

Minutes of 9th Technical Advisory Committee (TAC) Meeting of Comprehensive Transportation Study (CTS) - Hyderabad Metropolitan Area (HMA) held on 09-01-2012 at 3:00 PM in Conference Hall, HMDA

Participants – List enclosed

1. The Chief Engineer, HMDA welcomed the Chairman of TAC, Metropolitan Commissioner HMDA, Members, Special Invitees of TAC and Consultants. He informed the agenda items to the committee and with the permission of the chair requested the consultants to present the status of study.
2. The presentation was made on Action Taken Report on 8th TAC, Progress of the Study, Cordon Lines survey status, Base year population & employment estimate, Home interview survey status and Immediate Action Plans.
3. **Action Taken Report on 8th TAC**, the consultants submitted that;
 - i. To a query from Chairman, Consultants confirmed that specific suggestion on Traffic Zoning, Sampling of Households, Population & Employment Estimate, Survey Locations have been incorporated.
 - ii. As per the advice of TAC, keeping population size less than 50,000 in each TAZ, the total TAZ's are reworked out to 695 within HMA against earlier 674 TAZs, with 43 external TAZ's the total TAZs are revised to 738 zones.
 - iii. Briefed the details of Working Paper on "Traffic Zoning, Sampling Technique & Sample Generation" which was prepared duly vetting to the experts. The same was submitted to HMDA in September-2011.
 - iv. In Screen & Cordon Surveys, agreed to consider more survey locations along operational part of ORR, across Musi Bridge to capture the cross movement
 - v. The Traffic Volume data collected using Video Surveillance Technology was used while conceptualizing & developing Intersection Improvement Plans and in analyzing the Traffic Movement/Queue Formulation, etc.,
 - vi. Hosted the CTS website www.ctshma2011.com on 18 Aug 2011 and informed that 1,200 hits & 32 email suggestions were received so far.
 - vii. In HIS review agreed to increase % of samples in rural areas once they complete significant % of the expected 32,000 HH samples. Also agreed to consider Pure Random sampling in core area & systematic sampling in rural areas.

With the above Action Taken Report on 8th TAC was approved.

4. On the **study progress**;

- i. Consultants thanked Metropolitan Commissioner for his support in getting provisional figures of Population Census and expediting Police support for conducting roadside interview survey in Medak District.
- ii. The consultants informed that major tasks such as Traffic Zoning, Zoning Atlas, preparation of Base Map which includes various layers like Boundaries, Transportation Links, Base Year Population of HMA, Secondary Data collection are completed.
- iii. On the query from members, why electoral list was considered instead of recent census figures for population estimate. The Consultants clarified that the recent census figures are available upto Municipality and Mandal level. For estimating population at TAZ level, which far finer than Mandal, the approach of estimating voters using Jan 2011 electoral list, then estimating households and finally population is being adopted as agreed in the last TAC meeting.
- iv. With regards to Field Surveys, consultants informed that, the surveys and proposals pertaining to IAP are completed (except for off-street parking studies of High Court), TVC and Origin - Destination Surveys at 16 Locations, Network Identification and Tracing are completed.
- v. Informed that House Hold, TVC, Occupancy Surveys at Screen Lines/ Inner Cordons is in progress.
- vi. Further stated that, Speed & Delay, Inventory & Interview based Surveys are to be initiated.
- vii. Committee members appreciated the incorporation of latitude and longitude of each household surveyed in HIS Performa for better appreciation and credibility of the survey.
- viii. On HIS experience of apparently not getting all occasional/non-regular trip information from the respondents, Members opined that activity based modeling using trip chaining would not have been meaningful.
- ix. The Commissioner enquired about the lag in schedule, the Consultants informed that in spite of their best efforts in September and October, they could not carry out various tasks of the study, especially field surveys and consultations due to agitation in city. Due to which Activity - 2 i.e., IAP and other surveys got delayed by a month. They agree to catch up the schedule for other activities.

5. On the **Immediate Action Plan**;

- i. Consultants informed that, after conducting necessary surveys they had prepared the draft proposals pertaining to IAP components (excluding off- street parking) and then they had discussions with Stake Holders such as GHMC, APSRTC, Traffic Police - Hyderabad, Cyberabad on IAP Proposals and fine tuned them. The IAP reports are submitted to the HMDA and concerned Stake Holders for consideration and to TAC members for comments / suggestions.
- ii. The Immediate Action Plan presentation covered the following:
 - Intersections Improvement Plan;
 - Corridors Improvement Plan;
 - On-Street Parking Management Plan;
 - MGBS Terminal Improvement Plan;
 - Area Traffic Management Plan; and
 - Off-Street Parking: Demand & Characteristics
- iii. On the IAP presentation, TAC made the following major Observations/Comments:
 - a. On Area Traffic Management Plan, Metropolitan Commissioner suggested the Consultants to workout the economics on new proposals to further explain the stake holders the benefits in implementing the proposals.
 - b. Addl. Commissioner, GHMC informed the committee on the actions already underway by GHMC regarding implementation of the proposals given by the Consultants. However, he emphasized on difficulties related to implementing proposals which requires land acquisition.
 - c. Representative from R&B informed that they are contemplating a flyover proposal covering Narasapur intersection and Fathenagar intersection as a long term plan.
 - d. It was informed that in view of the constraints in widening of the road between 6No. Bus top and Sri Ramana Theatre proposal of a flyover is under consideration
 - e. During the discussions on Corridor Improvement Plan, MC, HMDA suggested GHMC to examine the bottleneck at the approach of Hi-tech City flyover, near Shilparamam to mitigate this problem as suggested by the study.
 - f. Proposal of Cycle tracks shown in some Corridor Plans, was felt to be isolated treatment by some members. However, MC, HMDA suggested to explore providing such facility/concept in other corridors in view of the National Policy of promoting non-motorized traffic.

- g. Traffic Official, Hyderabad suggested providing Pre-Paid Auto Parking facility within MGBS area for enhancing convenience of passengers.
- h. Members suggested Consultants to upload small clippings of video files showing critical traffic movement at selected location on website.
- i. Members suggested the consultant to properly rename the title in the plans pertaining to corridor - 5 as Shivam Junction to NCC Junction to avoid confusion.
- j. Suggestion was given to provide Zebra crossing for the junction located in North-East of Neredimet intersection.
- k. Members also suggested of examining the better pedestrian connectivity between MGBS and bus stops on NH-9 close to main entry of MGBS.
- l. GHMC was requested to the proposals suggested in plan of closing North-East Gate of JNTU for vehicular traffic.
- m. MC, HMDA suggested CE, HMDA to send the Junction Improvement Plans other than GHMC, R&B to the concerned local agency for their consideration.
- n. Based on off-street parking surveys at Ameerpet Market, Kandaswamy Market and Begum Bazaar, Consultants observed that, the short term parking requirements are very high and thus viability of Off-Street parking needs to critically examined.
- o. CE, HMDA informed the committee that, to save the time of the TAC, with prior permission of Chairman TAC, a Pre meeting was organized with the Technical Experts of TAC on IAP Plans & Proposals for detailed study along with Prof Sri. Raghava Chary on 08-01-2012.
- p. Further, CE, HMDA informed committee the following major suggestions/comments on IAP reports received from the technical experts of TAC who could not attend this meeting in person.
 - Dr. Nagbhusan Rao, requested to check practical application of suggested circulation plan of buses within MGBS in view of alignment of existing boarding and alignment platforms, conflict between pedestrian and bus movements, and informed that earlier Rangamahar Bridge was proposed considering egress movement of bus traffic.
 - Sri P.R.K. Murthy suggested the consultants to look into current demand and future demand at MGBS for additional platforms. In corridor Improvement plans he has suggested proper segregation of cycle track, auto stands and on-street parking stretches by a physical barrier for effective utilisation. Also suggested to provide pedestrian signal phase in signal cycle time at junctions in all IAP locations which have high pedestrian volume counts. Observed that,

Hawkers' zone road side may encourage Motorized Vehicles to stop on road side. This will affect smooth flow of traffic.

- Sri. Prof Prasad suggested to consider at least 13 m radii in the corners at intersection for free turning of trucks and buses. Signal Designs to be included in Intersection Improvement Plans. Corridor LOS Analysis with and without On-Street parking has to be analyzed and considered in On-Street Parking Improvement Plans and Area Management Plans.

CE, HMDA informed that the comments of the Technical Experts of TAC are forwarded to the Consultants and has requested the Consultants to examine and consider these suggestions for necessary incorporation in the IAP.

6. Dr. S Raghava Chari, special invitee informed Chairman of the TAC, the rigorous technical review already done by TAC experts on technical aspects of IAP design/ drawings submitted by the Consultants. The proposals are technically sound and should be taken up for implementation during the tenure of this project. The Consultants may require to improve, make minor changes in drawings/proposals if required, during the implementation by the Stakeholders

7. He also expressed that, the average cost of junction improvement has gone up exponentially with time and suggested in implementing the proposals at the earliest.

8. The Chairman and TAC expressed their satisfaction on the coverage and proposals made in the IAP. Further, suggested the Consultants to focus on the other activities of Comprehensive Transportation Study that lead to development of intended long term transportation strategies for HMA as per schedule, and to come out with policy issues pertaining to IAP which can be taken up in the ensuing UMTA meeting.

The Chairman thanked all stake-holders for their involvement and keen interest shown in this project.

Sd/-
METROPOLITAN COMMISSIONER
HMDA

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Chief Engineer
HMDA

List of officers Present in 9th TAC meeting on Comprehensive Transportation Study (CTS) for Hyderabad Metropolitan Area (HMA).

Client:

1. Sri Rajeshwar Tiwari, IAS, Metropolitan Commissioner – Chairman, TAC
2. Sri K. Dhananjaya Reddy, Additional Commissioner (Planning and T&T), GHMC
3. Smt. L Vijaya Lakshmi, Dy. CTM, APSRTC
4. Sri V Madhwa Raja, Chief Engineer, HMDA, Convener

Invitees:

1. Sri S.Chandra Sekhar Reddy, IPS, Dy. Commissioner of Police (Traffic), Cyberabad
2. Sri D. Lakshma Chary, Dy. C.E., R&B- NH(D), GoAP
3. Sri A V Srinivas, Inspector (Admin), Traffic, Hyderabad
4. Prof. Dr. S Raghava Chari, Traffic & Transportation Expert

Consultants:

1. Dr. T. S. Reddy, Team Leader
2. Mr. Pradeep Kumar, Associate Director, LASA and Transportation Planner
3. Mr. Akshat Jain, Transport Modeller
4. DR. N. V. Rao, Executive Director, DRS, Hyderabad
5. Dr. S D Badrinath, Environmental Specialist
6. Mr. K Bhavnarayana, Traffic Engineer
7. Mr. Sasidhar Karwadi, Traffic Engineer