

Experts from the Agenda of Trust Meeting dt 18.07.2018 from Finance Desk.

1. Summary of net saving from infrastructure works in BN Campus carried out in 2017-18:

<u>Infrastructure Works:</u>			<u>Estimate</u>	<u>Actual Expenses</u>	<u>Savings</u>
1	Auroville Water Service				
	OHT distribution & delivery	658894			
	Borewell to OHT connection	302412			
	OHT to distribution delivery for irrigation	<u>50207</u>	1,011,513	1,063,388	51,875
2	Auroville Electrical Service				
	External Service connection materials	3436590			
	Labour for works	<u>330800</u>	3,767,390	2,972,497	794,893
3	Auroville Telephone Service				
	Telephone Cables	67165			
	Laying of cables in DW pipes	84013			
	Labour charges	<u>3200</u>	154,378	72,166	82,212
4	Auronic				
	Optic cable boxes and connectors		247,675	427,771	180,096
	Total of Infrastructure works		<u>5,180,956</u>	<u>4,535,822</u>	<u>645,134.00</u>
5	Road Works	3893090			
	Work Order-2	495000	4,388,090	3,285,242	1,102,848
6	Auditorium Accoustic carpentry work		866,097	590,000	276,097
7	Termite Treatment in BN Campus	Pest Control	<u>450,000</u>	<u>118,821</u>	<u>331,179</u>
	Total		<u>10,885,143</u>	<u>8,529,885</u>	<u>2,355,258</u>

2. Bhart Nivas Toilet Block.

Dr.Kothandaraman from PEC approved the Toilet Block preliminary estimate based on the Plinth area rate which is not a detailed estimate. The estimated cost as certified was Rs.19,40,508-00 including the DEWATS System (waste water treatment system).

For this project Suhasini was the Architect and Logu was the contractor, Logu executed the work and submitted four running bills without bill of quantities for Rs.20,13,835/- without constructing the DEWATS System. After sever reminders and number of meetings corrected running account bill from his end was received. Attempt was made to match the projected estimate as final bill amount highlighting extra amount and without constructing the DEWATS System, due to which the Toilet Block was not commissioned.

The claim of the contractor was in excess of PEC approved cost without constructing the DEWATS System, Shri Govind, WAT Member was requested to verify and certify the total cost. **After his verification it was found that a sum of Rs.4,20,815-77 was excess undue claimed.**

After collating the advances paid and deduction of 5% retention money the recoverable amount worked out as Rs.3,01,675-00 combined from Architect and the contractor.

Trustees may take immediate action for the recovery of the amount.

3. Wasteful expenditure on Rain water harvest Design & executed by Shri Angad (Rocket Science Engineer) Rs.6,61,195-00.

During the last rainy season the water had flown back into the basement of Kala Kendra rather than going to the open well it has happened several times and we have to incur wasteful expenditure to pump out the water from Kala Kendra basement.

The observation made by Shri Govind is submitted for kind information.

1. The harvest rain water through the network of rain water collection system is diverted to an Underground sump of approximate volume $4.1\text{m} \times 2.15\text{m} \times 2.5\text{m} = 22\text{ cum}$. The collected rain water is allowed to overflow in to the open well through a sand filtration system executed adjacent to the well.
2. The very purpose of executing such a system is not understood.
3. The purpose of reuse of harvested rain water is not envisaged neither is being used.
4. The inlet to the Rain water harvesting UG sump having volume of approx 22 cum does not have any inspection chamber at the inlet. All the pipes coming from different directions are directly entering the UG sump.
5. There is no provision of silt trap as a result the storage capacity of UG sump will get reduced as the silt volume increases inside the UG sump.
6. Also, the presence of silt inside the UG sump will increase the turbidity of harvested rain water.

7. The removal of collected silt inside the UG sump is a difficult task as compared to the silt removal from a silt trap.
8. I was requested by Mr Angad to look at the steel reinforcement of UG sump being laid in position and I discovered that instead of double layer of steel reinforcement in the bottom slab as well the upright wall, the bar benders were executing the steel reinforcement with a single layer. This would have resulted in complete failure of the UG sump structure. Also, there was no working space around the excavated trench and it was almost impossible to use the shuttering for the outer wall surface. The concreting is pored after laying a polythene sheet around the excavated wall surface.
9. Last week, it has been observed that the flow of Rain water volume being collected and diverted through the UG sump is much lesser than the gushing rain water from the roof surfaces as a result flooding and back flow of the rain water inside the open courtyard. The water level of the courtyard is raised and water overflowed through the newly made window into the Archives office and carpets got wet. Nearly, 25 cm of water level was raised in the courtyard.
10. Overall, it can be concluded that creating a rain water collection network needs to be looked upon and a silt trap shall be created before allowing the rain water to enter the UG sump. The overflow at the implemented sand filtration system near the open well shall be created to avoid back flow of water due to high discharge into the rainwater collection system during high intensity of rainfall.

Immediate corrective measures should be taken, otherwise water must be seeping through the foundation and over a period of time cracks may develop and damage the structure.

4. Sri Aurobindo Auditorium Acoustic work.

The estimate submitted for Auditorium Acoustic work Designed, Planned & executed under the guidance of Shri.Angad (Rocket Science Engineer) & Sound Wizard was for Rs.42,94,336-00.

However, as on date the total expenditure incurred on this incomplete work is Rs.51,01,034-00. Statement attached.

Further, total 57 clouds have yet to be fixed, the total cost of this work is not known but the work has commenced by Aureka as decided in the meeting dt 3rd July,2018 in the Foundation Office with Sound Wizard, Bhart Nivas Trustees, Jean, Toine.

A detailed justification is required for the cost escalation and the same needs to be ratified by the Secretary, Auroville Foundation before any further release of payment on this item of work.

Further, during the scrutiny of the entire acoustic work Shri Govind, WAT Member has reported that there are some missing items of materials etc the total value of which works out to Rs.2,34,553/- and its salvage value is Rs.1,98,739-00. Detailed statement is attached. As per the statement the major amount for the item not 7 & 8 for the missing Acoustic Fibrate Panels & acoustic wood Panel works out to Rs.1,47,976/- which has to be recovered from Ravi, Carpenter. Further, the entire Carpentry work bills of Ravi has been fully settled.

The total excess payment of Rs.1,98,739-00 needs to be recovered immediately. Trustees may kindly decide.

Sathyanarayan.