	Rs. 160/-	C-1465
29.	VU2KGO	Rs. 160/-	C-1591
30.	VU2MML	Rs. 160/-	C-1593
31.	VU3LBA	Rs. 160/-	C-1602
32.	VU2RKS	Rs. 160/-	C-1635
33.	VU2XYL	Rs. 160/-	C-1644
34.	VU2BSK	Rs. 160/-	C-1645
35.	VU2ABK	Rs. 160/-	C-1646
36.	VU3WJO	Rs. 160/-	C-1685
37.	VU3PVA	Rs. 160/-	C-1686
38.	VU3VUK	Rs. 160/-	C-1689
39.	VU2MNI	Rs. 320/-	C-0929
40.	VU2ZOL	Rs. 210/-	C-1314

NEW DELHI:

1.	VU2LO	Rs. 320/-	C-0232
2.	VU2BSB	Rs. 160/-	C-0304
3.	VU2YK	Rs. 320/-	C-0381
4.	VU2SK	Rs. 160/-	C-0440
5.	VU3AKW	Rs. 160/-	C-0604
6.	VU2APC	Rs. 370/-	C-0904
7.	VU2MSW	Rs. 160/-	C-0955
8.	VU2XLZ	Rs. 320/-	C-1320
9.	VU3TFZ	Rs. 320/-	C-1328
10.	VU3RIH	Rs. 320/-	C-1416
11.	VU2GD	Rs. 320/-	C-1450
12.	VU3VNU	Rs. 160/-	C-1647
13.	VU3AKE	Rs. 160/-	C-1648
14.	VU3GNA	Rs. 160/-	C-1649
15.	VU3RDZ	Rs. 160/-	C-1651
16.	VU2VAB	Rs. 160/-	C-1668

ANDHRA PRADESH:

1.	VU2AWL	Rs. 320/-	C-0151
2.	VU2AAP	Rs. 160/-	C-0564
3.	VU2BSJ	Rs. 320/-	C-1147
4.	VU2MRY	Rs. 320/-	C-1236
5.	VU2MRN	Rs. 320/-	C-1237
6.	VU3FAM	Rs. 160/-	C-1426
7.	VU2VMM	Rs. 320/-	C-1434
8.	VU2ORL	Rs. 320/-	C-1438
9.	VU2ICC	Rs. 320/-	C-1444
10.	VU2JVH	Rs. 320/-	C-1482
11.	VU2DKX	Rs. 320/-	C-1545
12.	VU3KBT	Rs. 160/-	C-1590
13.	VU2CJW	Rs. 320/-	C-1607
14.	VU2KMG	Rs. 210/-	C-1610
15.	VU2FSX	Rs. 320/-	C-1617
16.	VU2JME	Rs. 50/-	C-1671
17.	VU2PVB	Rs. 160/-	C-1678
18.	VU2GGV	Rs. 160/-	C-1681
19.	VU2RDM	Rs. 160/-	C-1688

KARNATAKA

1.	VU2REC	Rs. 420/-	C-0208
2.	VU2MUD	Rs. 160/-	C-0601
3.	VU2USA	Rs. 160/-	C-0643
4.	VU2BCT	Rs. 160/-	C-1128
5.	VU3MSP	Rs. 320/-	C-1204
6.	VU3NAX	Rs. 160/-	C-1295
7.	VU3FEK	Rs. 320/-	C-1341
8.	VU2CUO	Rs. 320/-	C-1422
9.	VU2JBP	Rs. 320/-	C-1428
10.	VU2KOC	Rs. 320/-	C-1430
11.	VU2PNU	Rs. 320/-	C-1431
12.	VU3EYE	Rs. 160/-	C-1469
13.	VU3FEI	Rs. 160/-	C-1481
14.	VU3SDO	Rs. 320/-	C-1488
15.	VU2DY	Rs. 160/-	C-1512
16.	VU2SOB	Rs. 320/-	C-1513
17.	VU2LKJ	Rs. 160/-	C-1515
18.	VU2MTK	Rs. 320/-	C-1516
19.	VU3PDS	Rs. 320/-	C-1606
20.	VU3FDB	Rs. 160/-	C-1630
21.	VU3GWD	Rs. 160/-	C-1687

KERALA:

1.	VU2JKK	Rs. 160/-	C-0186
2.	VU2TE	Rs. 160/-	C-0501
3.	VU2HSM	Rs. 160/-	C-0681
4.	VU2FWW	Rs. 320/-	C-0835
5.	VU2DVD	Rs. 320/-	C-0887
6.	VU2KGN	Rs. 160/-	C-0944
7.	VU2DIC	Rs. 160/-	C-1067
8.	VU2PJP	Rs. 320/-	C-1073
9.	VU2DXC	Rs. 320/-	C-1258

10.	VU3MHM	Rs. 320/-	C-1300
11.	VU2RNW	Rs. 160/-	C-1338
12.	VU3GOG	Rs. 160/-	C-1339
13.	VU3NAS	Rs. 160/-	C-1340
14.	VU2JBM	Rs. 160/-	C-1342
15.	VU2JYN	Rs. 320/-	C-1375
16.	VU3BKV	Rs. 320/-	C-1398
17.	VU2GOQ	Rs. 320/-	C-1417
18.	VU2EAF	Rs. 320/-	C-1421
19.	VU2CPL	Rs. 160/-	C-1423
20.	VU2NLT	Rs. 320/-	C-1436
21.	VU2PMJ	Rs. 320/-	C-1442
22.	VU3NGD	Rs. 320/-	C-1447
23.	VU2EBI	Rs. 320/-	C-1455
24.	VU3SIL	Rs. 370/-	C-1490
25.	VU2IVG	Rs. 160/-	C-1491
26.	VU2ATB	Rs. 160/-	C-1517
27.	VU2KIV	Rs. 160/-	C-1519
28.	VU2KPJ	Rs. 320/-	C-1520
29.	VU2KCX	Rs. 320/-	C-1521
30.	VU2SBQ	Rs. 320/-	C-1522
31.	VU2UJB	Rs. 160/-	C-1523
32.	VU2LLN	Rs. 320/-	C-1524
33.	VU3PMQ	Rs. 320/-	C-1525
34.	VU2SEP	Rs. 320/-	C-1527
35.	VU2TH	Rs. 320/-	C-1529
36.	VU2RED	Rs. 320/-	C-1531
37.	VU2SBI	Rs. 320/-	C-1532
38.	VU2DRL	Rs. 160/-	C-1533
39.	VU2MMA	Rs. 320/-	C-1534
40.	VU3BBU	Rs. 320/-	C-1536
41.	VU2POS	Rs. 320/-	C-1537
42.	VU2HRG	Rs. 420/-	C-1538
43.	VU2TF	Rs. 320/-	C-1540
44.	VU2TCO	Rs. 160/-	C-1541
45.	VU2JKV	Rs. 320/-	C-1542
46.	VU2HRI	Rs. 320/-	C-1543
47.	VU2SXB	Rs. 320/-	C-1560
48.	VU2SHT	Rs. 320/-	C-1563
49.	VU2UJG	Rs. 320/-	C-1571
50.	VU3BMS	Rs. 100/-	C-1586
51.	VU2UJC	Rs. 160/-	C-1603
52.	VU2RGU	Rs. 320/-	C-1611
53.	VU3APS	Rs. 160/-	C-1623
54.	VU2MPE	Rs. 160/-	C-1628
55.	VU2ACQ	Rs. 160/-	C-1632
56.	VU2TMP	Rs. 160/-	C-1653
57.	VU2EMG	Rs. 160/-	C-1663
58.	VU2JLE	Rs. 160/-	C-1667
59.	VU2LUY	Rs. 160/-	C-1674
60.	VU2UFG	Rs. 160/-	C-1677
61.	VU3THR	Rs. 160/-	C-1684
62.	VU2DR	Rs. 160/-	C-1690

TAMIL NADU

1.	VU2DVP	Rs. 160/-	C-0423
2.	VU2CVP	Rs. 160/-	C-0429
3.	VU2WC	Rs. 160/-	C-0762
4.	VU2APS	Rs. 160/-	C-0814
5.	VU2ECY	Rs. 160/-	C-0923
6.	VU2CMN	Rs. 320/-	C-1108
7.	VU2SHL	Rs. 160/-	C-1119
8.	VU2VQL	Rs. 160/-	C-1120
9.	VU2RVK	Rs. 320/-	C-1182
10.	VU2PAJ	Rs. 320/-	C-1223
11.	VU2PKV	Rs. 160/-	C-1356
12.	VU2IRC	Rs. 420/-	C-1371
13.	VU3BVM	Rs. 160/-	C-1452
14.	VU3BBT	Rs. 320/-	C-1473
15.	VU2RTW	Rs. 160/-	C-1479
16.	VU2OGQ	Rs. 320/-	C-1497
17.	VU2SUB	Rs. 320/-	C-1500
18.	VU2SMM	Rs. 320/-	C-1549
19.	VU2HF	Rs. 160/-	C-1550
20.	VU2KSJ	Rs. 320/-	C-1551
21.	VU2JDN	Rs. 160/-	C-1573
22.	VU2YAA	Rs. 160/-	C-1580
23.	VU2ARQ	Rs. 160/-	C-1583
24.	VU2WDY	Rs. 160/-	C-1584
25.	VU2RBY	Rs. 320/-	C-1612
26.	VU2SWI	Rs. 320/-	C-1613
27.	VU2ODA	Rs. 320/-	C-1614
28.	VU2MBU	Rs. 320/-	C-1618
29.	VU2RMT	Rs. 320/-	C-1626
30.	VU2DXF	Rs. 160/-	C-1654
31.	VU2NGS	Rs. 160/-	C-1660

GUJARAT/RAJASTHAN/MAHARASHTRA/GOA

1.	VU2AKB	Rs. 210/-	C-0046
2.	VU2XX	Rs. 160/-	C-0137
3.	VU2XO	Rs. 160/-	C-0362
4.	VU2PCD	Rs. 160/-	C-0462
5.	VU2AJY	Rs. 50/-	C-0636
6.	VU2LEX	Rs. 320/-	C-0952
7.	VU2YOR	Rs. 320/-	C-1156
8.	VU2WWX	Rs. 160/-	C-1200
9.	VU3PMU	Rs. 160/-	C-1273
10.	VU2DDR	Rs. 210/-	C-1345
11.	VU2DFZ	Rs. 320/-	C-1415
12.	VU3PPN	Rs. 160/-	C-1578
13.	VU3SLL	Rs. 160/-	C-1579
14.	VU3ADG	Rs. 160/-	C-1641

WEST BENGAL/ ASSAM/ BIHAR/ ORISSA

1.	VU2PFD	Rs. 160/-	C-0704
2.	VU2KOV	Rs. 160/-	C-0949
3.	VU2PNB	Rs. 320/-	C-0973
4.	VU2RCH	Rs. 160/-	C-0976

5.	VU3NWZ	Rs. 320/-	C-1095
6.	VU2RPO	Rs. 320/-	C-1180
7.	VU3BHI	Rs. 110/-	C-1418
8.	VU2NSA	Rs. 420/-	C-1477

U.P/ MADHYA PRADESH/ PUNJAB/ HARYANA

1.	VU2RI	Rs. 160/-	C-0153
2.	VU2NB	Rs. 210/-	C-0063
3.	VU2GWL	Rs. 210/-	C-1042
4.	VU2MB	Rs. 160/-	C-1217
5.	VU3GAO	Rs. 160/-	C-1245
6.	VU2DUB	Rs. 320/-	C-1278
7.	VU2COZ	Rs. 320/-	C-1352
8.	VU2GSX	Rs. 210/-	C-1414
9.	VU2CKD	Rs. 320/-	C-1432
10.	VU2MTQ	Rs. 160/-	C-1595
11.	VU2OHY	Rs. 160/-	C-1636
12.	VU3SUA	Rs. 160/-	C-1679
13.	VU2DST	Rs. 320/-	C-1498
14.	VU3SHO	Rs. 160/-	C-1637

NOTE: Inspite of members not paying we are still mailing the magazine. This may have to be reconsidered.

LETTERS TO THE EDITOR

contd from from page 10.

From: N.Gururaj- VU2GUR
BANGALORE.

Dear Editor,

Thank you very much for publishing my Home Brew Pixie-II photos in H.R.N. Vol V. No.4. To say again that PC Board for Pixie was built by VU3CRJ, now VU2QX Om Jayakumar (JAY).

Thanking you, Best of 73's.

Sincerely,
N.GURURAJ

From: Ashraf- VU2AJQ
Kazarkode, KERALA

Dear Editor,

I was in the Control room alongwith VU2GUR for 1st two days and then I was sent to Mallipur in Jagatsinghpur dist 6 km away from Erasma and also very close to Paradeep. I erected a UMS VHF antenna on top of broken electrical post, but the length of the cable was small and Handy was hanging which was tied and all days I had QSO's only by standing outside the broken building. One day I went on mobile with medical team on a boat to nearby villages and we found a 10 year old girl in a state of shock

who lost all other 9 family members. She climbed up a coconut tree when flood was increasing. From there, she saw her parents and others are dying and sinking down into the water. She was in water catching the coconut tree and keeping her head out for 2 nights and almost 3 days. We took her to Mallipur nodal point (Relief Temporary Camp).

I am still remembering the dead bodies lying 200 meters around the camp, bleaching powders were put on the bodies. The bodies were there till I left the place. I was picked up by VU3SXE and VU2GUR on mobile on my last day of the stay. It was 2:30 early morning when they dropped me at the Control room.

73's

VU2AJQ- Ashraf

CHANGES SUGGESTED IN THE RULES OF AMATEUR RADIO SOCIETY OF INDIA

Item II/ 04.

Original: The Membership of the society shall consist of the following categories:

- i) Patron Members,
- ii) Honorary Patron Members,
- iii) Licenced Members,
- iv) Non Licenced Members, and
- v) Student Members.

Amendment The membership of the Society shall consist of the following:

- i) Patrons,
- ii) Honorary members,
- iii) Corporate members,
- iv) Associate members and
- v) Student members.

Reasons: The existing nomenclature, Patron members, Honorary Patron members, Licensed members and Non-licensed members does not sound adequate. As regards Corporate member, any other suitable prefix may be used, if found appropriate.

These terms have been used at a number of places in Rule Numbers 05, 06, 08, 09, 10, 12, 23. All these descriptions need to be changed as a consequence.

Item III/21

Original: The Governing Council shall consist of not less than seven members or such increased number as may be decided from time to time subject to a maximum of fifteen.

Amendment: The Governing Council shall consist of not less than twelve members or such increased members as may be decided from time to time, subject to a maximum of sixteen.

Reason: It is often difficult to achieve quorum with 7 members. Adjourning a meeting each time and reconvening it in case the quorum is not available, does not appear to be a good practice.

Item III/ 24

Original: The Governing Council (hereinafter referred to as the Council) of the Society shall consist of seven members as detailed below:

- i) A President,
- ii) A Vice President,
- iii) A General Secretary,
- iv) A Treasurer,
- v) Three ordinary members.

Amendment: The Governing Council (hereinafter referred to as the Council) of the Society shall consist of the following:

- i) A President,
- ii) A Vice President,
- iii) A General Secretary,
- iv) A Treasurer,
- v) to xi) Seven ordinary members, and
- xii) Outgoing Honorary Secretary.

Reason: In addition to having more members in the Governing Council for reasons explained above, it is necessary, for the sake of continuity of activities, to have the outgoing secretary as a member of the Council.

Item III/ 25/i

Original: The QSL Manager(s), Editor of the Society's Magazine, and the Liaison Officer shall be Ex-officio members of the Council and permanent invitees at its meeting.

Amendment: The QSL Manager(s), Editor of the Society's Magazine, the IARU Liaison Officer and the Awards manager shall be ex-officio members of the Council and permanent invitees.

Reason: The job of Awards Manager, presently assigned to Vice President, may have to be assigned to some one else under different circumstances. Hence this is being taken out from the duties of Vice-President, as included in Rule 32.

Item III/25/ii

Amendment: In case of difference of opinion among the Council members, matters shall be decided by a simple majority where ex-officio members shall also participate. In case of tie, the President's decision shall be binding.

Reason: This provision was not included in the Rules and hence is being added.

Item III/28/d

This clause is being deleted from here and the provisions under Rule 50 are being modified suitably to take care of these provisions.

Item III/36/f

Original: If he remains absent for 3 consecutive meetings without obtaining leave.

Amendment: If he remains absent on 3 consecutive occasions without informing the Council.

Reason: The trustees need not be subject to obtaining leave. It is enough if they inform the Council about their inability to participate in a particular meeting.

Item XI/50

Original: The Governing Council shall have power to make bye-laws for the conduct and government of the society and for the conduct and government of all committees, officers and agents of the society or for any other purposes whatsoever provided that such bye-laws shall not conflict with these Rules and Regulations. The Governing Council may delegate to such committee or committees appointed by it the power to make, rescind and vary the bye-laws relating to and for the work to be carried out by such committee or committees. The Governing Council will however, be entitled to revoke the said power.

Amendment: The Governing Council shall have power to make bye-laws for the conduct and governance of the Society and for the conduct and governance of all committees, officers and agents of the Society or for any other purpose whatsoever provided that such bye-laws shall not conflict with these Rules and Regulations. The Governing Council may delegate to such committee or committees appointed by it the power to make, rescind and vary the bye-laws relating to and for the work to be carried out by such committee or committees. These bye-laws shall include changes in admission fees, annual subscription, additional charges for the Society's magazine, if any, publication and exchange of QSL cards, etc.

The Governing Council will, however, be entitled to revoke the said power.

Reason: See remarks under Item III/28/d.

Ham Licence Denial

In the last issue an item regarding denial of ham licence was published. A Madras High Court order to the concerned authorities to issue a ham licence to K.R.Ahmed Mohideen who passed his exam in 1992 was issued to the W.P.C. Repeated requests for issue of licence was rejected earlier. Now the W.P.C. has issued him with a licence and call sign VU2AEM. Congratulations Ahmed and welcome to the band. This should be an example of perseverance. Try Try Try again.

NOTICE OF THE ANNUAL GENERAL MEETING OF THE ARSI

The Annual General meeting of the Amateur Radio Society of India will be held on the 19th March 2000 at the Garware Club House, Green Room at 1530 hours IST.

The agenda will be as under:

1. To read and pass the minutes of the AGM held on the 13th December 1998.
2. Presenting the report of the General Secretary/President.
3. To present and pass, if fit the balance sheet for financial year 1998-1999.
(Published in the HRN July/Sept 1999).
4. To appoint auditors for the financial year 1999-2000 and fix the remuneration.
5. To appoint (a) Editor for the HRN (b) QSL Managers for the Buros (c) IARU Liaison Officer (d) Awards Manager.
6. To discuss and adopt the amendments to the rules of the ARSI as published in this issue.
7. To discuss any other point that may be raised with the permission of the chair.
8. Vote of thanks.

Mumbai
5th January, 2000

Adolf B. Shepherd, VU2AF
Honorary General Secretary

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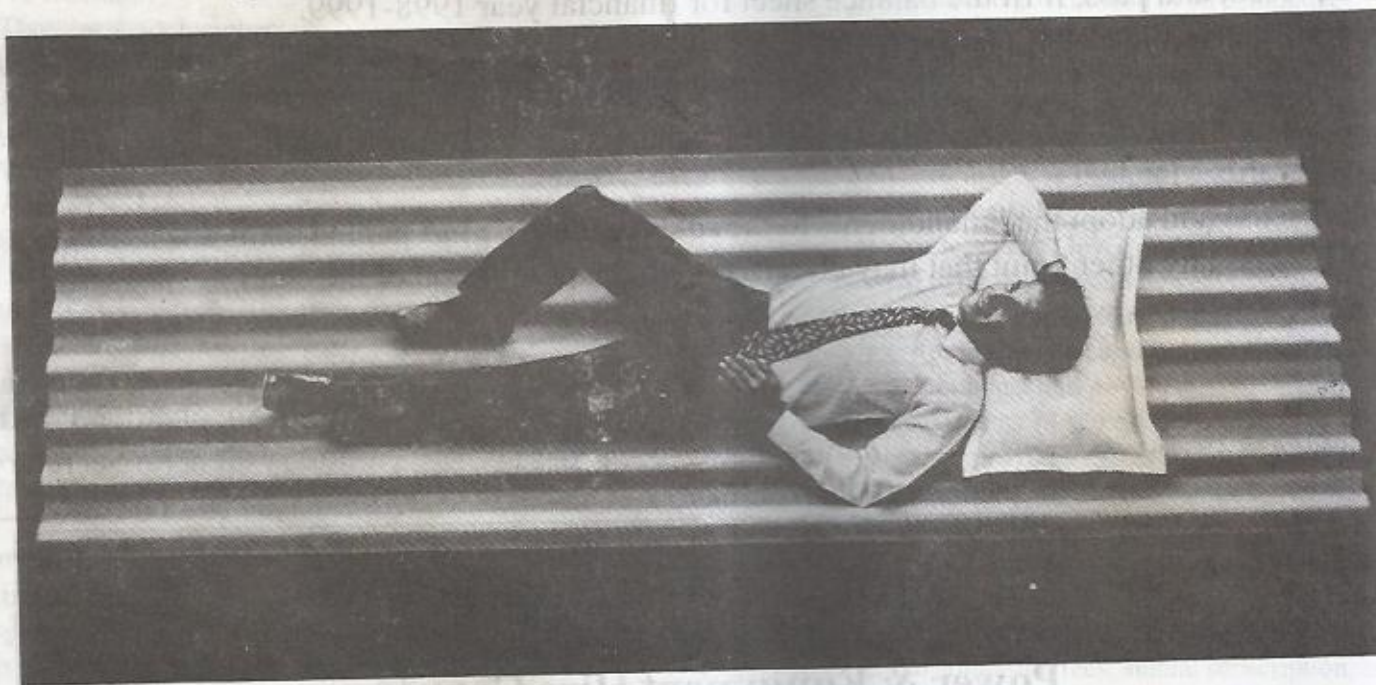


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Broken twisted coconut trees indicate the direction of the cyclone .



VU2JHM at Jambu



Jambu team volunteers.



Photos of the Super Cyclone that devastated Orissa.

Mother with the baby born after the storm.



Dr. Mamatha of ODMM & the Ham group.



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