

Performance Test Report of Shade

Rural and Environment Development Society (REDS), Kadiri, Anantapur has developed four models of shades as part of the worksite facilities under the NREGS programme.

Reds explained about the Shade to Sri Murali, Director NREGS and Sri Gopal PD, DWMA, Anantapur.

Sri Murali has instructed the organization to coordinate with department which supplied shades for a performance test jointly by organization and department.

We have tested the performance of shades at K N Pallem, Kadiri Mandal on 27th May 2008. MPDO Mr Ramesh along with Mandal Engineer, APO, GP Secretary and TA was presented during the performance test, and TRENCH work was also going on at that time.

Model 1 (Green Net) was erected at the work site.

Opinions of the Wage Seekers and officials on the Shades are:

- Shade is very comfortable
- Easy to erect
- Easy to transport
- Convenient to take rest and Lunch

On 9th of July 2008 along with department supplied shades (total six modes was erected) we have conducted test at Tummala Amadaguru Mandal of Anantapur District. MPDO Mr Gyanaendra Reddy along with APO and TA also participated the test.

Around 150 wage seekers were engaged in tank desilting and we have also collected the opinion of the wage seekers and officials.

After observing all the six models they have expressed that the Model No 1 (Green Net) Is very convenient and it is ideal for all the sites and tarpaulin 12 x 12 and 15 x 15 shades are advisable for tank desilting works.

On 17 th July 2008 we have exhibited all the six models at Kadiri, Sri Gopal, PD DWMA, Sri Krishna Naik APD has inspected the same and expressed that out of six models Model No 1, of 12' x 12' and 15' x 15' models are advisable and he also said that the Model No 1 is very easy to install, it is comfortable not only in terms of shadow but air circulation too. Other models are spacious but requires vehicle for transportation, hence it is advisable in major works where the tractor is available.

Model	REDS Model 1
Weight	26 Kgs
Materials Used	<p>Structure : 1' dia hard steel pipe</p> <p>Roof : Garden Net (Green Net)</p> <p>Size : 10' x 14'</p> <p>Pipe length : 10'</p> <p>90' pipe required</p> <p>35 Sq.mts green net required</p> <p>Well Crown Tape, Iron pipe Brackets Nuts and Bolts</p>
Time required for erection	20 minutes by two persons
Mobility	Two persons can carry or it can be transported by cycle
Quality of Shade	Good shade, being a Green Net the shade is of very tiny holes and can be seen from inside, it is excellent and comfortable and full of air circulation.
Rain and Wind withstand	It is a comfortable shade with a good air circulation but it will not withstand rain. It will withstand wind because the pipes structure will be fixed in the earth
Accommodation/capacity	It accommodates 35 persons in ideal condition and 25 persons can comfortable dine under it.
Durability	The Green Net life is of 1 year The Iron pipes will last for min. 4 Years
Needs no expertise	30 minutes orientation is sufficient to erect, and all pipes and brackets are marked with numbers with that they can erect very easily
Cost	Rs 3,850
Remarks	This model is having a special advantage it can be shifted and change the direction according to the sun light (Total erected Shed)



Meeting was conducted to collect their opinion
40 persons sat under the Shade





Amadagur MODO Mr Gyaneder Reddy
APO and TA also attended



Erecting the Shade



Sri Gopal , PD. DWMA has participated in the performance test on 17 -6-2008 at Kadiri , he has inspected all the six models, and opines that, “out of six models Model 1, 12’x 12’ and 15’ x 15’ models are advisable”, And he also said that “Model 1 is advisable for all the works because of low weight and can be shifted to any place , it requires less man power and technology to erect ,it also accommodate 35 to 40 persons.”

Model	REDS Model 2
Weight	30 Kgs
Material Used	<p>Structure : 1' dia hard steel pipe Roof : Tarpaulin Size : 8' x 8' Shed height : 7' 95' pipe and 15 mts tarpaulin required Well Crown Tape, Iron pipe Brackets Nuts and Bolts</p>  
Time required for erection	25 minutes by two persons
Mobility	Two persons can carry it and also can be transported by cycle
Quality of Shade	Good and dark shade being a Tarpaulin it also durable
Rain and Wind withstand	It will give good and dark shade it also withstands rain. It will withstand wind because the pipes structure will be fixed in the earth
Capacity / Accommodation	It accommodates 20 persons in ideal condition and 12 persons can dine comfortably
Durability	The Tarpaulin life is of 2 years The Iron pipes will last for 4 Years
Needs no expertise	30 minutes orientation only for once is sufficient to erect, and all pipes and brackets are marked with numbers with that they can erect very easily
Cost	Rs 4,400
Remarks	This model is ideal for small groups



Erecting process





Women and children relaxing under the shades




Wage seekers relaxing under the shade

Model	REDS Model 3
Weight	28 Kgs
Material Used	<p>Structure : 1' dia hard steel pipe Roof : Hard Canvas Size : 8' x 8' Shed height : 7' 100' pipe and 15 mts canvas required Well Crown Tape, Iron pipe Brackets Nuts and Bolts</p>
Time required for erection	25 minutes by two persons
Mobility	Two persons can carry or it can be transported by cycle
Quality of Shade	Good and dark shade
Rain and Wind withstand	It provides good shadow but it cannot withstand rain It will withstand wind because the pipes structure will be fixed in the earth
Accommodation / capacity	It accommodates 20 persons in ideal condition and 12 persons can dine comfortably.
Durability	The Hard Canvas life is of 1 year. The Iron pipes last for 4 Years
Needs no expertise	30 minutes orientation for once is sufficient to erect, and all pipes and brackets are marked with numbers with that they can erect very easily
Cost	Rs 5,000
Remarks	This model is ideal for small groups





Wage seekers are taking their lunch under model 3 (8 x 8 size) shade, comfortably 12 persons sat under it.

Model	REDS Model 4	
Weight	24 Kgs	
Material Used	<p>Structure : 1' dia hard steel pipe</p> <p>Roof : Hard Cloth</p> <p>Size : 8' x 8'</p> <p>Shed height : 7'</p> <p>75' pipe and 10 mts cloth required</p> <p>Well Crown Tape, Iron pipe Brackets</p> <p>Nuts and Bolts</p>	
Time required for erection	15 minutes by two persons	
Mobility	Two persons can carry or it can be transported by cycle	
Quality of Shade	Good and dark shade	
Rain and Wind withstand	It provides a good shadow but it cannot withstand rain It will withstand wind because the pipes structure are fixed in the earth	
Accommodation / capacity	It accommodates 20 persons in ideal condition and 12 persons can do lunch	
Durability	The Hard Cloth life is of 1 year The Iron pipes will last for 4 Years	
Needs no expertise	30 minutes orientation for once is sufficient to erect, and all pipes and brackets are marked with numbers with that they can erect very easily	
Cost	Rs 3,700	







Side wall can change according to the sun light

Model	DWMA (12 x 12) Model 1
Weight	40 Kgs
Material Used	<p>Structure : One 9' and four 5' wooden poles</p> <p>Roof : Tarpaulin</p> <p>Size : 12' x 12'</p> <p>Rope, 4 Iron Roads (Big Nails)</p>
Time required for erection	45 minutes by three persons
Mobility	As it is heavy in weight, needs Tractor or Bullock cart for transportation.
Quality of Shade	Good and dark but as Tarpaulin is used and low in height, hence occupants feel heat
Rain and Wind withstand	It provides a good shadow but due to the low in height at sides it produces little heat, as it is a tarpaulin it will withstand rain. It will not withstand wind
Accommodation /capacity	It accommodates 40 persons in ideal condition and 30 persons can comfortably dine.
Durability	The Tarpaulin life is of 2 years. The wooden poles last for 6 months
Capability	50 minutes orientation is sufficient to erect
Cost	



Tent material unloaded from the vehicle



Model	DWMA (15 x 15) Model 2
Weight	44 Kgs
 Material Used	<p>Structure : One 9' and four 5' wooden poles Roof : Tarpaulin Size : 15' x 15' Rope, 4 Iron Rods (Big Nails)</p> 
Time required for erection	45 minutes by three persons
Mobility	Being heavy in weight needs Tractor or Bullock cart for transportation.
Quality of Shade	Good and dark but being Tarpaulin and low in height, occupants feel the heat
Rain and Wind withstand	It provides a good shadow but, it is low in height at sides it produce little heat, being a tarpaulin it will withstand rain. It will not withstand wind
Accommodation / capacity	It accommodates 45 persons in ideal condition and 35 persons can dine comfortably.
Durability	The Tarpaulin life will be 2 year The wooden poles life will be 6 months
Capability	50 minutes orientation is sufficient to erect,
Cost	



12 x 12 and 15 x 15 model shades are very spacious it accommodate 35 to 45 persons



Sri Gopal , PD. DWMA at performance test conducted on 17 -6-2008 at Kadiri , he has inspected all the six models, and opines that, out of six models, Model 1, 12'x 12' and 15' x 15' models are advisable, And he also added that 12' x 12' and 15' x15' are spacious and heavy but requires more manpower, time and not easily transported and it is advisable at Tank desilting works, as tractor will be available at the site so that the shade can transported.

Observations and opinions of the wage seekers and officials.

Total six models are erected and conducted the performance test, considering accommodation capacity, durability, mobility, time required for erection, technology involved and other factors.

- Model 1 (Green Net) model is very ideal and very easy to erect.
- Easy to transport
- Good circulation of air
- Good quality of Shade
- It accommodates 35 persons
- It withstands wind
- Ideal for any work sites.

12' x 12' and 15' x 15' models

- This models are very spacious
- It is heavy
- It takes long time for erection
- Needs a vehicle to transport
- It cannot withstand wind
- It is advisable at sites for big works and tank desilting works where the vehicle is available.
- It is not ideal for all the works.