

## 40 KVA Genset Purchase & Putting up Costing (Pre Budget 2008-2009 Prices)

Sr #	Item	Description	Qty	Unit Cost (Rs)	Total Cost (Rs)		Assumptions	
1	Genset	Option A 40 KVA with AMF/ATS Panel			700,000		Sr # 3 will be eliminated if Automatic Genset with AMF/ATS panel is chosen. ATS panel will not be required. The Genset will be started using a key which takes 3-4 minutes. Manual changeover is done for getting the electrical power through Genset. Control cable will also be eliminated.	
		Option B 40 KVA with Manual Panel			625,000			
2	Sound Proof Canopy		1	90,000	90,000		Compulsory	
3	Automatic Changeover Switch (Optional)	If ordered in Open Market			45,000		In case ATS panel is designed by electrician and purchased from the local market and not OEM. This option can only be aviled in case the Genset has compatibility with the change over switch.	
4	Power Cable (35 mm) 4 Core	Depends on required length	50 Meter	1000/ m	50,000		In case of manual genset only power cable will be required and not the Control cable. Assuming 50 meter span between the Genset and Distribution Board (of internal room wiring)	
5	Control Cable		50 Meter	200/ meter	10,000		Will only be required for automatic Genset with AMF/ATS panel.	
6	Genset Foundation	Foundation Sand	10 cu ft	6/ cu ft (Ravi)	60		Sand from River Ravi	
		Brick Bats	18 cu ft		1,500		Stones from brick breaking	
		RCC	Cement	700 Kg (15 bags)	380/ Bag	5,700		Check cement bag price in your area. Only cement prices taken at post 2008-2009 budget
			Sand	40 cu ft	15/ cu ft (Chenab)	600		Sand of Chenab or Lawrencepur has to be used in RCC
		Aggregate	80 cu ft	35/ cu ft	2,800		Also called crush or Bajri	
		Steel	250 kg	70 (1/2 in)   75 (3/4 in)	17,500(1/2)   18,750(3/4 in)			Check steel bar option.
		Steel reinforcement for	80 Kg	70 (1/2 in)   75 (3/4 in)	5,600(1/2 in)   6,000(3/4 in)			Required to reinforce platform
		Bricks	350	3.7	1,260		To make enclosure before pouring concrete.	
		Digging (32 sq ft)	1 Day		1,000		Area of platform	
		Mason Wages	2 Days	615/ Day	1,230		May vary slightly from area to area.	
		Labour	2 Days	300/ Day	600		May vary slightly from area to area.	
		Hole Boring and Earthing			17,500		Earthing Connections, copper wire and circular plate 1'x1.5'	
		Diesel Guard Cage	130 cu ft		20,000		To secure diesel drums.	
	<b>Sub-Total</b>				<b>77,000</b>	3/4 in steel price has been used in the calculation.		

## Premises Modification for Dedicated Electrical Connections to Genset

Sr #	Item	Description	Qty	Unit Cost (Rs)	Total Cost (Rs)	Assumptions	
7	Distribution Board	Distribution Board with Bus. Bars & neutral bars (32"x28"x5")	1 No		22,370	Ordered in open market	
		Circuit Breaker 5 Amps	40 Nos	280	11,200	Number depends upon the wiring and the load.	
		Circuit Breaker 10 Amps	12 Nos	280	3,360	Number depends upon the wiring and the load.	
		Circuit Breaker 25 Amps	4 Nos	280	1,120	In case there are Air Conditioners only.	
		Main Circuit Breaker 50 Amps	1 Nos	1950	1950	50 Amps/ 60 Amps one main circuit breaker required.	
		<b>Sub-Total</b>				<b>40,000</b>	
		8	Electrical Wiring	PVC Cable size 3/029 Red	7 Coils	1100/coil	7,700
PVC Cable size 3/029 Black	2 Coils			1100/coil	2,250		
PVC Cable size 7/029 Black	1 Coils			2525/coil	2,525		
PVC Cable size 7/029 Red	1 Coils			2525	2,525		
<b>Sub-Total</b>						<b>15,000</b>	
9	Piping for electric cables & accessories	PVC pipe 2 in dia	100 ft	25/ft	2,500	The lengths of the pipes depend on the actual measurements of the site. They may vary substantially depending upon the point of installation and its configuration. The sockets and clamps are also as per requirement. The total cost for these items is therefore an approximation.	
		PVC pipe 1.5 in dia	80 ft	17/ft	1,360		
		PVC pipe 0.75 in dia	300 ft	6.5 / ft	1,950		
		PVC Sockets 2 in dia int	10 Nos	16.50/ piece	165		
		PVC Sockets 1.5 in dia int	10 Nos	12/ piece	120		
		PVC Sockets 0.75 in dia int	15 Nos	4/piece	60		
		PVC Bends 2 in dia	6 Nos	33/piece	198		
		PVC Clamps	10 Dozen	28/ dozen	280		
		PVC Box (7'x4'x3')	30 Nos	25/piece	750		
		PVC Tape	10 Nos	15/piece	150		
		G.I Clamps 2 in	30 Nos	12/piece	360		
		G.I Clamps 1.5 in	30 Nos	6/piece	180		
		Screw, Plugs and 14 gauge wire			927		
		<b>Sub-Total</b>					<b>9,000</b>
<b>Total Cost</b>	a	With AMF/ATS			<b>991,000</b>		
	b	Manual			<b>906,000</b>		
	c	Manual converted to Automatic			<b>961,000</b>	Not Recommended in normal circumstances since the ATS may not have compatibility with the Genset.	