

PROGRESS REPORT ON
Electric Rickshaw-“Redefining Transportation In Terai”

Submitted To:

**Poverty Allevation Fund
Gyaneshwor, Kathmandu
Nepal**

Submitted By:



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Background

The technically and socially innovative project "Electric Rickshaw Redefining Transportation in Terai " received the grant award from Poverty Alleviation Project (PAF) and World Bank during the Nepal Development Marketplace 2008 competition "Launa Aba Ta Kehi Garaun" in Nepal. Total fund granted for this project was Rs 6,00,000 (Six Lakhs)

This project aims to transform traditional rickshaw to electric rickshaw, powered by battery which in turn will help alleviate the income of the puller and the owner of the rickshaw.

Objective

The main objective of this report is to describe the activities performed by Kathmandu University and its partner organization (Krishna Grills and Engineering Works) till this date. This report also includes all the financial details of the project.

Overview of the project

- At first a working model was fabricated at Kathmandu University. During this process some parts were required to be brought by air due to delay, also R&D we conducted on braking system and regenerative braking increased the cost of the model to Rs 1,09,066(One Lakh nine thousand and sixty six only). But the cost to launch this model will be Rs75,000(Seventy Five Thousand).
- Taking into account the findings and results from our working model in Kathmandu university another rickshaw was fabricated in Biratnagar at Krishna Grills and Engineering works.

- Then surveys were conducted among the rickshaw pullers and owners about the model we have just launched. The results were satisfying as they preferred our model to that of their traditional one.
- Then five more rickshaw were launched according to the same design. These rickshaws were given to the pullers having poor economical background.
- Training programs were conducted among the pullers to help the product be more user friendly.

Financial Summery of the project

Statement of expenditure made under this in project Electric Rickshaw is presented here:

S.No.	Particular	Amount(Rs)
1	TA/DA	20273
2	Communication and Electricity	2346
3	Miscellaneous	4863
4	Motor/controller	219368
5	Battery	116925
6	Battery charging kit	70060
7	Braking system	6350
8	Rickshaw and accessories	23607
	Total	463792

On-Going Works

We have constantly monitored the performance of the electric rickshaws so far made, and it has been impressive. Further monitoring of the project is recommended for its better performance. Hence we have planned to further monitor its performance through Krishna Grills in Biratnagar. A final training session is also planned for both the pullers and owners which will help them in maintenance of the rickshaw.

We also have plans to make two more rickshaw with a new approach, i.e charging it with solar system. We have already started our work for this process.

For the sustainability of the project we have proposed that every owner of the electric rickshaw needs to replicate another one within two years time.

We have also planned for the advertisement of the product for its future success in due time.

Conclusion

This project is on its final stages. The expenses are not incurred according to the budget heads classified during the submission of the proposal. This is due to the unavoidable circumstances like increase in battery and electric motor prices. Hence some alterations have been made accordingly keeping in mind that the final outcome is not adversely affected. After the release of the third installment we will be able to complete all the planned works as soon as possible.

Financial Detail of the project

S.N	Particular	Amount(RS)
Materials Equipments		
1	48 V DC motor with speed controller	1 X 44368
2	36 V DC motor with speed controller	5 X 35000
Total		219368
3	Battery Charging Kit 48 V , 45 Ah system	1 X 13560
4	Battery Charging Kit 36 V, 75 Ah system	4 X 14125
Total		70060
5	Battery ,45 Ah	3 X 4600
6	Battery , 75 Ah	12 X 7500
7	Battery, 45 Ah	1 X 5500
8	Battery, 75 Ah	1 X 7625
Total		116925
8	Accessories parts	1140
9	Rickshaw	13000
10	Angle rod	1230
11	Gas pipe	135
12	Accelerator	440
13	Saddle with fuse	60
14	Nut Bolt	25
15	Chain	100
16	Bolt	65
17	Nut bolt	60
18	Wire and Clips	220
19	Supporting accessories	5825
20	Shock Absorber	1200
21	Shock Bush and Nut	80

Total		23607
22	Disk brake & accessories	5950
23	Brake oil	100
24	Hydraulic Break cable	300
Total		6350
TADA		
24	Petrol	1000
25	Petrol	1000
26	Petrol	1000
27	Petrol	640
28	Petrol	855
29	Petrol	400
30	Petrol	500
31	Petrol	500
32	Petrol	400
33	Taxi Fare	190
34	Petrol	200
35	Petrol	300
36	Petrol	434
Total		7419
Miscellaneous		
37	Photocopy paper and prints	358.00
38	Flex and prints	500.00
39	Files and clear bags	370
40	Note book and register	240
41	Lunch	240
42	Lunch	354
43	Lunch	410
44	Lunch	215
45	Lunch	326

46	Lunch	190
47	Lunch	480
48	Lunch	155
49	Lunch	215
50	Photocopy	80
51	Lunch	430
52	Lunch	300
Total		4863
Communication and Electricity		
53	Recharge Card	410
54	Recharge Card	410
55	Recharge Card	410
56	India Call	91
57	Recharge Card	205
58	Recharge Card	410
59	Recharge Card	410
Total		2346
GRAND TOTAL		463792