

Bangalore Metro Rail Corporation Limited
3rd Floor, BMTC Complex, Shantinagar, KH Road,
Bangalore 560 027.

EXPRESSION OF INTEREST (EoI)
FOR RAINWATER HARVESTING AND COMMERCIALIZATION

1. Bangalore Metro Rail Corporation Limited is a joint venture of Government of India and Government of Karnataka executing Metro rail project in Bangalore. Phase I of the project consists 42.30 km out of which 33.42 km is elevated viaduct with 33 stations. The viaduct is supported on concrete piers mostly at 28m apart. Rain fall on viaducts is brought to the ground level by down take pipes installed in each pier. There will not be leakages of fuels or oil on viaduct as Metro trains run on electric power. Metro coach doors are closed while moving therefore littering will not occur on the viaduct. The viaduct is cleaned regularly. Hence rainwater collected from the viaduct after filtering will be potable.

The length of the elevated East - West corridor is 13.22 Km and North - South corridor is 20.20 Km. Eastern reach & Western reach and Northern reach & Southern reach elevated corridors are separated by underground corridors. The top width of the viaduct is 10m.

2. Given the length and breadth, the viaduct is a large receptor of rainwater. Average annual rain fall in Bangalore is 960mm spread normally from June to November. BMRCL is exploring the possibility of public private partnership (PPP) in harvesting rainwater which could be supplied to bulk consumers like apartments, hotels, commercial complexes, local governments, etc on commercial terms.

3. BMRCL invites firms & Non-governmental organizations possessing proven technical knowhow and infrastructure capabilities to (a) harvest the rainwater coming from the downpipes of the piers in collection tanks of suitable size at convenient points, (b) treat the water for drinking purposes and (c) supply the potable water on commercial terms to bulk consumers. International firms can express their interest as a joint venture with local firms and local firms should have at least 51% participation. Concession period is 15 (fifteen) years and the selected concessionaire shall design and put up system to harvest, collect, treat rain water and to sell on commercial terms. After concession period, the concessionaire will hand over the created infrastructure in working condition to BMRCL. Land shall be made available for putting underground pipes and for construction of underground tanks for collection on minimal basis.

4. Interested firms & Non-governmental organizations that have experience in rainwater harvesting are required to express their interest by submitting the following:
 - (a) Brief technical proposal for harvesting rain water and utilizing it on commercial terms
 - (b) Experience in similar rainwater harvesting and its commercial utilization, if any.
 - (c) Technical qualifications and experience of the team members

The expression of interest shall be submitted in a sealed cover super scribed as “Expression of interest for rainwater harvesting from the viaduct and its commercialization” along with necessary documents to MD BMRCL by 15.00 hours on 27th December 2011. If the day happens to be a public

holiday, the next working day will be the day for submission. BMRCL will evaluate the proposals and short-list the firms within 3 weeks from the date of receipt of EoIs. Firms giving an efficient and feasible methodology of rain water harvesting, transportation, storage, commercialization of rain water and having technically qualified persons shall be eligible for short listing.

5. The short listed firms would be offered further 30 days to conduct detailed technical and commercial studies. The short listed firms shall submit final bids in sealed envelopes on a day that shall be intimated later. The bid shall contain technical proposal and financial offer. The technical proposal shall describe the engineering system in detail. The financial offer shall give the amount that shall be paid to BMRCL annually. The annual amount will increase by 2.5% at compounded rate every year.
6. While intimating the shortlisted firms to submit their bids, BMRCL will issue details on bid submission and evaluation.
7. BMRCL reserves the right to accept or reject any or all the proposals without assigning any reason whatsoever. BMRCL reserves its right to verify the details furnished by the firms.
8. The EoI is published on our website <http://www.bmrc.co.in/tenders.html> from 12th December, 2011. Any clarifications regarding Expression of Interest may be sought from doddihal@bmrc.co.in before 22nd December, 2011.

Chief Engineer (R4)
BMRCL