

## **Service Project Proposal**

### **Sanitary Napkin Vending Machines and Disposal Machines for Girls in Rural Area School and College.**

*Proposed by:* **Rotary Club of Kalyan**  
**RID 3142**

#### **Objectives of the project:**

**We have two major objectives of this Project.**

1. To educate and create awareness of use of Sanitary Napkins and provide easy access to Sanitary Napkins by installation Simple Vending Machines with replenishment program in Rural Schools and Colleges so that Girls/Women get habituated to use this Sanitary Napkins for their better health care.
2. Secondly, to solve the problem of sanitary napkin disposal by installing incinerators which shall reduce spread of infection due to unhygienic disposal of sanitary napkins, reduce environmental pollution due to non-biodegradable sanitary napkins and reduce clogging of public drainage system due to spongy nature of napkins.

#### **Why Sanitary Napkin Vending Machine is needed:**

As per study in India only 12% of women uses Sanitary Napkins and percentage is much lower in Rural Areas. It is observed that 20 percent of girls did not use toilet in school during menstruation for fear of staining it, and more than two out of five girls had no idea about menstruation when they started with their periods. Of those who had some idea, only 16 percent received any information in school.

There is a potential loss on economic and social front to India as a result of girls dropping out of school due to menstrual health issues and thus getting into early marriages and early pregnancies. More girls in schools means universal primary education and increased gender parity while contributing to eradication of poverty. Educated mothers also contribute to improved maternal health and reduction in child mortality. Hence, educating and creating awareness for use of Sanitary Napkins and as well provide easy access to Sanitary Napkins using Vending Machine is of prime need.

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### **Why Sanitary Napkin Disposal Machine (Incinerator) is needed:**

With Sanitary Napkins, we also need to give solution to dispose these sanitary napkins and avoid current ways of disposal like sanitary napkins are mixed with regular waste and it's difficult to segregate them and dispose them off. This exposes these viral borne wastes to the environment, animals and public at large causing diseases like Hepatitis B and C. It exposes waste pickers to disease-causing microorganisms E coli, Salmonella, Staphylococcus, HIV and pathogens that cause hepatitis and tetanus. Incinerating these napkins is the only way of getting rid of these problems. Hence, Installation of Incinerator is proposed.

### **What is Sanitary Napkin Vending Machine:**

Sanitary Napkin Vending Machine is a Self-Service Vending Machine used for dispensing Sanitary Napkins against acceptance of Coins. Proposed Vending Machine has loading capacity of 24 napkins with display for showing Napkin Stock availability. Its Mechanical coin acceptor, single value coin acceptor Rs 5 Coin and no need for electricity.

Estimated Cost of Sanitary Napkin Vending Machine is INR 7500/-

### **What is an Incinerator:**

A safe, hygienic, scientific & quick method of disposal of sanitary napkins is to incinerate them at relatively low temperature to harmless sterile ash. It helps in instant disposal of used napkins in a very scientific and hygienic way without generating harmful emissions. Proposed Incinerator come with Ceramic high density insulation for external thermal protection, Auto Thermal Cut off for power saving. Capacity of 200 napkins per day.

Estimated Cost of Incinerator is INR 26000/-

### **Where to install**

Sanitary Napkin Vending Machine and Incinerator both are very easy to install. It can be wall mounted and it is proposed to install at Schools and Colleges in Rural Area.

### **Who will benefit:**

Every single unit of Sanitary Napkin Vending Machine and Incinerator will directly benefit between 10 to 200 users per day based on the type and capacity, not to count the benefits to environment and society. More Girls in Schools with Less Drop-outs. Incinerator will also save the waste pickers from

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the in-human task of segregating this waste at various stages of the waste cycle.

We are proposing Sanitary Napkin Vending Machine and Incinerator as per the table below which considers quantity based on the girl's strength in school/college.

No of Girls in School/ College	Proposed Qty of Sanitary Napkins Vending Machines	Proposed Qty of Incinerator	No. of School/ Colleges	Qty of Sanitary Napkin Vending Machines	Qty of Incinerator	Qty of Free Napkin for 3 Months	Qty of Napkin for Next 3 Months
<b>1-100</b>	1	1	13	13	13	2000	2000
<b>101-200</b>	2	1	15	30	15	4000	4000
<b>200-400</b>	4	2	8	32	16	8000	8000
			<b>36</b>	<b>75</b>	<b>44</b>	<b>14000</b>	<b>14000</b>

Note:

(\*) – We propose to provide free Napkins for the period of 3 months so that we can educate and create awareness for the use for Sanitary Napkins for better health care and get them in habit of using Sanitary Napkins.

(\*\*) – After 3 months, we propose to give another set of Napkins which shall be free to School or College, but it shall be charged at Rs 5/- Coin for user. So, that School/College get money for replenishment for future napkins in rotation. This option is considered keeping in mind that school/college don't have to invest on Napkins and project helps them create money for rotation and ensure sustainability of project.

**Project Cost Estimation**

Sr. No.	Item	Qty	Unit Rate in INR	Amt in INR	Amt in US\$
1	Sanitary Napkin Vending Machines	75	7500	562500	8654
2	Incinerator	44	26000	1144000	17600
3	Free Napkin 3 Months	14000	5	70000	1077
4	Napkin for Next 3 Months	14000	5	70000	1077
5	Education & Awareness at each schools	70	2000	140000	2154
6	Installation of Vending Machines	75	300	22500	346
7	Installation of Incinerator with Electric wiring etc.	44	500	22000	338
8	Monitoring/evaluation	360	500	180000	2769
9	Misc/Other Expenss			64025	985
				<b>2031000</b>	<b>35000</b>

The project aims at installing 75 Sanitary Napkin Vending Machine and 44 incinerator units catering 36 Schools/College in the year 17-18

Cost of the Project: 35,000 US\$ (Exchange 1US\$ = INR 65)

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**Direct Beneficiaries:** over 8,000 Girls from these School/Colleges.

**Indirect Beneficiaries:** More Girls in School, Reduce Dropouts, more girls in schools means universal primary education and increased gender parity, Community around the institutions

Partner/s in the project: Educational institutes, Public Institutes, etc

**Schedule of Execution:**

Project implementation will start in July 2017 and will be completed by December 2017.

Club members are involved as a project committee to decide the vendor, select the institutions and to make MOU with them, execution and visiting the site of installation in every 3 months to note the operation of the vending machine and incinerators.

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