



May 06, 2019

NVS Reddy, IRAS

Managing Director Hyderabad Metro Rail Ltd.



Ideas pursued with passion and courage of conviction make 'impossible' possible...



Hyderabad Metro – a saga of Grit, Guts & Gumption

- To follow the rut is easy & comfortable
- A path breaker needs guts, courage of conviction, perseverance & struggle
- Failure management & peak performance
- World's largest Metro project in PPP mode
- Highly ambitious first of its kind in the world
- 200 Metro Rail systems: < half-a-dozen in PPP
- Nobody has done it any where in the world
 - : can't be done



The Hindu, Dt. 24.09.2008

Times of India, Dt. 08.01.2009

Metro Rail: future actions to be subject to court order on petition

High Court adjourns case to October 30

Legal Correspondent

HYDERABAD: All future actions with regard to the implementation of the Hyderabad Metro Rail Project will be subject to further orders in the miscellaneous petition filed in the plaining that the public was main writ petition filed re- not informed about the progarding the Hyderabad Metro ject and the environmental Rail Project.

High Court comprising Justice G.Raghuram and Justice vis Legislative Assembly and P.V.Sanjay Kumar gave this clarification while adjourning gar. Another Division Bench the case to October 30.

a miscellaneous interlocutory to file a counter affidavit. In petition seeking a stay on all the present miscellaneous further actions to implement petition, the petitioners said petition.

the Hyderabad Metro Rail that the quarters at Malakpet Project.

Objections

Ramachandriah and O.M.Dibara filed the writ petition comclearance not obtained by the A Division Bench of the authorities. They complained about the security angle vis-athe danger to the Hussainsaadmitted a writ petition in Au-The Bench was dealing with gust and asked the authorities

were being vacated and land acquisition proceedings initiated in Chikkadpally and all It may be recalled that C, this inviolation the A.P.Tramways Ordinance.

Request for time

The Advocate-General requested time to file a counter affidavit. The Bench observed that the case would be listed on October 30 and before that the counter affidavits are to be filed and pleading completed.

The Bench said that the actions, if any, taken by the government of Andhra Pradesh or Metro Rail Corporation will be subject to orders in the

Is it goodbye Metro Rail?

Hyderabad: B Ramalinga Raju's Rs 5,000 crore fraud has rung the death knell for the Hyderabad Metro Rail project. While Delhi metro chief may have sniffed a 'political scam' months ago, the government was batting for Raju until Wednesday. The government is now "weighing options" whether or not to continue with Maytas Infra as the project's developer.

the government was looking into this "serious issue" (Raju's fraud confession) and that it would take a "decision" soon. Industry sources indicated the government may now terminate Maytas Infra's contract and go for a fresh bid. Only this time, there wouldn't be many interested parties to take up the project given the market condition, industry sources say.

Eroding Maytas's chances to continue with the metro project is the fact that the developers are nowhere close to making a financial closure. In fact, Satyam's aborted bid to acquire Maytas was largely viewed as an exercise to show strong collaterals to raise money from the market as debt for the metro rail project. Industry sources had then said that Satyam's balance sheet would come in handy to raise funds for the Rs 12,000 crore project. "As against a land bank (Maytas Infra owns land along the three corridors of the project), a Satyam balance sheet is a stronger collateral, much more secure and more valid," an industry source had then said. The same Satyam balance sheet has now wiped out Maytas's chances to continue.

Besides, the state could also be running out of time. "As per the bid agreement, the financial closure should have been done within 180 days (of winning the bid). However, the bid was won by Maytas on July 22 and six months hence there is no sign of the closure," says a senior industry source.

Metro rail, the three corridor and 71 km project, is estimated to cost Rs 12,000 crore and industry experts say that the Maytas Infra led consortium would have to raise at least Rs 10,000 crore as debt from the market including loans from banks and financial institutions. Maytas Infra is not claiming a single penny under the 'viability gap funding' and will, on the contrary, be paying the government for building the project. In return, it has got 296 acres of prime land Senior state officials confirmed to TOI that from the government for commercial ex-

> However, given the plummeting real estate valuations, this asset will serve as a poor collateral. "The project will not happen. The entire guarantee (to raise money) was coming from Satyam. But how will they do their debt structuring now," questioned an industry senior, adding that either Maytas will withdraw from the project itself or the government would terminate its contract.

> But the project has now hit a road block since no other industrial house would be in the mood to take it up. "Any big industrial house will think twice since the entire project was banking on real estate. We have to rervisit the entire financial modelling, the financial presentation and projection and then take a call," said an official of an infrastructure firm. He said that if the government were to approach other firms, they would consider it but keeping in mind the totally changed market which is a far cry from how comfortable it was six months ago, it would be difficult to find a willing party. "The ambiguity in the concession agreement too needs to be revisited and the planning commission should also understand they must view (the projects' viability) from the lender's perspective and not just the government perspective," the official said.

> Maytas Infra is now scheduled to pay the government Rs 50 crore in March 2009.



Business Line. Dt. 06.03.2009

Hyderabad Metro Rail project in limbo

May miss financial closure deadline

Our Bureau

Hyderabad, March 5 With the six-month deadline of March 18 for achieving financial closure for the Rs 12,132-crore Hyderabad Metro Rail Ltd, ticking by, consortium led by Maytas In-

er of the project, in all certainty, the company and its consortium members are RESULT DELAY unlikely to achieve financial closure.

the deadline.

Bharat Ventures Ltd, IL&FS and Ital Thai. IL&FS was leading the loan syndication This move coincided with for the project.

Asked about the implications of the delay, the source Chairman of the board, exitsaid they will have to fall back on the agreement and necessary legal counsel. As things stand today, the very execution of the project is 2008, continued their downnow uncertain. With the gen-slide to double digits after eral elections slated for some of the large contracts April-May, no decision is fell through. The scrip closed likely on the follow-up ac- the day at Rs 34.45 (previous

According to the agreement, Maytas Infra has to pay Rs 50 crore on the date of financial closure and also furnish the Government guarantee of Rs 240 crore.

Sources said the matter of there are indications that the funding has become much more difficult for Maytas Infra Ltd is now certain to miss fra and its partners given the turmoil the company is fac-According to sources in ing after the attempt by Mr the Andhra Pradesh Govern- B. Ramalinga Raju, founder ment, which is a co-develop- of Satyam Computer and Maytas, to acquire the latter.

The third quarter financial results of the company, ear-The consortium led by lier slated for the last week of Maytas Infra, includes Nava January, have not yet been announced as the company sought extension of time. some of the Board members. including Mr R.C. Sinha, ing the company.

> The company shares, which ruled at peak of over Rs 750 crore in first half of close Rs 35.90).

The Hindu. Dt. 07.07.2009

Uncertainty continues over metro rail

Centre to fund projects up to Rs. 1 lakh cr.

M. Rajeev

HYDERABAD: The State government is in a pagusort estuation over Hyderalsad's metro rail project following the Centre's decision to finance infrastructure projects up to Rs. 1 lakh cross through the India Infrastructure Finance Company Limited CiffCL3.

The Centre had unnounced that the India Infrastructure Finance Company Limited would refinance 60 per cent. of bank loans obtained for projects in critical sections ticken up in public private partnership mode over the next 15 to 18 months.

Financial closure

The move is aimed at enabling the private sector meet requirements like achieving financial closure and putting the projects on the fact truck.

Though the officials concerned are keen on taking advantage of the move to secure funds for the metro rail project, there could be no forward movement until a final decinion is taken on retaining the Maytas Infra-led consortium as the contractors.

Dim prospects

The project could be put on the fast track if Maytas achieves financial closure which, officials claim, is bin-

In the alternative, the government should consider other options like calling fresh buts from pre-qualified blebdnira.

- Officials keen to cash in on move to secure funds
- . Whether to retain Maytas-led group or not holds key

Uncertainty fooms over the project as Maytas could not schleve financial elecure in spite of the opposion of more than three months given by Maytas, which opted for corporute debt restructuring to service its previous loans, achieve financial cleaure for such a massive project?" a semicer offsichal aubect.

No serious effort

Officials are also provided that Chief Minister Y.S. Rajarekliars linckly was yet to take a doublish on the prestigience project.

Theirs was no serious effort to resolve the uncertainty surrounding the timeframe for commencement of work on the metro rail project.

Timeframe

Given the 15-18 month timetrame announced by the Centre for obtaining 60 per cent refinance on bank loans. it was imperative for the goveryiment to act fast for secarring the assistance before other States forward their bids. "Time is cips for taking a decision on the project or else the State will lose the advantage," the official said.

Business Standard. Dt. 08.07.2009

deal

Andhra. cancels Maytas metro deal

BS REPORTERS Hyderabad, 7 July

The Andhra Pradesh gov-ernment has cancelled the concessionaire agreement for the Rs 12,132-crore Hyderabad Metro Rail Project, a showpiece public-private partnership, awarded to Maytas Infra Limited, the listed company run by Teja Raju, older son of Satvam Computer Services Limited founder B Ramalinga Raju.

Announcing this today, Municipal Administration and Ur-ban Development Minister Anam Ramnaryana Reddy said the deal was cancelled because the company failed to achieve financial closure although three months had lapsed from the March deadline

Reddy clarified that the gov-ernment will still take up the ernment will still take up the project and will announce a de-tailed plan on July 13. Maytas Infra Chairman K

Ramalingam met Chief Minister Y S Rajasekhara Reddy recently but failed to give an as-surance on the financial closure or performance guarantee.

Maytas had paid the state government Rs 11 crore as an initial amount and provided Rs 60 crore as a bank guarantee after signing the concessionaire agreement in September last year. Under the agreement, the company forfeits this money if the projec failed to achieve financial closure by March 17, 2009.

Maytas Director Ved Jain told Business Standard he was not aware of the development. Let the official communica-

FROM Andhra cancels Maytas metro

The Hyderabad metro project attracted national attention when the Maytas-led consortium bagged it by offering the government royalty of Rs 30,311 crore over a contract period of 35 years. The consortium comprising Maytas, Nava Bharat Ventures Limited, Italian-Thai Development Plc and IL&FS also rejected Rs 4,800 crore offered as viability gap funding (government compensation for the difference between cost and revenues)

This meant that the state government would not only get the 71-km metro free of cost but would also receive Rs 1,240 crore (calculated at present value at 13.5 per cent a year) by simply giving the concession to a private consortium.

Although the build, operate and transfer (BOT) project was considered a model for other metro projects Delhi Metro Rail Corporation Limited Managing Director E Sreedharan criticised the deal, saying it de-pended on 296 acres of prime land being made available to Maytas for commercial exploitation. "This is like sell-ing family silver," he said in a letter to Planning Commission Deputy Chairman Montek Singh Ahluwalia.

Maytas Infra's troubles began on December 15 last year when Ramalinga Raju announced that Satyam would acquire 51 per cent of the company along with 100 per cent in unlisted Maytas Properties for about Rs 8,000 crore. Though the proposal was withdrawn following strong shareholder protest, the circumstances led to Raju making a sensational confession to longterm fraud in Satvam



The Times of India, Dt. 08.01.2010

Metro rail bids may get delayed

jinxed Hyderabad Metro Rail in Hyderabad particular. project may be delayed yet again with the authorities mulling extension of the last Private Partnership (PPP) date for submission of Request for Qualification (RFQ) from prospective developers.

sions, the last date for the sub- lopment along the metro roumission of RFQ was extended to January 16 a few weeks ago. Now, thanks to the current political turmoil in the state, it is likely to be extended again. an official of MA&UD said.

After the RFQs were inviteight groups have purchased RFQ documents. They include L&T (Mumbai), Reliance Infra. DB Group (Mumbai), VNR Infrastructure (Hyderabad), India Bulls Group (Mumbai), Lanco Infratech (Gurgaon), Essar Group (Mumbai) and GVK Group (Hyderabad).

HMR believes that the political situation will improve in a month and prospective developers will come forward to sion of bids for the Metro Rail take up the Rs 12,132-crore project. If the HMR goes ahead with the current bids schedule, there is a chance that some official of MAUD said.

developers may rethink in filing their bids owing to the cur-Hyderabad: Bids for the rent turmoil in the state and

"The metro rail project is being taken up under Publicwhere the private developer will bear the expenditure for the project and recover the In fact, after several exten- amount from real estate devetes, depots and through commercial exploitation. In the prevailing situation, most bidders may not evince interest,"

There is also an opinion ed by the Hyderabad Metro among the officials that if the Rail (HMR) on July 21, 2009 response from the bidders is poor, the government may be forced to cancel the bids and then it will opt for taking up the project on its own on the lines of the Bangalore Metro project where the state government has taken up the project with financial assistance from Japanese International Cooperation Agency (JICA).

"There is a proposal to extend the last date for submisproject. But a final decision will be taken after January 10 by the government," a senior

The Times of India. Dt. 06.06.2010

Metro rail bid last date extended again

TIMES NEWS NETWORK

Hyderabad: The Hyderabad Metro Rail Limited (HMRL) has extended the last date for submitting financial bids from June 7 to July 14.

The HMRL in a press release said the date had been extended due to unavoidable circumstances.

Officials said the updated bid documents of the Hyderabad Metro project were under the scrutiny of the Centre, A joint meeting of finance, urban development ministries and the Planning Commission, which bids. Since Reliance Infra is a was scheduled to be held in serious player in the project, the North Block, New Delhi, on state government reportedly June 4 to discuss and approve considered its request.

these bid documents got postponed due to some unavoidable reasons. Since approval of bid documents is essential for securing central financial assistance sanctioned under the Viability Gap Funding (VGF) scheme, the due date for financial bids for the metro rail project was extended by the state government by five weeks.

But sources in the governemnt said Reliance Infra of the Anil Ambani Group gave a representation to the HMRL four days ago seeking six months time to submit financial

The Times of India. Dt. 17.12.2010

Activists 'walk' against metro rail project in Koti

Hyderabed: To highlight the damage that the Bydawahad Metro Hail propert is likely to have on commercial establishments, scholars, asctal activists and conserved individuals, on Thursday conducted a walk through the brestling Eachigesta-Koti strench. A major part of this conturnes-old market place, which houses over 430 shope, in one of the many historic school of Hydreshod that is set to be detectabled so part of this proposed project. As yet the plan, the GEMC will seen tide



Expressing similar sentiments, several sleep-keepers and local revolvents come out and pointed the walk as the volunteers entered the al Alliance of Peoples' Movement CIAPM) that narrow bylanes of 300-year-old Keti market. organised this walk so port of its state-wide area. The locals were surried not just for their establishments but absorbs city's her ituge. "We have been operating betwine the last 10 years develoct, Sanitona, Chatri along with several and this shop is our only source of Irodibood. Individuals participated in this walk.



vendors at RMI to agreed awaysness about the SI effects' of the metro rail project on braders

If the metry project is executed we will have it will be dishereneous to see such an old leoutize shop is lost. Etito, Gepul Agerwal a tentile-dealer to Sighten Ricoar who to already think ing of an alternative business, in case his stops is demolished for the project. While the presence of resolutionary Telengana beliadeer Godor at the walk did ensure a high-level of participation from locals.

Apper from expressentations of the Nation protest against destruction of commercial pockets, members of Forum for a Better Hy-



Hindu, Dt. 29.12.2011

Indian Express, Dt.16.03.2012

dpally traders down shutters

Demand better compensation package for loss of their land in the Metro Rail project

Staff Reporter

WIGHER The buy our mercial hab of Chikkatpully Wednesday as the traders downed their stratters seaporting the one-day 'charta' and Chikkscholly Federation

of Guerneroe (CPC) at Chile-

him that there are only chale providing compresses atmospheres. about 50' shops would be all more than 80 per control their questioned. tion. Though the Metro Bal. project.

public transport enters, the infuriories the actual market process are not addressed, and

* BJP and Chikkadoally Federation of Commerce organise a one-day 'dharna' and 'vanta searpe'

wors a deserted look on * Traders operating on reated premises are being evacuated without being offered alternatives"

and vanta recept pro- traders should not be vari- priora." He Kazar said To- puly and offer those shops in grant operatory the \$17 miselist the process," he said sales, the efficies date that men're the traders who would

hadrady. The traders were Officing their demands, and are offering a very low cated at RTC Cross Boack is demanding better compense- CPC president C. Sand No- compensation package. In Joing armed for a long time ties package for the loss of mar said that the compensa- them," he said adding that said has turned into a fem for their land in the Metro Rail ties for the land should be those show have been func- unti-social elements. It can

short 200 shops that would first traditional distributions. "How can the officials suggested."

There are many tracers upenting on rested premises at Cirkinduly and they are being evacuted without offering my alternatives," he said. He wast the officials to construct a complex at the menicial market, Children about 70 establishments are line more than 80 percent of located on government leads their had. The sub-way isgiven at prevailing market faming for more than seven also be converted into a mar-While government many rates Their fermands also in- decades and have proper range list on the lates of New Del-

be effected by the Merco Red. without characteristics, and chira these properties as gas- "GEMC Commissioner has Il plane project at Crisical- proving alternate accus- emmentical while there we accepted our demands but pair, the RP National score model for the tradem and collecting tense all the there is no written commithav & Larger see that brants who are set to low while" Mr. Kirner next from the government til now. We will continue this fected during the construct property because of the Dr. Lamus complained struggle and I will go on inthat while the owners receive definite that from mid-larmwill reduce the traffic congress. The proposed compression of a problems any if these demands are not



tion and provide efficient tion of its 4000 per squart of traders occupied sected and by then "Dr. Larmon DESOLATE. Steps remain closed as traders support the protest by EUF and Chibbachally Federation of Consveror on Wednesday. - PROTO: K. RAMESH BABU

THE COURTS

HC Stays Works on Metro Rail Stretch

Hyderabad: The High Court on Thursday issued interim orders, staving the execution of work on the Greenlands-Shilparamam segment of Corridor-3 of the Hyderabad Metro Rail project.

"It appears that the state government granted the rights for metro rail on an earlier occasion in favour of an agency, in a similar clandestine manner, keeping the entire project away from public scrutiny. At least when its decision turned out to be a blunder, it ought to have been careful and followed the procedure prescribed under the relevant provisions of law," justice L Narasimha Reddy remarked on Thursday.

Pronouncing the judgement, the judge said acceptance of the contention of the HMRL managing director and the state government would lead to disastrous consequences.

"A scheme which involves transfer of vast extents of government land, acquisition of large number of private properties, dislocation of road transport system for a considerable time and conferring of the largesse of a high magnitude upon a private agency cannot take

place without reference to any public opinion. In the counter-affidavit, the respondents impliedly stated that the provisions of the Metro Railways Act were not



the state, in its eagerness to spread a red carpet for a private agency, has chosen to violate and break the law enacted by itself. It is not out of place to mention that the very purpose of enacting the AP Tramways Act was, keeping in view the present 'Metro Railway Project'. So much of urgency was felt that an ordinance was issued and, later on, it became an Act.

"After perusal of the counter-affidavit of HMRL, it is

JUDGE'S CAUSTIC REMARKS

- Acceptance of the contention of HMRL and state govt will lead to disastrous consequences
- The state, in its eagerness to spread a red carpet for a private agency, has chosen to break the law enacted by itself
- Not only a vast number and extents of pvt properties but also public institutions such as Durgabai Deshmukh Government Women's Technical Training Institute and a govt school will be
- A project involving transfer of vast extents of govt land, acquisition of many pyt properties, dislocation of road transport system and giving huge largesse to a pyt agency cannot be executed without taking public opinion

followed.

The respondents have chosen to bring about and establish a metro railway under the AP Tramways Act."

The judge remarked that the managing director appears to shield or immunise HMR from any plausible objections, and unfortunately

evident that not only vast number and extents of private properties but also important public institutions such as Durgabai Deshmukh Government women's Technical Training Institute and a government primary school at Krishnanagar are going to be virtually wiped out or made dysfunctional.



The Times of India, Dt.19.03.2012

HC stay on metro works: Hope for others affected?

METRO RAIL

Hyderabad: The high court's stay order on Hyderabad Metro Rail (HMR) works between Greenland and Shilparamam has given hopes to the poor living on the stretch from Jubilee Bus Station to Falsknuma that their plight too will be taken up by the court suo mo-

The high court stayed the works on Thursday on Corridor 8 based on a writ petition filed by a group of affected people who for med a Joint Action Committee, The slum dwellers living on Corridor-2, that lies between JBS and Falakriuma, who so for believed that no influential political party or organization will aver take up their cause, unlike in Sultan Ha ERRE DOW SOUTH to find a ray of

Chhatri, agrass-

root organization working in the Old City says that the trade unions and political parties have successfully opposed the HMR works taken up in the Sultan Bassar area. But if HMR materializes, there are also thousands of alson dwellers and daily wagers who will be thrown out of businesses and their houses but haven't formdamy support thus far Also razed will be three government schools that cater to the people in that area.

She says quoting a recent survey conducted by Chhairs, 180 houses, 400 shops and three government schools will be affected by the HMR project in the Dhobighat till Chaderghat Kamen stretch alone. Ninety-five percent of the people who would be atfected are either Muslims or SCa and STs. Most of them are daily wagers, motor repairer, peads cart yeardors or domestic labourers. "May be that is the reason why no one is bothers: to stand up for their rights.

K Raju, a bamboo worker who stays and works out of the Kali Khahar slum, says, 'We have been selling bamboo buttee on this footpath for years. Now the authorities have asked us to move out." The shame, some of which are abutting the footpath also face the danger of being razed down. Although the people there pay Ha 1000 to the land owner every month, they are scared of bringing the issue up being migrant workers in the city without any ration card. Also affected would be the washermen from the Dhobighat behind the CIUL Sava Vankateah, a dhohi from the erea, "Metro people are threatening to every now and then and asking for the 'patta'

(legal papers). They are ignoring the fact that we have been occupy

sam's ers. Our original 11 screland was cut down to three when the RTC bus stand come up. Now they want us to give up this too."

The City Model School, Government School and Chaderghat Girls' High School mainly teach children from the slums. All of them will get demoliahed to facilitate the HMR project. Relocation of the schools will not help the course as It is already a big deal for children from these families to go to schools in the first place even though they are near their shims "With all the three schools rased down, these children will no longer get any opportunity to study," says Md Ashfag from People's Initiative Network

flays Devi, a grass-root worker from Moosanagar, 'No compensation package or rehabilitation programme has been offered to these people yet. There is nebedy to speak on their behalf.

Indian Express, Dt. 07.05.2012

Metro rail works hit expected roadblock

Locals oppose felling or translocation of trees attached to temples at Erragadda and Moosapet; So far, 340 trees cut down in city

Hydreabad. With the

Holorabad Motors Ball projest platfing up messenture. nationamental artistate and casemed officers are role leg their roles appliced the de-Alleged to make breeze moved for rides. Of these, the 1000 respective has already Adject part and trombinated 164 but is finding it difficult LA Single-Misspur stretch where the little works are in progress. In the same stretch, around 1,289 trees are printing to faculat direct and what stone, they see use 'Th'

Rabatpelly and get local remove let their westnesses egget for the ages, but he hart be are still enting to has hit a readblock at the the official exposure. Longe at Minimpet are up. The year old Rangers

seing translocated to the Outer King Road and saplings are being planted at

temple while at Krospedda. He HMR is vocation platting to passed to the supresting a tree at the Bangues Maisrenne . The locals to educate these.

indiamed that they would - specific translates the trees remove the two and more

trees of the Stalla Purhamora: diseas? Looks perhaps to floot "The authorities have motor roll project and the

termination of Green, as as



tion of the Hadrenhad Motor Rail, Emidents have been exhaustently postuating against \$1.100 food

Times of India, Dt. 23.12.2012

Save govt schools: Medha

Calls Demolition Drive For Metro 'Govt Gunda Gardi'

TIMES NEWS NETWORK

Hyderabad: Social activist Medha Patkar on Saturday lent her support to civil society members struggling to save government schools in Chaderghat from being demolished to make way for the Hyderabad Metro Rail

On Saturday morning, Patkar visited the schools facing demolition - Government City Model Primary School, Government City Model High School, Government Girls Primary School, Kattelaguda, and Government Girls High School, Chaderghat (old) and interacted with the students. While assessing the situation, she termed the demolition move as 'gov-



Social activist Media Patkar with civil society members in Chaderghat on Saturday

ernment gunda gardi'.

"It is shocking that the the government is strugadministration in Hyderabad has grown hawkish in the name of building urban infrastructure that it has to erase even government school buildings for the

metrorail. On the one hand. gling to improve children's education through schemes such as Sarva Shiksha Abhiyan, and on the other, it is demolishing school buildings even without making turbed.

alternative arrangements ' Medhasaid

She said she was with

the civil society members fighting to save government schools, and warned that she would lead an agitation in Hyderabadon the lines of the ongoing struggle against displacement of slums in Mumbai for the metro rail project there. With the parents of the schoolchildren protesting the government's decision and the SHRC issuing notice to the district collector (DC) of Hyderabad based on a petition filed by Human Rights Forum (HRF), the government agreed to give time to the schools till April next yearso that the current academic year is not dis-



The Hans India, Dt. 26.11.2012



Chief Minuter Kran Kumar Finish insupersting Hyderahad Metro Rad Work (above) on Sunday. Also seen are Ministery Danam Nagender. Butchs Salps * Report: PJ chief) and I Geetha Reddy. Photos: SNAPS INDIA





OR THE TRACK: The first girder of Hydreshad Metro Bail Project on merro. - 2, between Uppal-Habsiyada was launched by Chief Minister N. Kirun Kumur Ruddy un Sonday. - PHOTOE G. KRISHNASWAMY

Special Correspondent

HYDERABAD: Chief Minister N. Kirso Kumar lieddy on Sunday strongly warned troublemakers against brooking law and reder in the city and said that peace would be main

fathed at any cost.

. Kiran unveits plaque for launching the first girder as part of metro rall works

. 'We are going about the project in a methodical and transporent manner

anyons. I have to take care of plots would be developed for 10000 will be completed in all maging Director N.Y.S. Rode "While democratic means the common people in the all those who had given up respects by next year end.

hern. I have a responsibility on. The National Institute to make use of my position to. Dosign (NGD) and the Lifdecades the city into a world. Sciences University are set class one with the best of in-Dastructure," he said.

"The Outer Hing Head.

puses while several other to come here," he said.

Hyderabad Metro Ball Ma awil the actual lifting of C

PHASE I WILL BE DEDICATED TO THE NATION BY DEC 2014: CM

Metro project on schedule

OUR BUXEAU

Hydershad: Chief Minister N Kiran Kumar Enddy on Smaley said the the first phase of the peringions Hydetabad meno Rail project would be dedicated to the nation by December 2014. Three corridors of the project were atheduled to be made operational as part of one day on the part of the the first phase.

The motro call first phase when the chief minuter inaugument the works installing launching girders on

At the function to enincide with the completion of two years by the chief min-city. inter, Kiran Kumar Redds said the government was largest metro project under

Crucial stage of phase I inaugurated

 All the three corridors will be ready by 2017

plete the project on ached-

"Even if there is a delay of. government, we will have to pay a penalty of Rs 32 takts work entered crucial stage and if the LAT delays comone day, they will have to per Er 64 lahts," he said. Hyderabud a world-class

Toured as the world's making all efforts to over- the public person parmer-

project's first phase, at a cost of Ra 16,375 cross, will be completed by June 14. The length of approximately 71.16 km has been divided into three corndors, Corridor I will be developed between Miyapur and LB to the metry call pillars at. The chief minister said the. Nagar with 27 stations spanproject was a part of the sing IE.ET km, while corngovernment's efforts to make dor II will be between Jhiand Fulaknuma with 10 sta- of metre rail viaduct would tions spanning 14.78 km and for implemented in precast coerifor III will be devel- segmental communities aped between Nagole and method to minimise the in-

The entire project with 66 elevanté metro mations will be operational by July 2017. The trial run will begin by the end of 2014, with the commissioning of the first stage of the priged expected ship, the 72-km elevated rail is 2015. NVS Relife, managing director of Hyderabad Metro Rail Limited, said the box type aron launching first phase of the project at a girder of about 34 meters and weighing 300 tossnes would be lifted using two hydraulic cranes of up to 150 tonnes each and special. en top of the two pillats. The work would be undertaken during night.

tions spanning 27.51 km.

He said the entire stretch Shilpsraman with 23 sta- convenience to road users.



Deccan Chronicle, Dt. 03.12.2012

1st Metro station at Uppal next yr

DC CORRESPONDENT HYDERABAD, DEC. 2

The first metro rail station in the city will come up at Uppal. The Hyderabad Metro Rail (HMR) officials have finalised the location and launched the works to complete its construction by the end of 2013. Each station, 140 m by 20 m in size and designed to accommodate six-coach trains, would cost around ₹40 crore.

In the first phase, there will be eight metro stations between Nagole Mettuguda, and in all, 66 stations along the 72-kilometre metro rail project in three corridors. There will be three joint stations at Ameerpet (corridors I & III), Parade Grounds (corridors II & III) and at MGBS (corridors I & II).

Unlike Delhi Bengaluru metros, the HMR stations will be completely eco-friendly They will have natural ventilation and no air-conditioning, and will use solar

The other unique feature



An artist's impression the Metro rail station at Uppal

will be that stations will be of "spine and wing format" resembling a bird and 70 per cent of it will be pre-fabricated. This is to avoid inconvenience to road traffic during the construction

The stations are being designed in four categories. 30 m (100 feet), 36 m (120 feet), 45 m (150 feet) and 60 m (200 feet) to avoid additional land acquisition for their construction.

"The metro rail stations will be built as 'cantilever stations', perched on only one pillar at the centre, with no side pillars, unlike in Delhi and Bengaluru metros. It's the first time in the country that cantilever elevated stations are being built, a rare engineering feat by L&T's structural engineers. The stations will give the look of a global city to Hyderabad," said N.V.S. Reddy, managing director,

The stations will be divided into two levels, "concourse" and "platform".

Passengers' entry and exit facilities with staircases, escalators and lifts will begin at concourse level which will be at a height of 8 m (26 feet).

Deccan Chronicle, Dt. 09.12.2012

Metro among 100 global projects

L VENKAT RAM REDDY | DC HYDERARAD, DEC. E.

The Hydershad Metro Rail (HMR) project has been selected as one of the top-200 strategic global infrastructure projects for 2013 that will be showcased at Feb-March, 2013.

cross (\$2.6 billion) HMR Tech City-and the \$65,000 be around \$646 billion.



An artist's impression of a proposed Metro Roil station

Infrastructure Leafership projects feature in the list. Mumbul-Ahmedabad High mance and competitive Forum in New York during the C12,000 crore (\$11.2 bil- Speed Rail project. The ness. tion) GIFT city - Guiarat total estimated value of all Apart from the \$14,323- International Pinancial 100 projects is estimated to Page 3: HMR MD invited to

the Sorthouning Global project, two other Indian croce (\$16.85 hillion) terms of overall perfor

'Strategic 100' is a list of the top-100 infrastructure projects selected through rigorous selection process on the basis of their poten tial to make significant di

attend summit in NY



KIRAN PATS HMRL FOR WINNING GLOBAL AWARD

OUR BUREAU

hief Minister N Kiran Kumar Reddy on Friday congratulated Hyderabad Metro Rail for receiving the Best Engineering Project of the Year Award at the Sixth Annual Global Infrastructure Leadership Forum Conference, currently being held in New York. He said that the global recognition won by Hyderabad Metro Rail will boost the competitive advantage of Andhra Pradesh and attract more investments to the State and the country.

The Global Infrastructure Forum on February 28 selected Hyderabad Metro Rail as the Engineering Project of the Year out of 100 top global infrastructure projects. The Chief Minister, while hailing the Hyderabad Metro Rail for winning the coveted award. asked HMRL to work with utmost dedication and clear milestones to complete the 14,132 cr) of India and Al tion made by Managing Didards right on schedule.

three projects namely, Trans-Anatolian Gas Pipeline (Rs for the award. Based on in-37,800 cr) of Azerbaijan, Hy-tense evaluation of multiple derabad Metro Rail (Rs parameters and a presenta-



Sam Bob and Dr KS Jawahar Reddy receiving the Engineering Project of the Year Award at Global Infrastructure Leadership Forum in New York

Combined Cycle Plant of It may be stated here that Kuwait were short-listed for the final round and competed

project with world class stan- Abdaliyah Integrated Solar rector of Hyderabad Metro Rail Ltd (HMR) N V S Reddy, the Hyderabad Metro Rail project was finally

presented including, Job Creation Project of the Year award to Detroit River International Crossing/Champlain Bridge (Rs 18,900 cr) of Bob and Secretary to CM K awarded the coveted top Canada, Green Infrastructure S Jawahar Reddy received Four other awards were newable Energy Independent the Year award from the tive practices.

Power Producers (Rs 29,160 Chief Executive Officer of cr) of South Africa, Finance Aconex Leigh Jasper and Project of the Year to Rio de President and CEO of Janeiro Airport Concession CG/LA Infrastructure Nor-(Rs 17,280 cr) of Brazil and man Anderson in New York Strategic Project of the Year on Thursday at a function atto Etihad Rail (Rs 59,400 cr) tended by around 400 top of the United Arab Emirates. public and private sector ex-

ported by several top global consultancy and infrastruc- infrastructure projects. ture firms, had initially selected 100 projects from awards, Leigh Jasper said around the world as the that the Project of the Year several criteria such as busi- tional projects and excepness opportunity, productiv- tional leadership. Norman ity creation, competitiveness creation, job creation and carbon efficiency. These top global 100 infrastructure proects had been identified for their ability to create world class infrastructure in their respective sectors and regions and to contribute to the competitiveness and economic development of their respective countries/regions.

N V S Reddy along with Principal Secretary of Municipal Administration and Urban Development B Sam Project of the Year to the Re- the Engineering Project of

The Global Infrastructure ecutives, bankers, financial Leadership Forum, sup-experts, consultants and industry leaders specialising in

While presenting the 'strategic hundred' based on Awards recognise excep-Anderson stated that the winning projects not only represent best practices, but also mobilise this generation's legacy for the next generation and that they are literally our design for the fu-

> Appreciating the presentation delivered by N V S Reddy on the Hyderabad Metro Rail and its innovative financial and engineering design, head of New York's Metropolitan Transportation Authority (MTA) Nuria Fernandez expressed that the United States of America should follow similar innova-



Business Line. Dt. 24.05.2013

World Bank, Hyderabad Metro focus on transit-oriented development

Our Bureau

Hyderabad, May 23

A team from World Bank and Hyderabad Metro Rail Ltd today highlighted the importance of harnessing the potential of land value in transit oriented development of the metro rail project.

Outlining global examples of Hong Kong, Tokyo and many other cities, Hiroaki Suzuki, Lead Urban Specialist of the World Bank said how these cities achieved enormous prosperity and development apart from addressing their traffic problems through TOD approach.

He highlighted the need to integrate town and railway network planning. It is a common approach to cross-subsidise loss- making Metro projects through revenues from property development in and around metro stations.

He said financing and development of multi-billion dollar metro rail projects in Hong Kong, Singapore and Tokyo made them global centres of economic activity.

Barjor E. Mehta, Country Head of World Bank in India, said the Hvderabad model is a very promising and that World Bank will support its plans and activities to transform Hyderabad as an eco-friendly global

B. Sam Bob, State Principal Secretary, Urban Development, emphasised the need to finance urban infrastructure projects by capturing enhanced land values in urban

N.V.S. Reddy, Managing Director of Hyderabad Metro Rail project. said the features of "Transit +" model of the project have been designed to decongest the city busy hubs.

The planned densification along metro corridors and development of areas around metro stations through land pooling helps create value, they felt.

rishikumar.vundi@thehindu.co.in

The Hindu. Dt. 24.09.2013

Metro Rail project to boost capital's brand equity METRO FOR A MODERN WORLD

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Morting with architects

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"Why card as produce sensiting everys? The asstarm Bull are sky toph, and minimar responsibility to probefore coming up with defree considered initials dotalk they will impact common tert," said 179Ch Managing Soweter N.V.S. Roldy, while impacting with the archithe 70-line Metro Ball will forces and analytically agreed ng practic for all arassess. respect that noted camerahigh concerns pinya plantathat wigh the solution is it meetings. believe the visulant of the say.

MAY will come up with an aesthesic rivaling the best metro cal present. in the world

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The Hindu. Dt. 26.09.2013

HMR bags global award for safety measures

Special Correspondent

PROFESSADA Chief Minioter N. Kiran Kumar Reddy congrabulated the Budershad Metro Ball and the L&T Metro Raji Hyderabad teams for bagging the prestigious Royal Society for Prewestion of Accidents (BoSPA) Gold Medal for Occupational Beath and Safety for accidentfree execution of the work.

The teams met the Chief Minister at the Secretariat on Wednesday afternoon, where the latter was updated about the project's grogress. This is the second. prestigious international award won by the Hyderabad Metro Bail project with the first being "The Best Engineering Project of the World for the Year 2013" at New York in February this year.

HMR Managing Director N.V.S. Beddy, representing the AP government, and C. Sankaralogam, representing the construction wing of L&T executing the HMR project, received the award last week at Ghaspow city in



Chief Mirester N. Hiran Kumar Reddy meeting the Hyderabad Metro Rail detegation in Hyderabad an Wednesday, - PHOTO, BY ARRANGEMENT

countries across the world attended and the awards ware given away by Lord Bill Jordan, president of BoSPA.

Mr. Kiran Komur Reddy said the awards have only enhanced the responsibility of Metro Rail engineers to ensure that the project is execated quickly with highest substy atundards. He once opin assured the government's full support for the project and asked Chief Secretary P.K. Mohanty to manitor the work.

Regular monitoring

Metro Bail works are progressing at a brisk pace in highly congusted traffic corridors of the city. Sengulous atherence to well-devised Great Britain, Participa- sufety measures and reg- on the occasion.

ats from more than 90 - ular monitoring/inspec tions are ensuring prevention of accident and occupational hor artis while executing th works for the past is months with 3.5 cmc man hours spent with out any futal secident.

> BoSPA is an Ind pendent body which studies and munitor important constructio projects across world through rando checking Continuou safety and occupations health awareiness camp for all the workers th. are being regularly one nised by a decirate safety team of senior ex gineers of L&7 led to ti award, explained M N.V.S. Reddy, Micrists for Municipal Admini tration M. Mahaedh Reddy was also press



Business Line, Dt. 03.12.2013

'Hyderabad needs expanded metro rail network'

Our Bureau

Hyderabad, Dec. 2 A comprehensive study prepared by Hyderabad Metropolitan Development Authority projects a huge demand for public transport with the city requiring a near five fold increase in the metro rail

network.

The perspective plan prepared by the authority in league with Greater Hyderabad Municipal Corporation, Hyderabad Metro Rail Limited. in association with consultants LEA Associates South Asia, projects that the current metro would have to go up from 72 km when completed by the year 2017-18 to 360 km

by the year 2041.

Hyderabad is projected to have a population of close to two crores (190 lakh) by 2041. Based on such a growth and the requirement for integrated urban transport system, the authority hopes that 60 per cent of the people living and commuting would depend upon urban transport networks.

In tune with such a huge growth in population and also geographical size of the metropolitan city, it is projected that the metro rail will have to be cover a stretch of 360 km up from 72 km now, and the Multi Modal Transport System will have to grow to cover a stretch

of 428 km, up from 42 km now The metropolitan city of and the metropolis might need a network of a Bus Rapid Transport System covering a distance of 360 km.

> The draft comprehensive transportation plan approved by the authority for notification factors the huge growth of the city into a metropolis over the next three decades and seeks to address major issues such as urban transportation and development of industrial hubs outside the Outer Ring

> Making the draft plan public, the authority has sought objections and suggestions before finalising the plan.

> > rishikumar.vundi@thehindu.co.in

Indian Express, Dt. 03.12.2013

Metro Trains, Stns to be Disabled-friendly

HMR, DRF organising Awareness Walk for the Disabled today



Hyderabad Metro Rail managing director NVS Reddy speaking at a press conference in Hyderabad on Monday on the eve of World Disabled Day, HMR is organising Awareness Walk for Disabled Persons on Necklace Road in the city. I a suresh kumar

Express News Service

Hyderabad: The Disabled Rights Forum, in collabora-Rail, is organising 'an awareness walk for the disabled persons' on Necklace Road in the city at 7 am on Tuesday on the occasion of World Disabled Day.

HMR, according to its managing director NVS Reddy, is taking special care to cater to the needs of people with mobility, visual, hear-

Speaking at a press conference here on Monday, he said stations were designed tion with Hyderabad Metro to provide a barrier-free environment with ramps, bigger lifts, specially-designed hand rails, height-adjusted operating buttons in lifts, fare gates, ticket vending machines, etc.

The lift operating buttons will have information in Braille, the language of the blind, at all levels of stations. apart from tactile strips to stations and trains without ing, speech or cognitive im- help visually- challenged others' help.

persons. Specially-designated wheelchair spaces will be provided in metro trains to lock the wheelchairs to a special 'grab hold'.

Special toilets with provision for physically-challenged persons will be provided at each station. These toilets will be equipped with grab bars and supports to aid them. Pictograms and signages will help disabled and illiterate people to easily access different areas of the



Metro India Dt. 28.12.2013

The Indian Express Dt. 29.12.2013

Travel in Metro Rail with ATM card

K CHANDRASHEKAR/HYDERABAD

Your Metro Rail smart card can double up as your ATM card as well with the Hyderabad Metro Rail authorities contemplating bringing in a multipurpose 'smart card'. It can be used for metro rail ticketing, petroleum card and also as ATM card.

The Hyderabad Metro Rail (HMR) authorities are integrating certain unique features, which are not there in the other metros like Delhi and Bengaluru. Talking to Metro India on the special features, HMR Managing Director NVS Reddy said they were in talks with some banks for a tie up for multi-purpose smart card.

Reddy said that the Hyderabad Metro would have Communication Based Train Control (CBTC), where trains would talk to each other on their way. It is radio based communication system, where the location of the train would be known at every fraction of a second. Every train will

The multi-purpose smart card can be used for Metro Rail ticketing, petroleum card and also as ATM card

have the information system and the main server would be at Uppal operation control. This service was provided by the Thales, a French company, which would also look after signaling and train control, he said. The operation and maintenance (O&M operator) was Keolis from

France. The automatic fare collection (AFC) was being done by Samsung from South Korea, he added.

"The HMR is designed in such a way that for every 90 seconds a train can be run," said Reddy. Around 60,000 passen-

gers can travel in one corridor in an hour, he said. "There are 200 metros around the world and we have seen the positives and drawbacks in many of the metros and selected the best technologies and facilities," the official said.

"The Detailed Project Report (DPR) for HMR was prepared by the Delhi Metro and it was for medium metro but we wanted it to be a heavy metro as we are planning for the next 60 years. The pillars in Delhi metro rails are round in shape where as we wanted it to be in Y shapes and

also wanted to have aesthetic beauty. which will be very attractive," Reddy said.

The MD said, "We are not just building a metro but a quality way of life for the citizens of Hyderabad. There would be open spaces at stations. It would be a hub of social activity having open air restaurants. There would be sky walks, sidewalks, a place for urban rejuvenation."

HMR to Be India's First to Use CBTC Tech

by S Bachan Jeet Singh

Hyderabad: Apprehensions and doubts raised by critics notwithstanding, the Hyderabad Metro Rail is proceeding at a fast pace to become a reality soon.

It is going to be a major achievement for the city of Greater Hyderabad and no body can stop the ongoing project which is going at a brisk pace, HMR managing director NVS Reddy said on the accomplishment made by the HMR in the last one

"Apart from Metro gurus discouraging the project, several people including experts criticised about the metro mil project stating it is going to be failure and should be acrapped. Now we are proving the critics wrong as works on three corridors of metro rail are going at a brisk space and the 8-km-long stretch from Nagole to Mettuguda is going to be ready in March 2015. Trial runs on this stretch will start in July next and will continue for six to nine months before getting safety certificate from the railways," he said.

So far, about Rs 3,150 crose has been spent by L&T Metro Rail (Hyderahad) Limited and Rs 900 crore by



HMR towards land acquisition, road widening, nala improvements, etc.

One of the largest such projects anywhere in the world, HMR will be India's first to

matic train operation where, trains are controlled from the central control centre and enhanced safety is provided by applying brakes automatically in case of any mistake by the driver. Delhi Metro, which runs on the conventional system, is trying to upgrade to CBTC tech-

Reddy said a significant progress was made on foundation constructions in the last one year and state-of-art machinery was being used for launching segments from the girders.

The automated communication-based train control system is just a step away from driverless system

run on the automated Commanication Based Train Control System (CBTC) technology, practically a step below the driverless mode. HMR is also country's first two-track elevated city transit system to be developed under the publie-private participation model. The choice of CBTC is for enhanced frequency and safety. Most such technologies can be upgraded to driverless. Reddy said.

More hectic activities would be witnessed during 2014 as new rolling stock (coaches) will arrive from South Korea in May 2014 and will be on the elevated tracks from October, construction depots, metro stations will be speeded up, and 267 of the 269 acres of land has been acquired for the

The Hyderabad Metro Rail network will cover a total

CBTC is almost an auto distance of around 72 km across three corridors: Corridor I from Miyapur to LB Nagar, Corridor-II from Jubilee Bus Station to Falukouma and Corridor-III from Nagole to Shilparamam.

> Out of the total 2,700 foundations to be laid on the three corridors, 1,116 have been laid covering a distance of 29 km in ten stretches. Completion of foundation work is challenging and will help in executing the project in a bassle-free manner.

Reddy said 974 piliars (26.5 km) had been laid, each 31 metres apart, where precast segments will be laid. Each segment weighs about 35 tonnes. For making precast segments, large casting yards have been developed at Uppal and Qutbullapur nince in situ arrangements on the three corridors is not possible due to congested roads. The precast segments are curried at night to the work place to avoid traffic problems during daytime. So far 8,700 procest segments have been constructed and 13 launching girders are beng used to fit them.

About 86 percent and 68 percent of works have been. completed at Uppal and Miyapur depots.



The Hindu. Dt. 03.02.2014

The Indian Express, Dt. 05.02.2014

'HMR will boost older parts of city'

Time to give better connectivity to people residing in all areas: N.V.S. Reddy

Staff Reporter

Metro Rail (HMR) project about various other benefits will rejuvenate commercial that the Metro Rail would establishments in older parts bring to the city by way of of the city, HMR Managing providing avenues for rede-Director N.V.S. Reddy said on signing the city.

parts start decaying as peo- naire, L&T Metro Rail Limitple tend to move away from ed, the HMR will construct them. The only way to save skywalks to connect Metro older establishments is to stations with surrounding bring consumers back by pro-apartment complexes, comviding them better transpor- mercial establishments and tation, he said, adding that educational institutions in Metro Bail was the best way terms of requirement, Mr. to ensure this connectivity.

Mr. Reddy was addressing "We are receiving several traders and members of the representations from people Rajasthani community at a requesting extension of the function organised by Rajas- Metro Rail to their areas, and

commercial complexes and said. The requests include excan be encouraged to putro- from L.B. Nagar to Vanastha- Alwal. nise shops and establish- lipuram, Miyapur to Patanch-

ments that are otherwise not easily accessible," he ex-HYDERABAD. The Hyderabad plained Mr. Reddy also spoke

Once the main work is As cities expand, the older completed by the concessio-Reddy explained.

than Graduate Association. these requests will be incor-"By providing skyways to porated in the next phase," he

DRIVING DEVELOPMENT

- · Metro Rail to provide avenues for redesigning the city
- . Parking spaces are currently being constructed at 20 Metro stations

SETTINGUES TO COMPACE

- · Asartment complexes
- Commercial establishments
- Educational institutions

ROPOSALS FROM THE

- .L.B. Nagar to
- . Wisapur to Patancheru
- . Jubilee Bus Stand to Alwai

establishments, consumers tension of the Metro Rail line eru and Jubilee Bus Stand to will not give extra space to the mar Bhattad and other memconcessionaire. Mr. Reddy bers of the association were Reiterating that the HMR pointed our that utilising the present.

There are about

200 metros in

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using the available space

for commercial purposes

and advertisements.

Hyderabad

Metro Rail

should be fulfilled by

available space for commercial use was necessary to strengthen public-privatepartnership.

"There are about 200 metros in the world, of which only balf a dozen are making profit. The passenger face component of the revenue covers hardly 50 per cent of the total cost, so the rest of the burden should be fulfilled by using the available space for commercial purposes and advertisements," Mr. Reddy explained.

He also said parking spaces were currently being constructed at 20 Metro stations. and that officials were exploring options to create space in the available government land at other Metro sta-

Harikrishna Ojha, Suresh Chandra Kahra, Ramesh Ku-

85 percent of Metro Rail Work **Being Done at Pre-casting Yards**

The works are being done in yards to minimise inconvenience to commuters on the mads

Hyderahad: The precast construction activities for making viaduct segments, spine, wing and beams segment at Qothbullapur pre casting Yard are going at a brisk pace with engineering

Except laying of foundations and erecting of pillars. (pirrs) on site, nearly fig percent of the metro rail works are done through pre-custing method at the two pre-cast-

ing yards.
The Hyderahad Metro Rail (HMR) project, one of the largest infrastructure projects being taken up on Public Private Partnership (PFF) in the world covering to institute ourndors up der Phase-1 by L&T Metro Rail (Hydershad) Limited. are going at a foot pace madeby at the two precast yards at Quthbullepur (64 acres) and Uppel (72 acres).

HMR managing director NVS Reddy slong with LATMRHI, managing director, Vii Godgil and project director, MP Naidu, for the first time took media persome to Qutbullaper costing yard to show the precent works at the site.

Speaking to media per some here. NVS Roddy said. that to minimise the inconversionce to read seen during the matter rail constructions activity, 85 percent of the metro rail works are converted to pre-casting method,other than leying of foundations and erecting of pillars (piers) all other activities are done mostly in pre-cast method.

Quithalispurprecastyard has a production capacity of 400 segments per month and up to 1,400 regraents (equivalent to the requirement of a km viaduct) can be stocked in the yard. Nor-



maily between two pillars there will be an agmenta, each segment weighing about 40 tons.

For the three corridors Missour to LB Nagar, 788 to Falakrooms and Nagole to Shilparamam, as many as-28,000 vieduct segments are required. Half of them: (14,000) are being precent at (14,000) at Uppal yard.

Sinisely, about 13,000 spine segments, wing segmeets and been segments are also process at these two casting vands. Nearly 2,000 segments and 5,400 seg-

STATUS 000

As on data, about 1349 piers, 965 foundations and 580 spans have been constructed for the vaduot. About RR percent of works in Upper depot and 72 percent of work in Mustpur depot have been completed, about 7 km (8D) percent) of track work is completed in Uppel depot and about IF percent of mad erection for traction is complet od between Nagore and Methigans.

ments have been completed at Quthbullepur and Uppal castings yards.

About 1,200 spine segments have been completed at Quthballayur yard and 1,575 at Uppal yard so far. They said that measive quantities of about 58 labb cubic metre of RMC, two lakh metric tons of steel and 20 lakh tons of cement will be used in the projects, another esgi-neering solution adopted by L&THMRL is to use, curing compound for cu ing the cement course instead of water which avoids spillage of water of the roads and road usen Highly accredited Qua

ity Assurance and Quali-Control (QAQC)(abs to es sure top quality country tion and checks used are o per with international sta-

Gadeil said that Hydro hed will see the secon transfortuation thanks to th metro rail, the first transfer manten was to 1999 when I was developed arous



The Indian Express, Dt. 14.08.2014

CM Wants Metro Rail Corridor Extended to 200 km

Express News Service

Hyderabad: L&T Metro Rail (Hyderabad) Limited Chairman YM Deosthalee called on Chief Minister K Chandrasekhar Rao on Wednesday and requested him to facilitate more work fronts for Metro Rail construction so that the project can be completed as per schedule. The meeting assumed significance at at a time when the State government had decided to change the alignment of Metro Rail to protect the heritage structures.

his intentions and plans other 200 Kms in phases, clearly to Deosthalee and others from L&T. The Chief Minister told them that the Metro Rail plans were prepared for just 72 km, which lacked vision to serve the future needs of Hyderabad.

The Chief Minister said that the State government had decided to extend the Hyderabad Metro Rail for 200 km from the present 72 km. The Chief Minister informed L&T senior management that Metro Rail would be an important component of the Master Plan for the city and that Metro Rail The Chief Minister made would be extended by an-

Chief Minister Rao made it clear that top priority will be accorded to Metro Rail construction activities and he instructed GHMC Commissioner Somesh Kumar to speed up road widening in Metro Rail corridors.

The Chief Minister also instructed Hyderabad Police Commissioner M Mahender Reddy and HMR MD NVS Reddy to jointly work out traffic management plans and alternate routes and advised traffic police to create temporary one ways or even closure of some stretches of roads if required for a short

period to speed up Metro Rail works.

The Chief Minister advised the Deputy Chief Minister Mahmood Ali, Home Minister Nayani Narsimha Reddy and Excise Minister T Padma Rao who hail from Hyderabad to coordinate Metro Rail construction activities.

The Chief Minister directed the Ministers to convince the local residents for roadwidening, one-ways, temporary road closures etc so that Hyderabad Metro Rail can create a world record in terms of speed and safety in construction.

KCR suggests making Metro pedestrian-friendly

Asks HMR officials to extend skywalks below the elevated viaducts

Special Correspondent

HYDERABAD: Chief Minister K. Chandrasekhar Rao directed the Hyderabad Metro Rail (HMR) authorities to extensively plan for extending skywalks below the elevated viaducts with landing facilities to nearby schools, colleges, offices and residential buildings, hospitals and other public utility buildings.

These can be extended to even big private complexes so as to reduce congestion on roads. Similarly, skywalk crossings at all important junctions in the metro rail corridors would help citizens safely cross the junctions without any fear or problem. he pointed out.

The Chief Minister was interacting with the HMR offiproperty show. Looking at the parking complexes at impor- trains were also discussed.



REALITY CHECK: Chief Minister K, Chandrasekhar Rao interacting with HMR officials at the CREDAI property show. - PHOTO: BY ARRANGEMENT

tant metro stations across the three corridors to increase ridership and reduce parking problems, a press release cials at their pavilion after said. Better pedestrian facilinaugurating the CREDAI ities and feeder bus services for commuters to get the benminiature model of the pro- efit of 'seamless' travel facilject put up for citizens to get ity, special needs for senior an idea of the same, he ad- citizens, women and disabled vised multi-level mechanised at the overhead stations and

HMR MD N.V.S. Reddy briefed Mr. Rao about the unique features of the Metro Rail project, including stations, coaches, corridor connectivity with residential colonies, business areas and several add-on features. Hyderabad Metro pavilion will be open till tomorrow at the CREDAI exhibition, HICC. Madhapur.



Deccan Chronicle. Dt. 12.10.2014



Delegates of the Metropolis World Congress visited the Hyderabad Metro Station at uppai on the concluding day of the convention on Friday.

Metro India, Dt. 14.04.2015

Skywalks to connect HMR, rly platforms

HYDERABAD

Metro Rail MD NVS Reddy on Monday said that metro stations would be connected to all railway stations and important bus stops in the city through sky-walks for the benefit of commuters.

The HMR MD was speaking at the A Ramakrishna Second Endowment Lecture on 'Hyderabad Metro Rail as an Engineering Innovation and Urban Redesign Opportunity' at the Institute of Engineers (India).

"There are two metro stations near Secunderabad station -- one on the east and second on the west side. The Secunderabad railway station has 10 platforms and all the platforms will be equinected to Metro stations through sky-walks. Similarly, connectivity will be given to MMTS stations and also important bus stations like Miyapur and MGBS," said NVS Reddy.

N V S Reddy said that Hyderabad Metro Rail was not being built as a simple mass transit system but was being viewed as an urban redesign opportunity to transform an Indian city into a people friendly and green global city.

He said, "Merry-go-round dedicated feeder bus services, bicycles and other



non-polluting last mile connectivity facilities at Metro stations, pedestrian facilities, aesthetic metro station surroundings with lots of greenery, street furniture, public art will be our contribution to the efforts to make Hyderahad a truly global city or 'Vishwanagaram' as being envisioned by the Chief Minister."

Stating that there had been many challenges for the metro right from its inception, Reddy said issues regarding procurement of religious structures at 16 places in the city had been quietly dealt with. He said best practices were followed in the Hyderabad Metro Rail as the best aspects of existing metros in the world were adopted.

He said that Hyderabad Metro was the first to use CBTC (Communication Based Train Control) technology and added that the Delhi Metro would too have this system in the next phase.



The Hindu, Dt. 19.04.2015

The Hindu. Dt. 03.05.2015

STRUCTURES TO BE RAISED OVER THE ELEVATED VIADUCT ON PUNJAGUTTA FLYOVER, ONE OF THE BUSIEST JUNCTIONS IN CITY

challenge but the fact that the parection is the braciest in the city and work has to be down without dampting the EXPERSE the fluorer or on growerd.

meens the task is just out for the metric real employees.

Construction of the lengthy Vaduct of about 190 ft without a per support including a single span of \$6 matrix will be done on the etc itself. "It will take about three to fine months to get the stadest to cross over Traffic will theur to more underwell and on the flyover as the space 14 ft from the flyoner," explained HMB contegling director NVS. Reddy From the road level below. will be little more than 62 ft high. The senior work will be done to three stages for the steel prient and otterste pouring to se set in place. Similar ceres of 196 it length are going to be Khairwished and M.J. Murket.

Traffic at a low cure by closely late. Traffic will execute a to more under must and on the figurer as the upon will be at least as matrix, high or executes having gented going for 14 ft from the flower theory administration big obligatory spans at junctions to take care of future traffic flows as the metro rad will have to cross over \$0 such junctions. Shoul \$6 junctions will have this kind of countryction and among there the lengthy single span presenters set at Parada Grounds DRO RS, Riv The City (US) fS) and Dppsi Habsigsule Bleenen Keran notion, Truncipals, Madhaput. INTELS R Yogac and Lakidikapal

Miyapur depot

Hain a Latterior's second

spread over a 100 acre site to

washed from Hysodic Batters.

The 16 three-mark trains

Metro rail engineers have their

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All the right stations mechanic

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Demolitions at Secunderabad railway station

While there projection to be acquired across the three corridors where the metro propert is the authorities are hipping swas simily achievement has

properties near the Judgies Chark Four proceed political. stoll legal wranging. Demotitions are specia

other attes.

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reibem station, Toursdgude, Madiurusaprent train operator.

year, Radha has clocked several nours of train operation, snoming from Uppal to Mattuguda twice everyday at 80 to 90 kilometers per hour.

Railway deployed its first woman loco-pilot for MMTS in 2012, who continues to be the only one in the profession.

Like Badha, six other young is not accidental. Armed women are among the 52 train operators HMR has hired.

Minister of State for Labour month training to become a and Employment, Bandaru Dattetreys, who pressed Badha for her career choice on fiaturday.

> 48 am of 45 km of 36 km foundations piers are of visibility are laid

HMR can boast of a young brigade of train operators

METRO RAIL TO RUN ON WOME



The Nagals depot of Explorated Metre Rail. (Right) Union Minister Bandore Dettatrens imperting Nagole overhead station. (Bottom) Numpally Radha, one of the seven women train operators. PROTOS G. NAMARINGONIA

ampally Radha lives life in the fast lane. Employed with the Hyderabad Matro Ball, this 23year-old is among the seven wimen holding fort as a train operator in a male-dominated

"This is a job that very few have. It was my dream to be a 'metro train operator," she matter-of-factly said when asked by several surprised journalists why she chose a profession that is seen as a man's job.

Her choice of profession with a diploma in electrical engineering, she took the six-

Since her deployment last

In contrast, the South Central

was lesen on knowing liow many other operators are women. A senior technical staff member said they were keen on hiring more women. HMR can boast of a young brigade of train operators as most of them are no older than 30 and have sound technical education.

The official also explained that though trains are sophisticated enough for automated operation, an operator's role is crucial, mainly in coordinating stops and operation of the aliding doors.

While the doors automatically, they HYDERARID and the adjacent train shed facility, and that well be closed by the Operator.

"These are fresh campus recruits, either technical graduates or diploma holders. And, they are being tested for sharp suffexes," said senior metro rull officers, unwilling to be guited.

Currently, LAT Metro Rail Hydershad (LATMIRH) rususing five or more trial runs on the Nagole-Mettuguda stretch or stage one of the construction schedule of the concessionairs building the project.



Mettuguda-Secunderabad service only next year

Mistro raid works between Mettuguds and the conderstand will be completed early next year, HMHL Managing Director NVS Reddy said un Saturday.

He sho clarified that no date had been fixed for specution between Mattugods and Nagols, the firs eight kilometre stretch reedy for operations.

Mr. Hoddy, who accompanied Union Minister 6 Labour Bandaru Duttatraya during an Inspection tour of the Nagole and Uppal overhead stations in corridor three (Nagola-Shilperumam-Raidurg)

physically and financially, as 36 km of visdu had been installed.

The Union Minister on his part assured that all cooperation was being extended by the Central government to the metro rail project.

He also promised support to farmers of Uppel area who had represented to him about delay in obtaining compensation for land they had given up for the metro rail development. The Minister was accompanied by Malkapigiri parliamentarias Ch. Mulls Reddy and Upput legislator NVSS Prabbakar. The metro rail project is being built a three curridors with the other two being - Jubilee Bus Station to Falakouma (Curridor two) and Miyapur to L.B. Nagar (Corridor one)



The Hindu, Dt. 03.04.2016

Another breakthrough in road-widening for Metro Rail

V. GEETANATH

HYDERABAD: Another longpending road widening stretch for the Hyderabad Metro Rail project got resolved here on Saturday. Following three years of painstaking negotiations, the Metro Rail authorities have been successful in persuading the Wakf Board and the Imadul Trust to shift the compound wall of the graveyard by 15 feet inside at the Srinagar Colony junction to pave way for works on Ameerpet-Punjagutta stretch.

For the 214 sqyards of open land of a family grave located at the junction under the control of Imadul Trust, the Metro Rail authorities have paid a compensation of Rs. 2.56 crore for getting the right of way for the 50-foot narrow stretch. HMR Managing Director N.V.S. Reddy said that



WAY CLEAR. The compound wall of the gravevard at Srinagar Colony junction being shifted to facilitate Metro Rail works between Ameerpet and Punjagutta. - PHOTO: BY ARRANGEMENT

the small stretch had been a severe bottleneck on NH 65 (earlier NH No.9) for decades. With the road widening and removal of electrical transformers, electric poles and other paraphernalia, the entire Metro Rail Corridor - I (Miyapur - SR Nagar; 29 km) would be now free from any obstacles for facilitating speedy construction on the corridor, he said.

The road at the junction was being widened by another 16 ft so as to take up construction of five piers/pillars by diverting some of the vehicular traffic through the old Goldspot building or Big Ba-zar building road. "We have explored several technical solutions with the L&T Metro Rail Hyderabad officials and the GHMC including constructing a cantilever flyover said.

to take the viaduct above the graveyard but had to give up once it was realised that foundations have to be put inside the site," recalled Mr. Reddy.

Since the L&TMRH engineers have completed the viaduct and the piers from both Ameerpet and Punjagutta sides, the small stretch remained as a 'gap' for the corridor work to be completed as the traffic police feared that the alternate roads may not be able to take the highway traffic load once the work starts without road widening, he

Now that the new compound wall has been built inside, road would be laid on the site acquired in about a fortnight before the piers work

Another 50 sq.yards site belonging to a private owner was also being acquired, he Metro India, Dt. 06.06.2016

Decks cleared for 'toughest' Metro Oliphanta RoB



weighing about 1,100 tons was fabricated and assembled at an engineering factory in Ghaziabad with high precision. To withstand the high stresses of different types that will be induced by such a large span and height, the high strength steel plates are joined by HSFG bolts which will provide necessary strength for the bridge

METRO NEWS HYDERABAD

South Central Railway has handed over one acre of railway land at Chilkulgoda on temporary lease for a few months to HMRL for assembling and launching se steel Metro Bail bridge over the existing Oliphanta railway bridge near Secunderabad station. With this L&T MRHL will soon bring the pre-fabracated steel bridge structure from Ghaziabad (near Delhi) to Secunderabad for commencing Oliphanta Metro ROB works, said Managing Director of HMRL NV S Beddy on Sunday.

Out of the entire eight metro rail over bridges being constructed in the twin crties, Oliphanta bridge construction is the toughest and an engineering challenge. Stiff conditions were imposed by the railways that no Metro pillar is permitted in between the railway tracks of Secundershad yard or in the railway

OUT OF THE entire eight Metro Rail over bridges being constructed in the twin cities, Oliphanta bridge construction is the toughest and an engineering challenge

land for future railway tracks; and that a minimum of 28 ft height above the Oliphanta bridge tracks shall be main-tained by Metro Rail for accommodating future double-decker trains. The Metro Bail main obligatory span had to be accordingly designed for a length of 275 ft without any support and with a height of 60 ft (6th floor level) from road level. Complicating further is the prescurvature. To take care of these technacal needs, a specially pre-fabricated high strength steel truss structure with spe cial steel plates and steel bolts and high Quality welds is being used for this bridge construction.

The entire steel bridge weighing

about 1,100 tons was fabricated and assembled at an engineering factory in Ghaziabad with high precision, To with-stand the high stresses of different types that will be induced by such a arge span and height, the high strength steel plates are joined by HSFG (High Strength Friction Grip) bolts which will provide necessary strength for the bridge. The assembled bridge will be dismantled piece by piece at Ghaziabad and brought to Secunderahad by July. Meanwhile, a temporary multi-pillar support structure called "trestle structure" for a length of about 500 ft would

Originally L&T planned to launch the steel bridge girders from Lekha Bhavan Gopalaparam Police station side. This would have been possible only after the completion of "Secunderabad East" Metrostation (of Corridor-111) in front of Lekha Bhavan and it would have do layed the bridge construction and the Metro project by one year. To avoid this delay, NVS Reddy suggested Jaunching of the bridge gleders from Chikalguda side with parallel construction of the Metro station and persuaded L&T to rework their launching scheme. Now with the railway authoraties handing over the land to HMRL, preparatory activities for the bridge construction have commenced. Beddy has thanked GM. SC Railway Ravender Gupta for sparing the relibuar land and for giving approva for the Metro RoB construction. The hridge construction will be completed by January next year, he added.



The Hindu, Dt. 18.09.2016

Metro 2nd construction stage gets safety clearance

Miyapur to S.R. Nagar comes under this stage.

SPECIAL CORRESPONDENT

HYDELAND: While there is no official word yet when the Hydershad Metro Rail will begin its commercial operarious, it has now come to light that the second construction stage of the penject, from Miyapur to S.R. Neger has also been given safety certification from the Continuouser of Matro Rall Safety (CMRS) recently. Last year, the first outstruction stage from Nagole to Mettuguda got safety certification from the designated authority which can now allow the LAT Metro Rail Myderabad to throw it open for the general public.

This aspect came to lister during the detailed prescutation made by HMR managing director NVS. Reddy to the Committee of Public Undertakings of the Telangana Legislature under the chairmanship of N. Devakar Rao when it reviewed the project progress here on Saturday.

Explaining the challenges faced by the project including some 200 court cases permissions, issues permining to sensitive structures etc., and as to how they were tackled, he indicated that 68 per cent of the project was completed. Out of the total 72 kmi, foundations in 59 kms, pillars in 56 kms and viaduct in 47 kms were completed so far, he told the



OREGING AND AD Out of the total 72 km, foundations on 39 km, pillers on 56 km and viaduct on 67 km have been completed so fac express

Over the last few months, trial runs have been going on day and night on the second construction stage of 12-km. stretch falling under Cor-ridor One - Mhyapur to LB-Nagar, Similarly, trial runs including public announcements and other drille are continuing in the first construction stage coming (ander Corridor three - Nagale to Shilparaman-Raidurg) which stretches up to eight kilometres.

Altogether, the metro rail authorities are ready to start operations for 20 km,

and LE/TMRH sect ou some 'asses' causing serious concem among both sides. There are security issues, last mile connectivity compensation for they in providing right of way and so on even if different dates are being bandled about on when the services will be

Manwhile, the Legisisture Committee appreciating the progress, quality of works, safety standards and advanced features of the hipderabad Metro Rad system, also made werom suggestions regarding sady provided the government completion of Phase I.

selection of routes for Phase-Il estention, creation of parking and other facilities at important metro stations, etc. The panel also noted that the project has already won about 20 national and international awards during the construction stage itself.

MLCs Karne Problemar V. Bhoopal Reddy and Pools Raytnder, MLC, Chinta Prabhakar, Ml.A. Special chief secretary, MARUD M.G. Gopal; Secretary, Leg-Islature Raja Sadarsen and other senior officers of MANUD Department and HMRI, participated in the

The Hans India, Dt. 01.12.2016



Chief Minister K Chandrashekar Roo holding a high-level meeting with officials of HMR and L&T in Hyderabad on Wednesday

Speed up Metro rail works, **KCR** directs officials

In a meeting with L&T Chairman S N Subrahman and others, the Chief Minister sel November 2017 deadline to complete Miyapur-LB Nagar main section and August 2018 for remaining works

OUR BUREAU

Byderabad: Chief Minister K Chandrashekur Rap on Wednesday stressed the need to speed upthe Hydershad Metro Rad protect.

RCR, who held a meeting with L&T Metro Chairman S M Sabrabchangen and other officials here. said the State government was ready to extend all cooperation to the firm in the execution of the

project, a release from his office said. He fevoured early completion of works as the Metro rail project would resolve traffic worse in Hydershad to some extent, It was decided at the meeting that the Miyapur-LS Nagar main section of the project be completed by Novembor, 2007 and that the remaining work wrapped up by August, 2018, the release enid

The Hydersdad Metro Rail

project is the world's largest Public Private Partnership (FPP) in the metro sector. The metro network would cover a distance of around 72 kms across three corriders in the city. Overall, 67 per cert of the total work was compirted till September 30, 2014. L&T Metro said in October. The project, being built at a cost of He 16,375 eroce, was initially schoolulec to be opposited by July.



Deccan Chronicle, Dt. 14.12.2016



Travis Kalarick, founder and CEO, Uber, and Minister K.T. Rama Rao ride the Uber Moto cab launched on Tuesday.

Metro, Uber tie up to help commuters

DC CORRESPONDENT, HYCERASAD, DEC. 13

Wilco-shering Moto will provide last mile connectivity to Hydecebad Metro Rail for citizens who opt for affordable transports-

tion for about distances.

The Uberbioto service
will start from Jamesry
2017, it will cost 710 for the first three kilcene tres and to per kilome-tre thoreacter These feeder services have been designed for short ar distances that people have to travel.

The hike text which comprises Scooty and driver uniformed which can be booked via the smartphone Uberapp Details of the drivers will be evaluable in a few mirates and the driver has to ensure a convenient and reliable ride for the people. Presently, there are only male drivers in the bile taxt but Uber states that they are open to recruiting Semale drivers also:

The product was Minister. Chandrashekar and IT Minister K T Rame Rap along with Pounder and Chief Executive Officer of Ubar, Provis Kalanick

TRANSPORT ON TWO WHEELS

Uber app will work both on IOS as well as Android mobile phones.

Both the rider and the driver will have to wear a helmet as per the law.

Payment for the trip can be made in eash or through credit/debit card or mobile wallet. An electronic receipt will be provided via Uber

who rode the bile for a

Mrk TRama Sec stated that UberMoto Will halp solve transports-tion and congestion problems. The less mile connectivity of the metre rati will also be metro rail will also be entablished via these bile taxis. The stan-dard safety features of starting the GPS sys-tem during and after the bile rick, will be fol-lowed A two-way feed-back and ability to share trip details with feature and friends will family and friends will be encouraged.

Telangana Today, Dt. 07.01.2017

Gaining Momentum Realty sector set to stage a comeback

Hyderabad Metro Rail likely to reinforce positive real estate sentiments

T LAUTE SINGIL CHEMPAGE

After a prelonged slow down, the real estate sector in the city is starting to gain. momentum with the Hyderabad Metro Rail is all set to start chagging in the coming months. The project, not ast another transport mode but an urban rejevenation initiative, is expected to provide an impetas to the property sector in the city and its suburbs.

With unsold stocks that piled up during the slowdown starting to clear and potential buyers evincing erevest, the realty sector

Given the magnitude of the Metro project and its a senior builder. service crisscrossing the city, coupled with the plans to have feeder services to the extended suburbs, the Sorce the positive real escata

The property prices have here too. already been inspired along the corridors of the project. more activity could be as- sure Hyderabad too will re- level," Reddy adds.

OO peat similar success," he

Oriented Development (TOD) scripted success for Singapore and Hong Kong. "Some way, it is not just

- NVS REDDY

tional, albeit in phases.

Growth of a city

wherever a metro

project was taken

up. Hyderabad will

repeat the success

has happened

"What starts with Metro appears poised to stage a corridors will soon permeareas too will benefit," says Metro Rail will add to the

Hyderabad Metro Rail NVS Reddy cites the posiproject is expected to rein- came with Metro Rati in

City builders concede that was taken up and we can be other city operating at sky

Introduction of Transit

parts but the whole city that will witness reluveration and register substantial gains," he assures. Apart from the corridor

vicinities, the HMR has worked out plans to provide fineder services to areas bepected in the real estate your and this better condealings as works for Metro nectivity to the Metro will Rad reach culmination and ensure a rise in property the project becomes opera- prices there too, Reddy argues. Brand Hyderabed with rapid developments in the field of IT investments and ate and we are sure other improved infrastructure.

The concept of skywalks (HMR) Managing Director, connecting metro stations with educational institutive results for a city that tions hospitals and government buildings among othother countries and is confi- ors is all set to redefine the deat the same will happen city, he says. "The skywaika will provide tremendous *Growth of a city has hap boost and you will see one pened wherever the project city at the road level and an-

image building of the city.

GAME CHANGER: City halders expect a narearcoast in the real enter sector after the completion of the More. Half Project.



Hyderabad Metro Rail project in PPP mode

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World's largest Metro Rail project in PPP mode
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3 high density traffic corridors (72 km) taken up in phase I

Miyapur – L.B.Nagar (29 km; 27 Stns)

Jubilee Bus Station – Falaknuma (15 km; 15 Stns)

Nagole – Raidurg (28 km; 23 Stns)

Total no of stns -64; Interchange stns -3

Project Cost: Rs.14,132 Cr.

Rs.1,458 Cr. (10%) as "Gap Funding" by GoI and balance by Concessionaire L&T (Rs.12,674 Cr. i.e., 90%)

Additional Rs. 3,000 Cr. by GoTS for land acquisition, shifting of utilities, R&R, pedestrian facilities, urban redesign, etc.

CP: 35 yrs +25 yrs

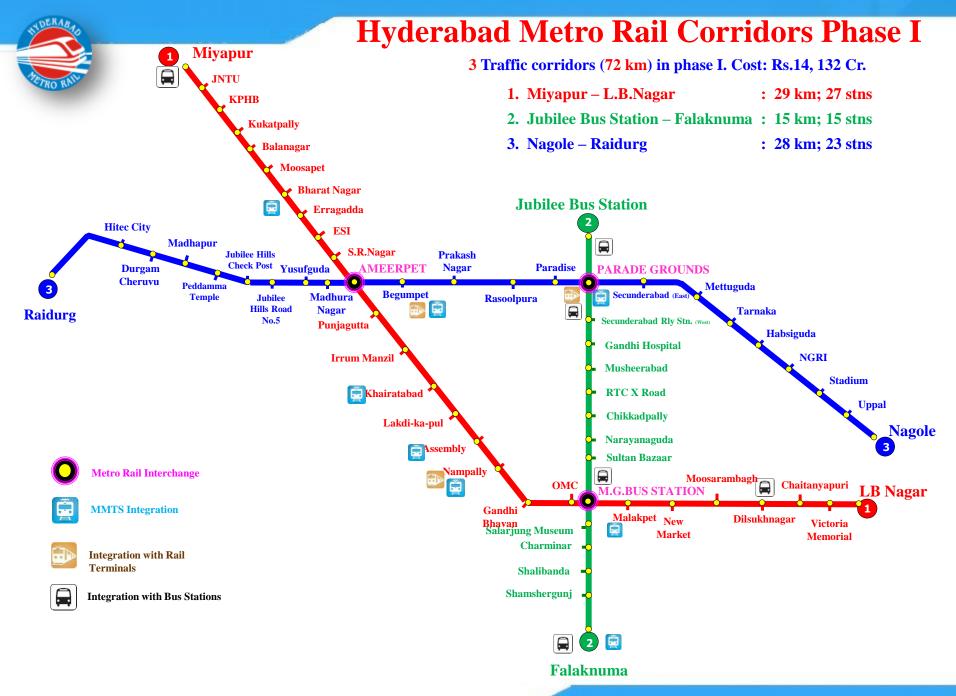
269 acres for 3 Depots and P&C areas

Property devpt through use of air space – property cannot be sold

Lease rentals during CP to cross subsidize passenger service losses

Revenue model: Avg. 50% from passenger fares; 45% from lease rentals; 5% Misc. (Advt.; parking etc.)

Property + Rail system to revert to GoTS at the end of CP





Smart Tech for a Smart City Metro

Intelligent trains – CBTC

OCC at Uppal – sophisticated signalling, train control & communication (Thales, Canada & Portugal)

AFC gates – NFC (Samsung, S.Korea)

Ultra modern coaches – ergonomic design (Hyundai Rotem, S.Korea)

Ballastless tracks – head hardened rails (Tata Corus, France);

Latest fastening systems (Vossloh, Germany); riding comfort and low decibel levels

Regenerative braking – upto 35% energy to be fedback

85% precast method – India's largest urban precast yards (Uppal & Qutubullapur)

Stations on single central piers (spine & wings)

Usage of global coordinates and DGPS for planning of alignment – Refinement to avoid religious/other sensitive structures

Innovative & pragmatic LA



Smart Tech for a Smart City Metro

Sleek piers with single pour concrete – aesthetics

Minimizing pier widths to 2m at road level -2 tracks on top = 7 bus lanes/24 car lanes

Long term solutions for rd jns-longer obligatory spans

Usage of curing compound

Usage of Track Master for laying of Metro tracks

Multi-tasking & elimination of multi departmental approach of Rlys – station design & operational efficiency

Easy connect between core of the city & outskirts

Not a simple transport project – urban redesign & rejuvenation effort

City will completely change – pre Metro Hyderabad & post Metro Hyderabad



Tackling Challenges

Land Acquisition & Road widening:

Acquisition of 204 Ac pvt. Land & 3000 properties

Setting up of 2 India's largest urban precast yards – Uppal (70 ac) & Qutbullapur (64 ac)

Land pooling at Uppal (800 small farmers) & prolonged litigation at Miyapur

370 court cases – 360 won so far

Alignment refinement to take care of urban/social sensitivities – avoidance of religious/heritage/other sensitive structures

Fixation of station locations – max traffic catchment, existing road levels, major utilities, etc.

Usage of DGPS; knowledge of city traffic, road conditions & utilities



Tackling Challenges Contd...

Coordination among Central & State Govt. Depts/organizns & other stakeholders

Permissions from Rlys; NH; Defence; Airport Authority etc.

Handling agitations; Ring fencing the Concessionaire

Shifting of utilities; traffic facilitation works

Felling of trees (5000) with compensatory plantation/translocation – 3000 trees removed with plantation of 5 lakh saplings & translocation of 2,000 trees

8 Rly Xings (upto 22.6 m/74 ft ht & 83 m/272 ft spans); - 11 Flyovers (parallel/perpendicular); & 80 jns with huge obligatory spans upto max of 58 m (190 ft)



METRO RAIL – Some technical features

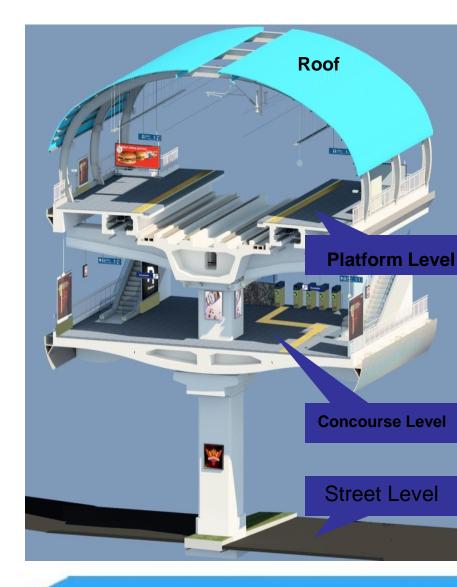
- Noise sensors in each train to detect noise level
- AFC at all Stations; Contact less smart card system
- Integration of AFC with MMTS/Suburban/Bus system
- Entry to Stations with Escalators, Elevators & Stairs
- Users access to real time travel info
- Users access to Intermodal connectivity
- Sufficient parking space on pay per entry basis
- CBTC Signalling System (first time in India) leading to reduced headways



Stations

- Cantilever type stations Spine and Wings Construction
- Open Stations with 3 levels (G-C-P)
- Size: 138m * 20m





Cantilever type Metro station resting on the central pillars





Hyderabad Metro Rail project as "Transit+"

- Integration/interchange with existing Rail terminals, MMTS stations & Bus depots
- "Merry go round" feeder buses between Metro rail stations & catchment areas > "seamless travel" facility – on same ticket
- ✓ Not a simple Metro, but an urban redesign & rejuvenation effort to transform Hyderabad into a people friendly green city
- ✓ 'Transit+' concept: Last mile connectivity with NMT, pedestrian facilities & street furniture
- Eco-friendly stns with natural ventilation, ramps, escalators, elevators etc.



Facilitation Works

(How we achieved it)



Widening with CC pavement at Uppal jn. (towards Nagole)



Before



After



Widening Culvert between Nagole and Uppal

Facilitation works – Covering of open drains









Formation of slip road to skirt Mysamma Temple at Nizampet road







Demolition of Jabbar building

Demolition of BHEL building

Construction of Integrated School complex at Kukatpally









Construction of MRO & RDO Building at Nampally

CONSTRUCTION OF JUDICIAL ACADEMY





CONSTRUCTION OF PUTLIBOWLI COMPLEX





Hyderabad Metro Rail – Green Initiatives (5,20,000 saplings planted)







Translocation of Trees (2015)











Translocation at ORR



Metro Rail for a Global City

(Works in Progress)



Foundation and Viaduct



Utility probing being done to verify presence of any utilities at the site



Soil Load Test being done before constructing Metro Rail Pier



Laying PCC Bed for Foundation – CLSM (Controlled Low Strength Material)





Pier Construction Stage



Pier Construction using Boom Placer for evenly filling the concrete





Security Barricade

Shuttering

Road Barracading and Pier Shuttering



Uppal casting yard

Before



Present





Before



During

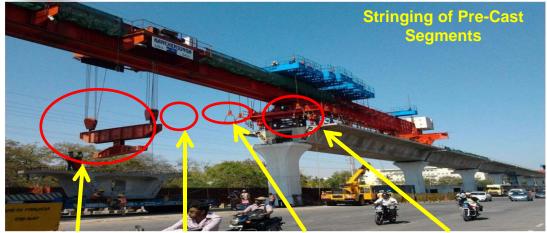


Uppal Depot



After





Traveller For Lifting and Shifting Segments

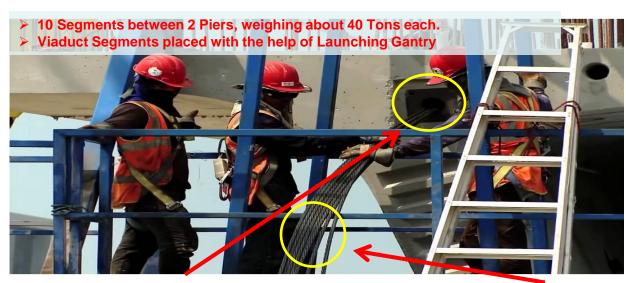
Slings for holding **Viaduct Segments**

Launching Gantry

Segments under-slung for Sticking & Stitching



Erecting Parapet Wall on the Viaduct



Duct in Pre-Cast Segment



Row of well shaped piers (pillars)



Metro viaduct crossing at Malakpet flyover



Aesthetic construction of elevated viaduct



Metro Viaduct crossing flyover

Station works







Metro Station Construction-Pier & Segment Stage

Metro Station Construction-Spine & Wings Stage



Metro Station Construction-Roofing Stage



Metro Rail station-Lateral View



Uppal Depot Progress

Admin/OCC Building







Test Tracks





Annexe Building

Work Shop

Aesthetic construction of elevated viaduct



Launching Girder – construction equipment used to build elevated viaduct





Over Head Electrification Masts (OHE) viaduct with a parapet wall

Punjagutta flyover crossing





Metro Rail Over Bridge (ROB) at Chilkalguda





Cantilever type Metro station resting on the central pillars



Concourse level of Metro Station



Staircases and Escalators of Metro station

Platform level of Metro Station

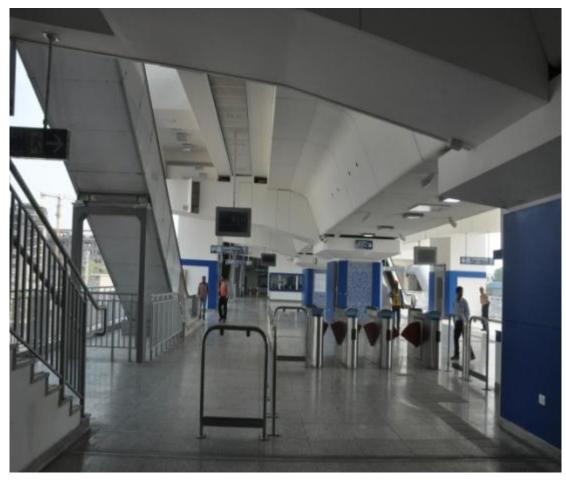




Ticket Vending Machine



Automatic Fare Collection gates



A view of concourse level of Metro station



Hyderabad Metro Train





Current Status of Hyderabad Metro

- ✓ 67 km foundations (93%); 67 km piers (93%); & 66 km (92%) of viaduct completed so far
- ✓ Depot works at Uppal (100%) & Miyapur (100%) completed so far pier, viaduct, Signaling, Telecom, Track, OHE works etc., in full swing
- ✓ All the 57 Train sets (3car) arrived & undergone tests
- ✓ PM Shri Narendra Modi inaugurated Hyderabad Metro project on Nov 28, 2017
- ✓ Commercial operations of 30km (Miyapur-Ameerpet 13 km + Ameerpet-Nagole 17 km) opened from Nov 29, 2017
- ✓ Train services extended from Ameerpet to LB Nagar (another 16 km) on Sept 24, 2018.
- ✓ Ameerpet to Hitec City (10 km) was commissioned on March 20, 2019
- ✓ With 56 km operational length, 2nd largest Metro Rail network, next only to Delhi



Transforming station surroundings, street scape & access development

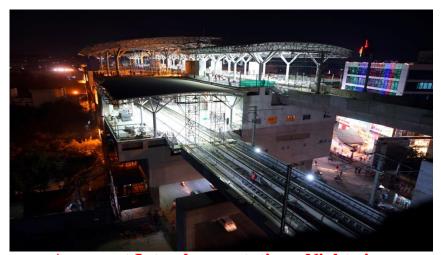




Metro station at Concourse level



Hyderabad Metro Rail - Typical station



Ameerpet Interchange station - Night view





Streetscaping, Parking & Pedestrian facilities, etc., at **Miyapur Metro station**



Streetscaping, Parking & Pedestrian facilities, etc., at **Miyapur Metro station**



Streetscaping, Parking & Pedestrian facilities, etc., at **Nagole Metro station**





Streetscaping, Parking & Pedestrian facilities, etc., at **NGRI** Metro station



Designer sidewalk development by HMRL at Jubilee Hills Rd.36



Streetscaping, Parking & Pedestrian facilities, etc., at Habsiguda Metro station



Designer sidewalk development by HMRL at Jubilee Hills Rd.36





4M WIDE HIGHWAY P.V SOLAR PANELS CITY SERVICE BUS STOP 7M WIDE SERVICE ROAD INTER-CITY BUS STOP

Integration of Bus, car & Auto bays







First/Last Mile Connectivity



Go-Green initiative by Rotary Club of **Cyberabad- Donation of PEDL smart bicycles**



Bike stn @ **Nagole Metro Stations**



Proposed charging facility @ Metro stn



Drivezy Bikes Launch



Zoomcar Launch at Miyapur Station



Proposed charging facility @ Metro stn





2-Wheeler Parking @ all stations



Skywalks



Bus Stop





Urban Rejuvenation works done by HMRL along Metro corridors & Stations

Uppal



NGRI





Before

After

Before

After





Erragadda





Before

After

Before

After





Miyapur









Jubilee Hills Checkpost to Hitec City









Awards Galore

(Several Global & National Awards in the nascent constn stage itself)

"Global Engineering Project of the Year 2013" Award by Global Infrastructure Forum in New York



RoSPA (Royal Society for Prevention of Accidents) 'Gold' Award for Construction Safety and Occupational Health for the years 2013, 2014 & 2015 at Glasgow (UK)



"Best Metro Project" for the years 2013 & 2014 and "Best Upcoming Metro Rail of the Year 2015" by the Construction Week India, Mumbai



8

"American Concrete Institute (ACI) Award" for the year 2013 at Mumbai



9,10

"International Safety, Quality and Environment Management Awards" for the year 2015 by ISQEM at United Kingdom



12

"Skoch Platinum Award" for the year 2016 at Hyderabad



13

"Best Upcoming Metro Rail" by ITP Publishing Group at the 5th Annual Metro Rail Summit 2016, New Delhi





Awards Galore





































Awards Galore

Contd...



























Ambitious project requires an extraordinary leader

- Manager vs. Leader
- Vision & sharing of vision with the team
- Passion for the Project
- Commitment to Excellence
- Guts & ability to take Calculated Risks
- Courage of conviction
- Determination, dogged perseverance & extraordinary patience
- Be prepared for failure & ridicule
- Develop a capable & committed team make it a messianic force with killer instinct
- Make each team member a 'winner'
- Strict personal discipline
- Leadership by example



Ambitious project requires an extraordinary leader

- Hard work & punishing schedule
- Raise the bar continuously
- Open minded approach & no blinkers
- Inter disciplinary & cross cultural perspective
- Clarity of thought
- Clarity in communication
- Empathy & understanding
- Constant innovation out of box thinking & solution
- Effective communication both within & with outside world
- Good public relations & communication strategy
- Encourage trust & be reliable
- Be positive & snatch victory from the jaws of defeat

















Passengers overjoyed to travel in a world class system – huge crowds thronging Metro stations





MD, HMR Mr. NVS Reddy receiving "The Global Engineering Project of the year Award" at the Global Infrastructure Leadership Forum in New York (Feb 2013)



Mr. NVS Reddy receiving the "Professional CEO of the year 2019" Award of The CEO Clubs of India from Mr. KT Rama Rao (Feb 2019)





Thank you