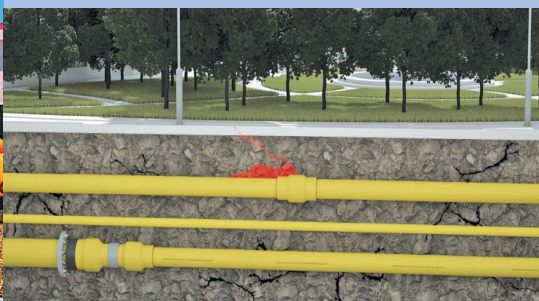
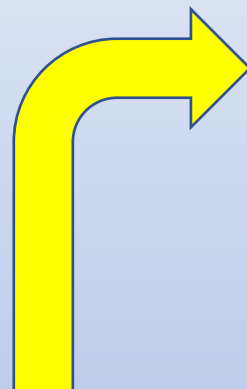


PLAN FOR PIPED NATURAL GAS



What is PNG

- PNG is Piped **Natural** Gas, which is declared as safer and more environmental alternative to LPG
- It is nothing but **naturally occurring methane extracted** from Fossils
- PNG is sourced from erstwhile USSR, Gulf and Canada and brought to India by ship just like Crude (Cooled and compressed into liquid)
- Much lighter than LPG, so it will dilute faster in air and spreads out, hence there are no chances of explosion or catching fire.
- Distributed at **very low pressure** to apartments
- **Lower Carbon Foot print** compared to LPG, Diesel and Petrol.

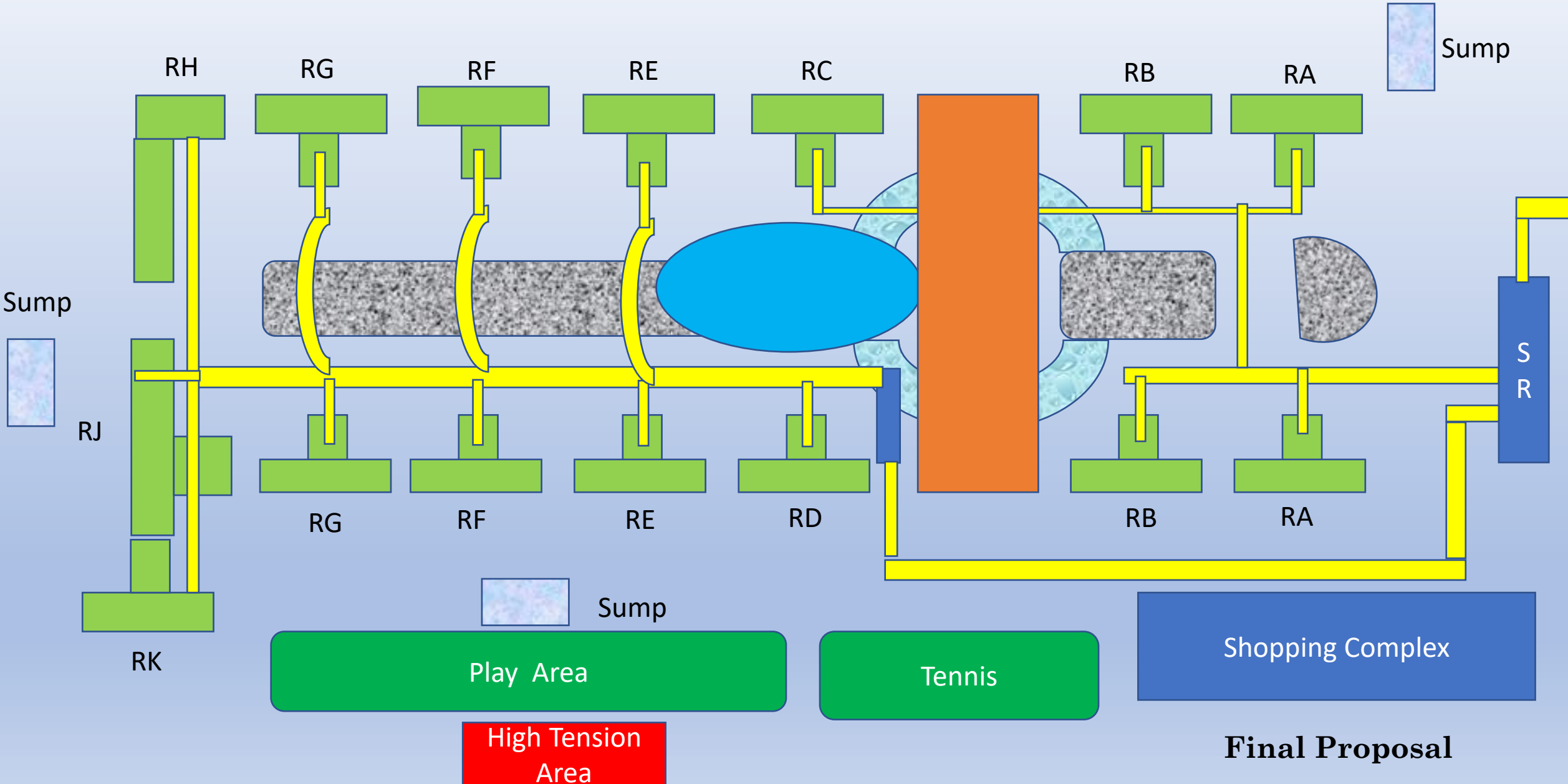


How is Residents Purva Riviera going to benefit

- **Safety** : Every LPG cylinder can be source of explosion (we have 800 X 2 cylinders at any time in Purva Riviera. With PNG there is not need of local storage)
- Much more cost effective (30% lesser than LPG)
- Being much lighter than LPG, carbon emissions are far low
- Pay as you use (Consumption is metered)
- **No need to moving cylinders a changing them which can be cause of a leak**
- **In future we can replace our Diesel Generators with PNG equivalents. Reduces expenses and bring our monthly maintenance from increasing – No black smoke towards 9th floor**

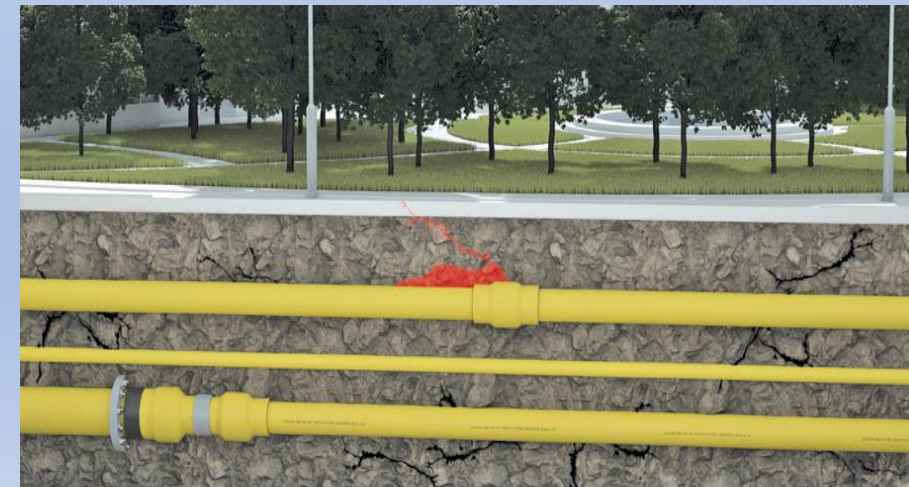
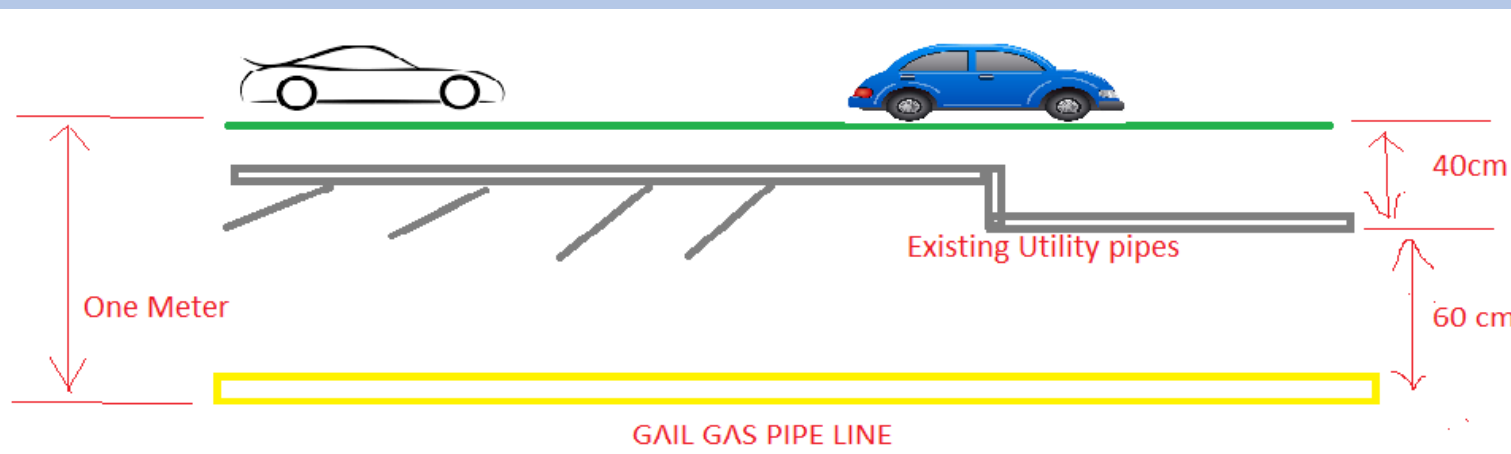
Plan for building a PNG Distribution network
within Purva Riveria

High Voltage Electrical Appliance BESCOM



Impact on Existing Infrastructure

1. Most of the distribution pipe are pulled through basement, the pipe will run along the roof with very less impact
2. One service regulator need to installed some where between RD and CH.
3. Another service regulator in the small area opposite ampi (close to entry gate)
4. Pipes from SR all the way to CH will be high pressure and it has to run 1 meter below the surface
5. As the GAS pipe run 1 meter below the surface there won't be any impact to existing pipe
6. Space near fencing area (PR and shopping complex) is identified to run the gas pipes
7. As GAS pipe run along the western border 1 meter deep, there won't be any impact the traffic much while digging
8. We do not have dig the whole drive way, instead GAIL will be use to mowing method where the dig a pits of 1 meter in diameter at distance of 5 meters through which they pull the pipes



Investment need by PRAOA



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No Major investment needed by PRAOA for this project, as the man, material and execution cost will be 100% covered by GAIL

Minor Investments

- Cost of building few brick walls for installing service regulators
- Installation of GAS leak detection sensors as basement
- Training security and our staff to operate Service regulators and valves
- One resource from PRAOA staff to oversee the implementation
- Take up painting after the pipe line installation (Point to discuss)

Challenges

BBMP approval from pulling pipe line from Road – We need to dig the newly tarmacked road

Minor impact to drive way for a week or more

Traffic movement in B –Side basement