

## E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai (Accredited by NAAC with 'A' Grade and NBA) Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

## **CRITERION 7 – INSTITUTIONAL VALUES AND BEST PRACTICES**

METRIC	PARTICULAR
7.1.4	Water conservation facilities available in the Institution:
	Rain water harvesting
	Borewell /Open well recharge
	Construction of tanks and bunds
	Waste water recycling
	Maintenance of water bodies and distribution system in the campus

HEI Input	A. Any 4 or All of the above

**DVV Suggested Input** C. 2 of the above

DVV CLARIFICATION	HEI RESPONSE
HEI needs to provide the geo tagged photographs, Bills for the purchase of equipment for the facilities created under this metric. and Any other relevant proof for the selected options.	Geo tagged photographs of Rain water harvesting, borewell, open well recharge, construction of tanks and bunds, waste water recycling, Maintenance of water bodies and distribution system in campus are provided. Bills for the purchase of equipment for the facility Rain water harvesting, open well recharge, Waste water recycling (Sewage water treatment) are provided. Bills for purchase for the equipment for construction of tanks and bunds, Maintenance of water bodies and distribution system in the academic year 2021-22 are provided.

Options	A. Any 4 or All of the above
Vriteup:	

The institute have Rain water harvesting in six places and 30,60,000 Liters can be stored in the pond near to SJ Block. The institute have two borewells and one open well recharge. Each block has water tanks. Two RO plants used to purify the drinking water and it is distributed to all the blocks. Waste water recycled and used for watering the plant.

SI. No.	Particular	Links
1.	Rain Water Harvesting	<u>Click Here</u>
	The college depends on ground water for all its water needs.	
	The daily requirement of water in the campus is around 215000	
	liters.	
	Our Institution has Rain water harvesting facility within the	
	campus. Several rainwater harvesting pits are constructed in the	
	campus to improve the groundwater level which quells the water	
	scarcity problems in our campus. Percolation pits are made with	
	perforated concrete slabs through which the rainwater enters the	
	underground tank where filiation takes place through Grating.	
	The rain water is collected from the rooftop buildings and in	
	open areas with a high run off coefficient. The collected rain	
	water is directed in the percolation pits located at feasible points	
	inside the campus to recharge the ground water.	
	The rain water harvesting sumps has a provision of collecting	
	almost eighty percentage of the rainfall. The filtered water is	
	then collected through perforated pipe and directly gets mixed	
	with the underground water table. The college campus depends	
	on ground water for all its needs and the daily need of water in	
	the campus is around 1,20,000 liters (approx.,).	
	The stored water percolates into the ground to recharge	
	ground water. The rain water coming from roof tops and that	
	flowing within the campus are collected in ten numbers of	
	percolation pits of 4m x 4m size each, constructed at all feasible	
	points in the campus recharge ground water.	
	The rainwater harvesting pit is located in the SJ Block, PG	
	Block, GG Block, Mechanical block, civil lab and ladies hostel	
2.	Bore Well / OPEN Well Recharge Water crisis as a result of climate change though altered	<u>Click Here</u>
	annual rainfall and river flow regimes, affected the groundwater	
	recharge rate. Prevention of stress on ground water can be made	
	possible by way of recharging the ground water through	
	scientific watershed management.	

	The college campus depends on ground water for all its needs	
	and the daily need of water in the campus is around 1,20,000	
	liters (approx.,). To compensate the mentioned daily need we	
	had constructed bore wells with different depths as per the sub	
	soil water position and all are recharge regularly with harvesting	
	ponds and soak pits.	
	Bore wells are constructed in feasible points inside the college	
	premises near rainwater harvesting sumps for easy recharge.	
	Bore wells are constructed inside the college premises for easy	
	recharge. The stored rain water can be effectively utilized to	
	revive the bore wells. The bore wells are periodically monitored	
	and kept in good condition by the plumbers with necessary	
	actions to rectify the problems.	
	Location of bore wells	
	Bore well 1- Infront of SJ Block	
	Bore well 2- Near Parking Area	
3.	<b>Construction of Tanks and Bunds</b>	Click Here
	As the water ensis continues to become severe, there is a three	
	need of reform in water management system and revival of	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off.	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.	
	need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system. For storage of water in the overhead tanks, the water is	
	<ul> <li>As the water clisis continues to become severe, there is a difense need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for</li> </ul>	
	<ul> <li>As the water clisis continues to become severe, there is a difense need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash,</li> </ul>	
	<ul> <li>As the water clisis continues to become severe, there is a difense need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash, cleaning purposes, gardening etc.</li> </ul>	
	<ul> <li>As the water ensist continues to become severe, there is a diference of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash, cleaning purposes, gardening etc.</li> <li>The tanks are periodically monitored and maintained for</li> </ul>	
	<ul> <li>As the water ensist continues to become severe, there is a diference of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash, cleaning purposes, gardening etc.</li> <li>The tanks are periodically monitored and maintained for leakage and blocks and immediate necessary action are taken for</li> </ul>	
	<ul> <li>As the water erists continues to become severe, there is a three need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash, cleaning purposes, gardening etc.</li> <li>The tanks are periodically monitored and maintained for leakage and blocks and immediate necessary action are taken for maintenance.</li> </ul>	
	<ul> <li>As the water ensise continues to become severe, increase a direct need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash, cleaning purposes, gardening etc.</li> <li>The tanks are periodically monitored and maintained for leakage and blocks and immediate necessary action are taken for maintenance.</li> </ul>	
	<ul> <li>As the water ensise continues to become severe, increase a diference of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we built ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off. Overhead water tanks are constructed at the top of the buildings for the purpose of holding water supply which is a part of drinking water distribution system.</li> <li>For storage of water in the overhead tanks, the water is pumped from the sump. The water stored in the tanks is used for daily requirements in the campus such as rest rooms, hand wash, cleaning purposes, gardening etc.</li> <li>The tanks are periodically monitored and maintained for leakage and blocks and immediate necessary action are taken for maintenance.</li> </ul>	

	• Overhead water tanks - PG Block	
	• Overhead water tanks - GG Block	
	Overhead water tanks - Girls Hostel	
	• Overhead water tanks- Boys Hostel	
	Overhead water tanks- APJ Block	
	• Overhead water tanks- EEE Lab	
	• Overhead water tanks- MECH Lab	
4.	Waste Water Recycling	Click Here
	Sewage treatment plant (STP) prevents the environment	
	from waste produced by human beings. The raw sewage is first	
	collected through sewer and sent to STP for purification.	
	Treated water sample is collected and tested in the laboratory for	
	satisfying Indian Effluent disposal standards. Once it satisfies,	
	treated water is used for domestic propose.	
	The waste water from the college campus is collected in the	
	sewage treatment plant.	
	The waste water is subjected to three main stages of waste water	
	treatment processes namely primary treatment, secondary	
	headmen and tertiary water fitment.	
	The treated waste water is used for gardening purposes and	
	watering the lawn.	
	This will incidentally drastically reduce the usage of fresh	
	water.	
5.	Maintenance of Water Bodies and Distribution System in	Click Here
	the Campus	
	Our Institute is well equipped with established water	
	distribution systems to facilitate the needs of the users. Rain	
	water is also one of the sources of water available in the college	
	premises. The rain harvesting tanks are available within the	
	campus to collect rain water. Ground water from the overhead	
	tank is distributed to all buildings inside the campus through	
	taps. A well laid pipe network is arranged to distribute the water.	
	This ground water is pumped into storage tanks located at	

	various places inside the campus. A separate committee is	
	available to ensure that there are no leakages and wastages.	
	Plumbers are available at any time for the maintenance and	
	systematic functionality of the distribution system.	
	There is continuous monitoring of leakages and wastages and	
	immediate actions are taken to prevent wastage of water. As a	
	precautionary measure to control wastage of water automatic	
	water level controllers are installed in the storage water tank to	
	avoid overflow of water. RO plants which form the drinking	
	water distribution system are installed in front of APJ abdul	
	kalam block and SJ Block. The purified water from the RO	
	plants are used for drinking purpose and the rejected water from	
	the RO is collected and used for campus gardening purposes.	
6.	Policy Document	Click Here
	Policy document on water conservation available in HR policy	