

PAKISTAN AMATUER RADIO SOCIETY – LAHORE CHAPTER

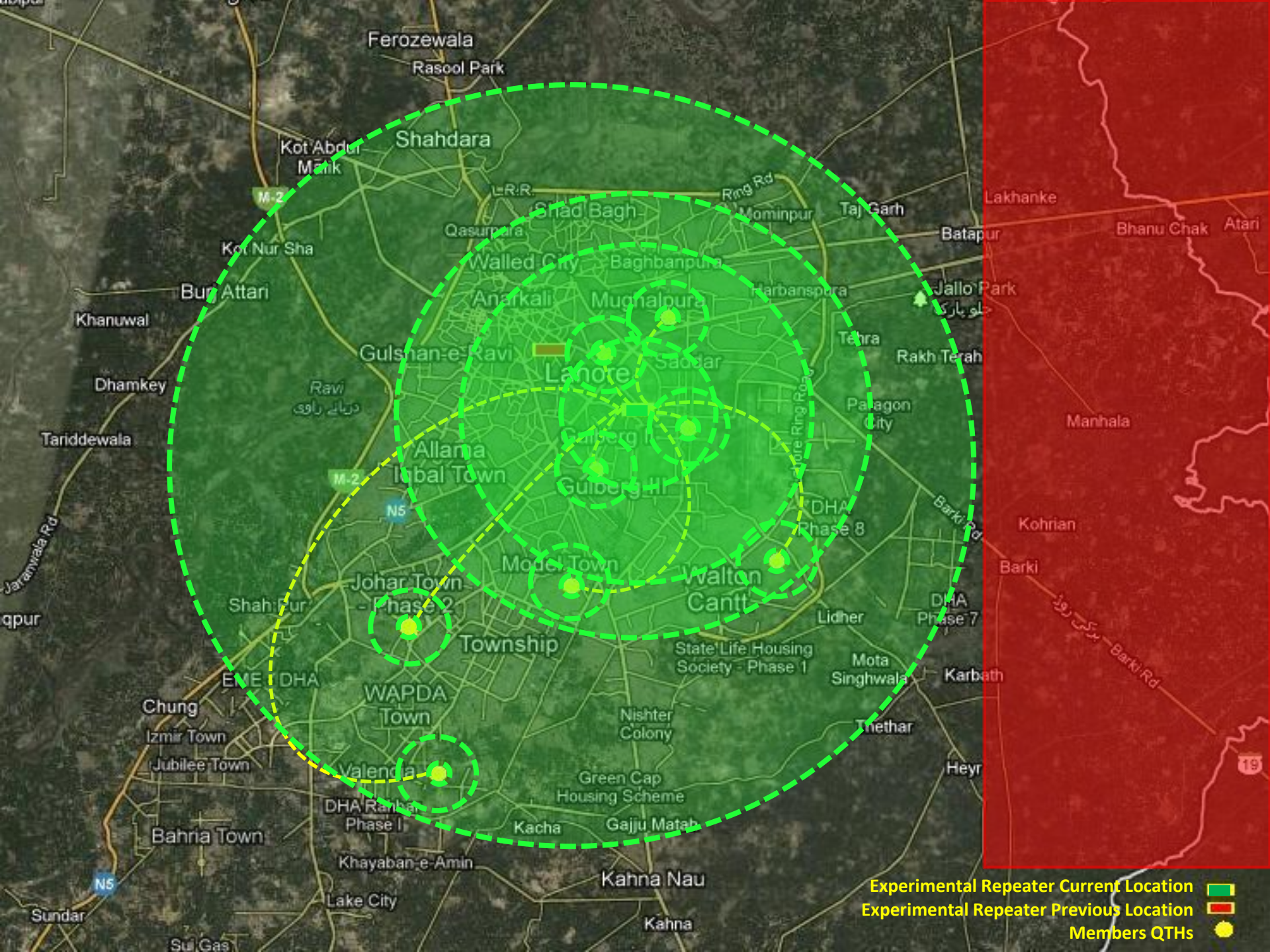
ACHIEVEMENTS AND UPDATES

Annual General Meeting 31st March 2013 – Islamabad










Experimental Repeater Current Location
Experimental Repeater Previous Location
Members QTHs

BACKGROUND

 Lima experimental repeater placed at PTV Station Lahore and antennas mounted on 350 ft high tower


 AP2UK looking after the upkeep of Lima experimental repeater

 Senior hams practicing this hobby but either most of them were dormant or were using HF and hence were not very much inter connected and hence the Lahore experimental repeater upkeep was not at desired levels merely because of the fact that not many were dependent on it




NEW ENTRANTS GET TOGETHER – INSTANT ACTION

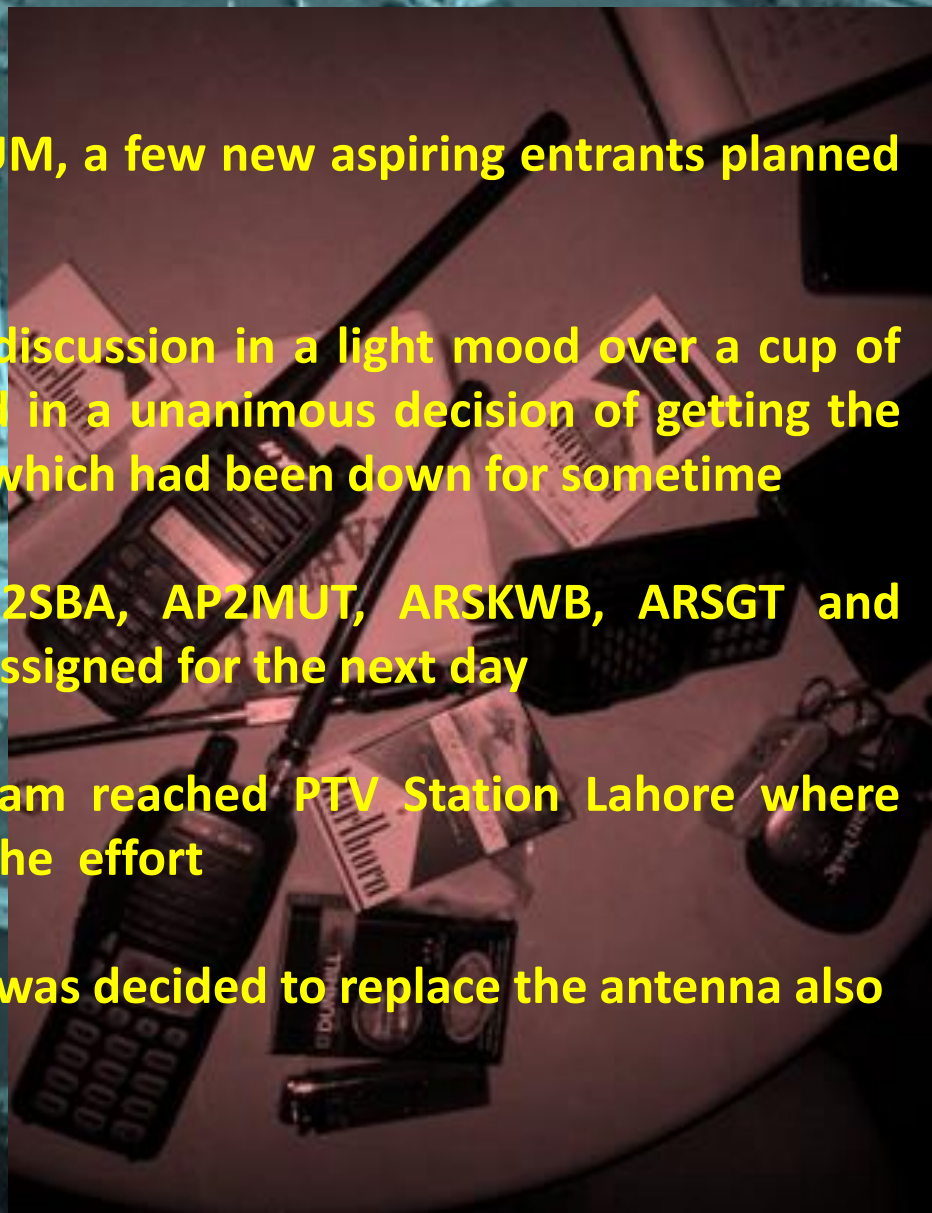
 On the encouragement of AP2AUM, a few new aspiring entrants planned a meet with AP2SBA and AP2MUT

 First meeting resulted in a long discussion in a light mood over a cup of coffee on 2nd Nov 2012 and ended in a unanimous decision of getting the Lahore experimental repeater up; which had been down for sometime

 Action team comprising of AP2SBA, AP2MUT, ARSKWB, ARSGT and ARSDD was made and tasks were assigned for the next day

 On 3rd Nov 2012, the action team reached PTV Station Lahore where AP2UK was present to coordinate the effort

 ARSGT had arranged riggers as it was decided to replace the antenna also



NEW ENTRANTS GET TOGETHER – INSTANT ACTION

 Cable was soldered to the new antenna which was procured by pooling in of funds and AP2MUT took the lead and started ascending the 350 ft tower along with one rigger

 New antenna was attached at the desired location on the tower

 AP2UK set on his speciality and after much required work, finally the experimental repeater was back on line

















EVOLUTION OF YAGI

📻 With in a month the repeater went down and the enthusiastic newbies were impatient enough to think like a true ham

📻 Seniors were consulted and AP2AUM recommended to try a home made antenna

📻 On 2nd Dec 2012, ARSDD, ARSKWB and ARSGT got together to make a YAGI

📻 ARSDD had already sourced all the material and tools required for this experiment

📻 ARSDD very skillfully turned PVC and copper pipe into a 7db gain antenna – and Lima's beloved "EMP Canon" came into being

📻 First test was so encouraging that from ARSDD's QTH (approx. 17 aerial KMs away from experimental repeater's QTH at PTV Station) QSO was as crisp as can be









YAGI AND BEYOND

📡 So Rs400 worth of antenna gave further flame of inspiration to the whole group

📡 As soon as this successful attempt was shared with AP2AUM, encouragement poured in for replicating the same and installing YAGI at couple more SWLs' locations and try to get Murree experimental repeater

📡 Meanwhile, Lahore experimental repeater went down again

VOX REPEATER EXPERIMENT

 AP2SBA, ARSDD and ARSAB met up to try and set a repeater with the help of two handy sets and a headset (which was loaned by AP2AUM for this experiment)

 It proved to be a successful one



NEW LIMA EXPERIMENTAL REPEATER

- After exhaustion of various options, it was decided to go for the self help option again and to source a new repeater by way of arranging funds via voluntary member donations
- After lot of deliberations and research, ICOM IC-FR 5000 VHF was finalized
- Funds were pooled in and ARSGT and ARSMUT negotiated a good deal
- Most important was the location and security of the newly bought asset and also a continuous source of power to it
- Qurban line was an ideal solution to this dilemma, its free of cost and secure location
- Tx antenna was set at 60 feet and Rx set at 110 feet

ICOM





FUTURE PLANS AND SUGGESTIONS

- Height of antennas attached with the new Lima Experimental Repeater to be increased; Rx to be increased from 110 to 115 feet and Tx from 60 to 85 feet
- To deploy helix cable on Tx of Lima Experimental Repeater
- For an interrupted power supply, plan is to use solar power panels as Lima weather supports it
- IDAS digital capability to be added in Lima Experimental Repeater
- PARS to facilitate time lag reduction for new hams to get PTA license
- Training workshops to be made a regular feature
- Training workshop to be conducted in Lahore also