

**Minutes of Meeting
GMRT**

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Meeting	Meeting related to In House CMS development
Held on	3rd JUNE 2014 Time : 3.00 PM to 4.30 PM , GMRT conference room
Attendees	NGK, SN, CPK, SNK, SSS, DBB, NMS & RRU
Agenda	In House CMS development
Highlights and items discussed	<ul style="list-style-type: none"> ◆ CPK updated that <ul style="list-style-type: none"> - He will be raising indent for 3 CISCO switches for Antenna base. - Shielded box design for MCM card & N/W switches has been frozen. - Waiting for RFI report , After receiving report will go for mass production. - We will have to hire person which will assemble component inside shielded box. - 72 MCM cards tested. * NGK suggested to start process for purchasing 3 server class machine, monitor for GUI development purpose & external hard disk. ◆ RRU updated that <ul style="list-style-type: none"> - Modified Online_V2 code for perror so that error related to creating thread can be traced. This code will give some clue about what went wrong with thread creation. - Separated the mcm thread creation from main.c in a separate file mcm.c & mcm.h. MCM thread creation is done in mcmsystem function written in mcm.c. * NGK suggested whether some workshop in Multi threading will help. ◆ NMS updated : <ul style="list-style-type: none"> -Working on FE controlling, will implement front end box control commands. * NGK – Web based GUI with password enable login. SNK suggested Sqlite can be used for that. ◆ SSS updated that he is writing script for point source image. <ul style="list-style-type: none"> - Discussed mask appearing problem on online display. * NGK suggested to start with CASA script using calibrator. ◆ SNK updated that correlator base-band display is ready. J Roy is using it. <ul style="list-style-type: none"> - Every 10 second data is read from shared memory. Shared data can be stored every 1 minute. - SNK is storing two MCM data in data base. *NGK suggested to start working on TAX output. As well as web based GUI along with NMS. * NGK suggested to log data of 5 antenna in database. ◆ DBB - <ul style="list-style-type: none"> * NGK suggested that interfacing with Python & Online_V2 can be finalized. Work on Astronomical library NOVAS/ASTROPY, write some sample interface which can calculate LST,AZ-EL, Solar coordinate etc. ◆ Nayak ji updated that : <ul style="list-style-type: none"> - M tech student from SIT are interested in doing project on C&M. They will be

working mostly with TRDCC.

- ◆ NGK suggested simple procedure can be implemented in Python.
SNK suggested Commands related to scanning can go in Online_V2 like scan AZ, scan EL, scan RA & scan DEC.

Points from Meeting in Lab (NGK/CPK/NMS/RRU) Time 12.00 PM– 1.00 PM

1. OF system MCM can be combined with sentinel system MCM. Test it in long run for any error.
2. Serial port of combined MCM (sentinel+OF) can be programmed for communication with FPS system, if some error crop up, then FE MCM can be used to communicate with FPS system.
3. Sentinel MCM can have backup communication channel to other sub-system in case of some emergency.
4. Alarm & state machine cases to be discussed.