

Name of Project:

Implementation of Phase II of Badhan Transfusion Centre (to convert the existing centre into a complete blood centre)

This project is earlier approved & accepted by Spaandanb, USA. Phase I is running since 2006 with financial support from Spaandanb.

Name of the Applicant : *Muhammad Shahidul Islam (Ripon)*

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If applying on behalf of an organization -

Name of Organization: *Badhan & Badhan Foundation*

Organization Web-Site (if any) : *www.badhan.org, www.badhanfoundation.org*

Organization Registration status (i.e. NGO registration, Social Welfare registration or any other society registration number, if any) : *Social Welfare & Registrar of Joint Stock Companies & Firms (RJSC&F) under society Act.*

Is the organization capable of accepting Foreign donation (If the answer is no, explain why and what is the plan to fix this situation): *No. Cause to receive foreign donation, the organization must have registration from NGO Bureau. We have no plan to fix this problem or to get registration from NGO Bureau. Spaandanb may use their Bangladesh office for remittance purpose.*

Designation of Applicant : *Advisor, Badhan, Central Committee. Chairman, Badhan Foundation*

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Benefit Area (City, District or Village, Thana, Upozilla, District) : *Dhaka City.*

Concept Paper on Badhan Transfusion Centre (BTC)

Project Category (i.e. Advancement of Education, remedy for Health needs, Income generating activities for self-sustenance, Emergency etc.) : *remedy for Health needs*

Projected number of beneficiaries (i.e. number of families per year, number of people per year etc.) : *detail in the concept paper attached.*

Project Concept (Describe the concept of the proposed project. Please attach additional documents if required.) : *Concept paper of the project attached.*

Project implementation process (describe who will implement the project and how): *detail in the concept paper attached.*

Project Budget (Annual or one-time expense estimate. If applicable, indicate overhead and running cost separately. Also mention the expected source of the funding.) : *detail in the concept paper attached.*

Project Start and Duration (the project need funding for how many years and from when it will start): *Expected to start from January 2016. Funding will be one off basis. No revolving fund required. The project will be self viable in terms of operational expenses.*

Project Reporting Mechanism (What will be reported in the periodic project progress and activity report and at frequency) : *As required by Spaandanb. We are ready to provide reports monthly/quarterly.*

Project Liaison Contact (the contact address, phone/mobile etc. for the person who will be involved with the project and communicate with SpaandanB US and Dhaka office): *In USA, we don't have any contacts right now but if this is mandatory, we can provide liaison from Canada or from USA upon query. Bangladesh Contact point will be Shahidul Islam Ripon, at present.*

Disclaimer statement (A statement about the non-discriminatory status of the project and also its non-affiliation, direct or indirect, with any sort of terrorist activity) : *the project, badhan, badhan foundation don't have any type of affiliation with any sort of terrorist activity.*

Concept Paper
On
Badhan Transfusion Centre (BTC)

A report for establishment of a complete Blood Transfusion Centre

Summarized Points of this Paper:

- Service charge for whole Blood & Blood Component of existing Private Blood Banks are too high.
- Donors of Badhan from various institutions have to travel sometimes a long way for donation, sometimes its time consuming, costly & hazardous too.
- Badhan, with support from DU authority as well as from Spaandanb (a US organization of expatriate Bangladeshis), running an experimental Blood Transfusion Centre at TSC since 2006.
- Badhan Foundation now want to change the experimental centre into a complete international standard Blood Transfusion Centre for donor convenience, low service charge.
- To set up this centre, space is required. Badhan people already has started the procedure to have additional space for the Centre either at TSC or at Dhaka University Medical Centre.
- If required Badhan people is ready to bear some expenditure for civil construction
- Badhan people also started un-official talks with Spaandanb USA for necessary fund/support.

- **Blood Transfusion Services in Bangladesh:**

Under Health and Population Sector Program (HPSP) 1998-2003, the Safe Blood Transfusion Program (SBTP) was launched in 2000 with the assistance of UNDP to ensure supply of safe blood for humans through screening. Under this program, blood-screening facilities were developed in 99 blood transfusion centers. In 2004, the activities of the Safe Blood Transfusion Program received financial support from the World Bank and DFID through IDA credit. A Memorandum of Understanding (MoU) was signed between MOHFW and WHO under HIV/AIDS Prevention Project (HAPP) with technical assistance from the latter. This was continued till 2007. Since then, the activities were being implemented under the Health, Nutrition and Population Sector Program (HNPS) 2003-2011. The activity is being continued also under the current Health, Population and Nutrition Sector Development Program (HPNSDP) 2011-2016.

As per the annual health bulletin published by the MOHFW, the Safe Blood Transfusion Program (SBTP) made a good progress over the past years through reduction in the number of paid donors from 70% to 0%, capacity-building for blood screening in all blood transfusion centers for HIV, hepatitis B and C, syphilis, and malaria and expansion of activities up to the upazila health complex level.

The achievement of reducing the number of paid donors from 70% to almost nil, was mainly due to the motivation campaign initiated by the students to make voluntary blood donation a social movement under the umbrella of Badhan since early 1997. With a well organized drive, the slogan of the organization was getting popular among the young generation specially among graduate & post graduate level students. Currently working in 37 post graduate level institutions including 11 public universities, Badhan is leading the social movement for voluntary blood donation.

Currently, 208 blood transfusion centers, with 89 in the upazila level, are functional under SBTP program. Blood component separation facilities have been developed in 18 blood transfusion centers. Six centers have been equipped with modern mobile vans for outdoor blood collection.

Following is a profile of the SBTP as of 2013:

No. of blood transfusion centers supported currently by SBTP	: 208
No. of blood transfusion centers at the upazila level	: 89
No. of centers where blood-component separation facilities exist	: 18
No. of centers with mobile vans for blood collection	: 6

During 2001 to 2013, a total of 43,40,047 units of blood were tested in 208 centers, out of which 51,257 units were rejected due to the evidence of transfusion-transmitted infections (TTIs). Of the rejected units, 40,031 were rejected for hepatitis B, 5,308 for hepatitis C, 4,261 for syphilis, 1,398 for malarial parasites, and 240 for HIV.

In 2013, a total of 1,11,481 units of blood components were produced by the blood centers. These included 63,231 units of red blood cell concentrate, 31,787 units of fresh frozen plasma, 25,783 units of platelet concentrate, 633 units of Platelet-rich Plasma (PRP), 13 units of Fresh Plasma (FP), and 4 units of cryoprecipitate. The cumulative production of blood components up to 2013 was 4,90,103 units.

The Safe Blood Transfusion Act 2002 of Bangladesh is in place that circulated the rules and regulations in 2008. There is a reference laboratory for blood transfusion at Dhaka Medical College Hospital. The functions of the reference laboratory are to support various organizations for training and monitoring. The reference laboratory is also testing the referred samples and validation of kits. The professionals engaged in the safe blood transfusion program deeply feel that a National Blood Center should be established as soon as possible to further streamline the stewardship role and coordination functions for the current fragmented blood transfusion services operating throughout the country. The blood centers under the Safe Blood Transfusion Program collectively gathered a total of 43,40,047 units of blood from 2001 to 2013. In 2013, the program personnel collected 5,93,774 units of blood (voluntary 1,75,984 & relative 4,17,790).

A number of voluntary or non-profit organizations also contribute to encourage healthy donors for donating blood voluntarily. Some of these organizations have their own set-up for collecting, testing, storing, and distributing blood or blood products. The following is the year-wise collection by the major voluntary blood-donation organizations:

Name of the Organization	Supplied units of Blood (Whole Blood)		
	2013	2012	2011
Badhan*	64,651	55,695	60,802
Red Crescent	54,380	45,407	45,400
Quantum	60,150	87,165	46,002
Sandhani	36,251	35,360	33,347
SBTP	593,774	541,682	415,372
Total:	809,206	765,309	600,923

*as Badhan don't have own transfusion centre, the donor provided by badhan may be double counted in the above data as most of the donors of badhan donated through SBTP/Quantum or red crescent Blood Banks.

Source: Annual Health Bulletins by MOHFW, GOB.

It is pleasing to note that the Safe Blood Transfusion Program and the voluntary blood-donation organizations could consistently keep the percentage of paid donors to zero. The paid donors are sources of transfusion-transmitted infections (TTIs), viz. hepatitis B and C, syphilis, malarial parasites, HIV, etc., and they dominated the blood donors prior to inception of Safe Blood Transfusion Program and emergence of the voluntary blood-donation organizations. The risk of transfusion-transmitted infections reduced substantially due to the absence of paid donors and screening of collected blood prior to transfusion.

Background of BTC:

Badhan Transfusion Centre (BTC), presently a concern of Badhan Foundation, was officially inaugurated on September 02, 2006 as an experimental transfusion centre with the financial support from Spaandanb, USA. The major causes behind starting such a centre was to get hazardless service for the voluntary Blood Donors, to save their valuable time as well as to provide private standard services to the patients with a government standard cost or even lower. Though BTC is still running with its experimental phase, it provides services to the poor patients sometimes even with free of cost. Increasing heavy traffic of Dhaka City area now bounds us to come out from the experimental phase to a complete transfusion centre.

Brief History of BTC:

To have our own Blood Transfusion Centre was a long cherished dream of Badhan. After starting its journey in 1997, within few months it was made clear to its pioneers about the necessity to have a transfusion centre (something more than a conventional blood bank) to fight with the difficulties and hazards in getting services from Hospital & Non Hospital Blood Banks.

However, as a start up organization, Badhan could not do anything within first few years except having raised the issue to the honorable Vice Chancellor of Dhaka University on the day of its Annual General Meeting in February 26, 2000. Initially the concept was in principal agreed by the authority of Dhaka University but it was difficult to arrange fund. Badhan started to look possible funding options for its dreamt Transfusion. One of our special Member assured us to help us. During the devastating Flood in 2004, Badhan worked really hard to support flood affected people with own collected fund and with the help of some other organization including Spaandanb, USA (an expatriate organization working in USA for betterment of Bangladesh: www.spaandanb.org).

After successfully completed the flood campaign, to acknowledge Badhan's support, the executive committee of Spanndanb, USA proposed to support Badhan financially. As Badhan do not take financial support from other than institutions it worked and from its own members, authority of Badhan declined to get financial support from them. Later on after discussion with the senior members of Badhan and Spaandanb, it was mutually agreed that Badhan would not take financial support but Spaandanb might help to establish Badhan's own Transfusion Centre.

A series of dialogue was taken place between senior members especially with Advisors of Central Committee of Badhan and EC member, County Representative of Spaandanb during 2004-2005. Proposal for the BTC (prepared by advisors of Central Committee) was sent to Spaandanb, USA which was accepted by them. On 20.09.2005, Spaandanb issued official letter of acceptance to finance BTC's first phase (implementation of experimental phase).

A tri-party MOU was signed among Spaandanb, Badhan & University of Dhaka for this purpose on 05.06.2006 with approval from Syndicate on 27.10.2005. After that Spaandanb sent their committed money (Tk. 489,420.00) and the experimental transfusion centre started its journey on 02.09.2006 with a initial cost of Tk. 276,834.00. It was decided that very soon, it will be converted to a complete international level transfusion centre with support from Spaandanb and space from the authority of the University of Dhaka. But unfortunately, things did not go as per assumptions and plans.

Difficulties and causes for delay to complete the centre:

The followings are the reasons for which badhan delayed conversion of BTC from experimental to a fully equipped standard level Transfusion Centre:

1. Political turmoil during late 2006 & early 2007. Nothing was possible but to carry on regular activities of badhan. For this situation, the team lost their courage.
2. The rules and regulations under the Safe Blood Transfusion Act 2002 of Bangladesh was circulated in 2008. As per this regulation, a huge amount of money was required as safe deposit which we didn't have. Moreover, there are other requirements like trade licenses, experienced manpower, medical professionals etc which was tough for badhan to manage.
3. Space shortage to expand present set up.
4. As the project implementation was delayed, Spaandanb became reluctant to support the full implementation of the Centre.
5. Last but not the least, the executive committee of Badhan is run by regular students who hold office for only one year. It is next to impossible for them to run this centre professionally.

Performance of BTC:

Due to lack of logistics, necessary machineries as well as legal barrier, it is still running as experimental basis. Main reason also includes not appointing Medical Professional.

Initial ideas were to engage one Medical Officer from DU Medical Centre but it was never exercised. Board of Directors (Chairman-Treasurer, DU, Executive Chairman- nominated by Chairman from Provosts, Chief Medical Officer & 1 Medical Officer, DU, 1 Representative from Spaandanb, President & Secy of Badhan Central Committee & DU Zone Committee, 2 Advisors of Badhan) formed by Badhan Central Committee never sat for a meeting. The centre was running on the basis of some corner stone principal set by the senior advisors. DU Zone is supervising the day to day activities of BTC and representatives from Spaandab periodically oversee the operations. At present two Medical Technologists are appointed for collection and processing of whole blood.

However, in spite of these start up difficulties, the operation of BTC is self wheeling in terms of cost. So far more than 9000 bags of blood have been collected and delivered on demand from BTC (up to 31.12.14).

Recent thoughts of Badhan about BTC:

Badhan Central Committee, keeping in mind the above mentioned difficulties, considering the potential of serving the community with lower price and comfortable arrangements for donors as well as for the patients, has decided to upgrade and make necessary arrangements to run the centre in its full capacity. Recently Badhan Foundation has been formed as a legal organization registered under the society act from Registrar of Joint Stock Companies & Firms (RJSCF) by the senior & dedicated activists of Badhan. The main objectives of the foundation are to create a society for all dedicated badhan activist all over the country, to have a well organized support from them for our beloved organization and to try to make the dreams of badhan a true event by more professional ways. *The Foundation will arrange all required GOB permissions & paper works.*

This is agreed by Badhan as well as Badhan Foundation in principle that, BTC as well as likewise dreams of badhan should be run more professionally and the senior members should be engaged to run these ventures. As such, BTC will be a concern run by Badhan Foundation.

Accordingly verbal dialogue with Spaandanb officials has also been started and they have showed their good intention to support to convert the experimental centre to a complete well equipped Blood Transfusion Centre, **if DU authority will allocate extra spaces for BTC.**

We understand that there is scarcity of spaces which may be allocated for BTC in addition to the present small space at TSC. To set up a standard level transfusion Centre including lab, storage facilities, cell separator machines, day care, donor waiting room, doctors room, resting room for donors, general store etc more than 4000 sft floor space is required. For starting, we need at least 3000 sft floor spaces. We have searched several options where the honorable authority may consider allocating floor space:

- a) **At Dhaka University Medical Centre.** The one storied building of the medical centre is a RCC pillar building having foundation for 5 stories. Roof area is around 2000 sft (26X78). If the authority allow us to use 1st floor of the building, Badhan Foundation may construct one floor on the present building as per the construction standards of DU.
- b) **At TSC where DU Cyber Café was housed once.** Now a days there is available net access through mobile devices and whole TSC area is under coverage of free WiFi Zone, so there is really no need to have a separate Cyber Café only for internet browsing. Authority can consider to allocate us this space. *If so happens, then Badhan/Badhan Foundation may save a whole lot of money for civil construction.*

Rationale, Budget and operating cost for a fully equipped BTC:

Before starting implementation of the idea, Badhan Central Committee feels that there are lack of data regarding blood demand, supply as well as turnover vs costs about blood services from various hospital and non hospital blood banks. For this, a survey was conducted in the major 36 hospitals/blood banks (represents 70% of total turnover of Dhaka City as assumed) during 2nd quarter of 2014. The major findings of the survey are as under:

Earlier organizations working in Voluntary Blood Donation Movement variously stated that total requirement of Blood in our whole country is around 3 lac to 5 lac but this survey has revealed that requirement of Blood in our country is not less than 13 lac bag. This figure can be found as per following calculation:

Particulars	Hospitals/Blood banks Under survey	Assumptions	Dhaka City Corporation Area	Whole Country
Actual Supply/ Turnover	380,170	Institutions covered under survey represent at least 70% of total Blood turnover of Dhaka City Corporation.	543,100	905,167
Assumed Requirement	543,100	It is assumed that we can meet maximum 70% of total requirement Out of total requirement, 60% Blood is required in Dhaka City.	775,858	1,293,095

Except government Hospitals and few Blood Banks, charges are abnormally high for whole Blood & Blood products. Service charge for whole blood processing (Donor is free) is ranging from Tk.500 to Tk.3000 per bag. However, in Government hospitals, few blood banks are charging less for whole blood depending on type of patients (free bed, paid bed, cabin). In maximum cases, this charges are really out of rich for general people of Bangladesh.

There are lots of potential to run such a Blood Transfusion Centre like BTC where we can substantially reduce service charges for Whole Blood/Blood Products for general people.

Only 20% of collected whole Blood are further processed for component transfusion. There are lots of opportunity to increase component separation to use single bag of whole blood for at least three people or Blood products can be used for other important purpose such as Life Saving Drug production (like Albumin etc).

Related Fixed Costs & Source of Fund:

(Figure in million Taka)

Item	Cost	Source of Fund
Floor Space-Civil Construction*	3.50	Own Fund
Foreign Machinery	14.00	Spaandanb, USA
Local Equipments, Decoration	2.50	Own Fund
Total:	20.00	

*if DU authority allocate space at TSC, then this amount will not be required.

Monthly Operating Expenses & Source of Fund (Gross):

(Figure in Taka)

Cost Heads	Quantity	Rate	Expenses
Expenses:			
Salary & Wages			
Manager	1	15,000.00	15,000.00
Consultant	1	30,000.00	30,000.00
Medical Officer	2	15,000.00	30,000.00
Medical Technologists	2	10,000.00	20,000.00
Lab Assistants	4	7,000.00	28,000.00
Support Staffs	2	5,000.00	10,000.00
Others			
Consumables (bag, kits, reagents)	900 Units	260.00	234,000.00
Total Expenditure:			367,000.00
Earnings:			
Service Charges*	900 Units	450.00	405,000.00
Total Income:			405,000.00
Surplus/Shortfall			38,000.00

*30 units of whole blood assumed to be collected & disposed initially. Surely, this figure will be increased. We don't need full staff initially though. Per unit services varies from 400 to 600. Some will be disposed on free basis. Average service charge income considered 450.00/unit.

Management plan for BTC:

Features	Planning	Comments
Space	Dhaka University	Dhaka University will provide space for BTC
Fund	Major Part: Spaandanb USA Local Part: Badhan Foundation	Spaandanb USA will arrange importable equipment for around BDT 14.00 million Badhan Foundation around BDT 7.00 m.
Agreement	A Tri-party MOU will be signed among Dhaka University, Spaandanb USA & Badhan Foundation regarding the space allocation, providing the fund as well as the major points of the board of directors & operation of the Centre.	
Management	<p>A Board of Directors of 9 Member will be formed as under for taking policy decisions of BTC. The Board will be formed as under:</p> <p>Chairman: To be nominated by the hon'ble VC of Dhaka University Vice Chairman: to be nominated by Badhan Foundation Executive Director: to be nominated by Badhan Foundation Members 6 to be nominated as under:</p> <ol style="list-style-type: none"> 1. CMO of Dhaka University Medical Centre 2. One member nominated from Spaandanb from them 3. Two other members to be nominated by Badhan Foundation 4. Presidents & Secretary of Badhan Central Committee <p>All members of the Board will be nominated for 2 years except for CMO & President/secretary of Badhan, Central Committee (these persons will be on position basis). All the member of the Board will be non-salaried. If possible they will be given transport allowances for attending meetings. Chairman of the Board will have the power to initiate audit by external parties, if he thinks necessary.</p> <p>Executive Director will be the operation chief and the bridge between the board & Management of BTC. He will execute the decisions of the board; he will be responsible for day to day operation. No procurement/expenditure other than regular consumables can be done without prior permission of the Board.</p>	
Legal Ownership	Badhan Foundation	Badhan Foundation will be responsible for arranging legal papers, licensing & necessary GOB approvals for BTC

Details of Equipments:

List of Equipments required for Badhan Transfusion/Blood Centre					
(Figure in BDT)					
Sl#	Category	Item Description	Producer & Origin	Price collected from local vendors	Comment
Group A: Blood Screening System Equipments					
1	Semi Automated Elisa System	Elisa Microwell Plate Reader, Model 'Multiskan FC'	Thermo Fisher Scientific (Former Labsystems), Finland	6,50,000.00	
		Elisa Auto Washer, Model 'Well Wash 4 MKII'			
2	Binocular Microscope	Primostar, Fixed Kohler Stand with Halogen Illumination, Eyepiece: 10X18 Br. Foc	Carl Zeiss, Germany	1,20,000.00	
3	Hematology Analyzer for Cell Screening	BC 2800, WBC 3 part differential, 19 Parameter, 30 sample/hour	Mindray, China	4,00,000.00	
4	Semi Auto Biochemistry Analyzer	Model: Stat Fax 3300	Awareness Technology USA	3,20,000.00	
5	VDRL Shaker	Model: SHO-1Dwith Rubber Mat Platform	Daihan Scientific Corporation Korea	60,000.00	
Sub-total:				15,50,000.00	
Group B: Blood Collection Equipments					
6	Comfy Couch	Model: C101	Qualimed Systems India		Price: Tk.2,80,000.00 not mandatory, we can source local markets at cheaper rates
7	Automated Apheresis system for therapeutics & cell collection	Cobe Spectra (for component collection)	TerumoBCT, USA	35,00,000.00	not mandatory initially
8	Blood Collection Scale Mixer & Monitor	Hemotek 2, linear Mixing Technology	Delcon S.r.l, Italy	2,30,000.00	
9	Portable electric tube sealor	Hemoweld-B (ensures leakproof sealing & easy separation of tube segments)	Delcon S.r.l, Italy	3,00,000.00	
Sub-total:				40,30,000.00	

Group C: Blood & Blood Component Storage System Equipments					
10	Blood Bank Refrigerator	FRBB1204V-192 Bags (meets standards of AABB, ANRC & FDA)	Thermo Fisher Scientific (Former Jouan, France), USA	16,50,000.00	
11	Ultra low temperature freezer	Form 900 Series- minus 86 degree freezer	Thermo Fisher Scientific, USA (Former UK)	15,00,000.00	
12	Plasma Storage Freezer	Forma FFPF430V-78 plasma boxes (meets standards of AABB, ANRC & FDA)	Thermo Fisher Scientific (Former Jouan, France), USA	13,50,000.00	
Sub-total:				45,00,000.00	
Group D: Blood Component Separation System Equipments					
13	Refrigerated Centrifuge for Blood Component Separation	Cryofuge 6000i- for 12 bags	Thermo Fisher Scientific (Former Jouan, France), USA	37,00,000.00	
14	Refrigerated Centrifuge for Blood Component Separation	Heraeus Multifuge 4KR-for 4 bags	Thermo Fisher Scientific (Former Jouan, France), USA		Alternate offer of sl# 9. Price: Tk.22,50,000.00. though less in price but if future utility is considered, sl#9 is preferred.
15	Manual Plasma Extractor	Plasma Press	Delcon S.r.l, Italy	35,000.00	
16	Platelet Incubator & Agitator	PLT Incubator + PLT agitator PN-150 (capacity 54 bags)	Nuve, Turkey	6,75,000.00	
17	Platelet Agitator only	PLT Agitator PS-54 (Capacity 54 bags)	Nuve, Turkey		Alternate offer of sl#13. Price 2,50,000.00. Though less in price, in future incubator will be required.
Sub-total:				44,10,000.00	

Group E: Blood Center Accessory Equipments					
18	Digital Centrifuge (12 Tubes)	NF 200	Nuve, Turkey	1,30,000.00	
19	Digital Water-Bath	NB 20	Nuve, Turkey	85,000.00	
20	Digital Micropipettes	FINNPIETTE F3 (3 pcs)	Thermo Fisher Scientific (Former Labsystems), Finland	33,000.00	
Sub-total:				2,48,000.00	
Total Import:				1,47,38,000.00	
Group F: Blood Center Accessory Equipments to be procured locally					
21	local accessories for Hematology analyzer (Sl#3)	Online UPS, 1KVA 15 min backup (one unit), Blood Tube Roller Mixer (one unit), PC with monitor & printer (one set)	local	75,000.00	
22	local accessories for Automated apheresis system sl#7	online UPS, 3KVA 15 minute backup	local	25,000.00	
23	Wieght balance for Centrifuge machines		local		
24	Donation Beds/couches	5 pcs	local	1,50,000.00	
25	Lab Tables	As required	local-lumpsum	1,00,000.00	
26	Other furnitures/chairs, wt/ht machines	As required	local lumpsum	50,000.00	
27	Air Conditioning	As required	local	5,00,000.00	
28	Decoration of space	As required		15,00,000.00	
29	Others			1,00,000.00	
Total Local:				25,00,000.00	
Grand Total:				1,72,38,000.00	