



ABSTRACT

Tamil Nadu Health Systems Project – Implementation of Comprehensive Health Management Information System in secondary level hospitals in the State – Pilot Phase– Procurement of hardware components and connectivity, etc.- Expenditure Sanctioned – Orders issued.

HEALTH AND FAMILY WELFARE (EAP1/1) DEPARTMENT

G.O.(Ms) No.223

Dated 8.7.2008

**Thiruvalluvar Aandu 2039,
Aani 24**

Read

1. G.O.(2D) No.68, Health and Family Welfare Department, dated 29.08.2005.

Read also

2. From the Project Director, Tamil Nadu Health Systems Project, Letter No.2271/HSP/E1/2008, dated 26.5.2008.

ORDER:

In the Government order first read above, the Government accorded sanction for hiring of a consultancy firm to develop and implement web based Health Management Information Systems (HMIS) for all the secondary care hospitals in the State. Accordingly, M/S Tata Consultancy Services has been contracted to develop the software and to implement HMIS which includes Hospital Management System (HMS) and Hospital Management Information System.

2. Considering that the target area includes 270 Government Hospitals and 20 Primary Health Centers, the Project Director, Tamil Nadu Health Systems Project, has proposed that the implementation of HMIS may be done in three phases as follows:-

I. Pilot :

- 5 hospitals in 3 districts (2+2+1)
- Office of the Joint Director of Health Services (JDHS) in 3 districts
- Tamil Nadu Health Systems Project (Location for Development and testing of software)
- Director of Medical and Rural Health Services Office (for Monitoring and early acceptance of the system)

II. Phase I

- 5 districts – 36 hospitals – (in Phase I Districts)

- 1 computer with accessories for all Hospitals to make the HMIS functional as a grid through all Government Hospitals
- All Offices of Joint Director of Health Services
- 5 Primary Health Centres (in the selected districts)

III. Phase II

- 24 districts - 230 hospitals
- 15 Primary Health Centres (in the selected districts)

At the institution level (hospital and PHC), a Hospital Management System (HMS) is being installed. This effort will involve procurement for

- a) Provision of LAN (cabling etc) within the selected hospitals in the district
- b) Computers with Peripherals (with UPS or Generator backup)
- c) Consumables
- d) Internet connectivity at Data Centre and Hospitals (as the application is a web-enabled application) with backup i.e broadband can be backed up by ISDN or normal dial up connection.
- e) Change Management Agencies
- f) Software and Tools to monitor Server performance, maintenance and security e.g. Firewall, Anti Virus etc.
- g) Training of health care providers

3. The Project Director, Tamil Nadu Health Systems Project has reported that the pilot phase will cover 5 hospitals located in 3 districts along with the hardware needed for Tamil Nadu Health Systems Project and Directorate of Medical and Rural Health Services. He has stated that the following activities have been taken up:

- a) Assessing the number of nodes and their placement has been completed.
- b) Assessing the LAN cabling that requires to be done and estimate preparation have been completed.
- c) As TNSWAN has been commissioned, all the above hospitals will be linked to TNSWAN from the last Point Of Presence (POP) incurring minimum expenditure to secure internet connectivity. The connectivity arrangements will be carried out by BSNL. Initial discussions have already been held with BSNL and the nature of costs will vary for each hospital depending on the distance of the hospital from the last POP.

4. The Project Director Tamil Nadu Health Systems Project has therefore placed a proposal before the State Empowered Committee to procure hardware components, consumables and services as per the quantities worked out so as to ensure timely execution of the project and adequate time for handholding and change management. The Committee has approved the proposal. The Project Director has requested the Government to issue orders in the matter and provision of Rs.3,06,48,250/- in the Revised Estimate 2008-2009. The activity of establishment of web based Health Management Information System in all secondary care hospitals and some primary

health centres is an approved activity by the World Bank under component III, sub component 1(i) of the Project Implementation Plan and the expenditure involved is reimbursable by the World Bank.

5. The Government, after careful examination accept the proposal and thereby issue order: Permitting the Project Director, Tamil Nadu Health Systems Project to establish the comprehensive web based Health Management Information Systems on pilot basis in 5 Secondary Care hospitals in Padmanabhapuram, Colachel, Tambaram, Sriperumbudur and Sholingur, in the Offices of the Joint Director of Medical and Rural Health Services, Kancheepuram, Kanyakumari and Vellore, Project Management Unit of the Tamil Nadu Health Systems Project and Directorate of Medical and Rural Health Services:-

6. The Government also sanction a sum of Rs.2,88,15,000/- (Rupees Two crore eighty eight lakh and fifteen thousand only), as detailed in the Annexure I to this order towards the procurement of computers with peripherals, LAN connectivity, connectivity to TNSWAN POP, Servers, advertisement cost and cost of computer furniture and a sum of Rs.18,33,250/- (Rupees Eighteen lakh thirty three thousand two hundred and fifty only), as detailed in Annexure II to this order, towards procurement of computer consumables and AMC for all hardware.

7. The expenditure sanctioned in para 6 above shall be debited to the following head of account: "2210. Medical and Public Health - 80. General - 004. Health Statistics and Evaluation - Scheme in the Eleventh Five Year Plan - II. State Plan - PA. Health Management Information System under Health Systems Project.

05. Office Expenses

01. Telephone charges

(DPC 2210 80 004 PA 0512)

Rs.24,00,000/-

05. Furniture

(DPC 2210 80 004 PA 0558)

Rs.7,50,000/-

76. Computer and Accessories

02. Maintenance

(DPC 2210 80 004 PA 7622)

Rs.13,93,250/-

03. Stationery

(DPC 2210 80 004 PA 7631)

Rs.4,40,000/-

PB. Procurement through Tamil Nadu Medical Services Corporation for building capacity to strengthen Health Management Information System

08. Advertisement and Publicity

01. Advertisement Charges

(DPC 2210 80 004 PB 0814)

Rs.2,00,000/-

76. Computer and Accessories**01. Purchase****(DPC 2210.80.004 PB 7611)****Rs.2,54,65,000/-**

8. Necessary additional funds of Rs.49,83,250/- towards LAN connectivity, furniture, AMC and computer consumables will be made in the Revised Estimate / Final Modified Appropriation 2008-2009. Pending provision of such funds, the Project Director Tamil Nadu Health Systems Project is permitted to incur the above expenditure. The Project Director, Tamil Nadu Health Systems Project is requested to include the above expenditure while sending Revised Estimate / Final Modified Appropriation 2008-2009 proposals to Government in Finance Department without fail.

9. The Project Director, Tamil Nadu Health Systems Project, is permitted to procure the required computer with peripherals and computer furniture and distribute them to the hospitals concerned through the Tamil Nadu Medical Services Corporation by following the World Bank procurement procedures.

10. The Project Director, Tamil Nadu Health Systems Project, is permitted to enter into a contract with BSNL for the required connectivity and make payment as per the fixed rates.

11. The Project Director, Tamil Nadu Health Systems Project, is permitted to hire a Change Management Agency, which will manage change within the hospital scenario so as to ensure that the changes in style of functioning are done in such a manner that are learnt and found acceptable to all the staff in the hospitals concerned. The Change Management Agency will also play a key role in training of health care providers and actively involve themselves in health functionaries being accustomed to computers. The Project Director, Tamil Nadu Health Systems Project, is permitted to hire the Change Management Agency by following the World Bank procurement procedures.

12. Out of the sanctioned amount in para six, towards procurement of hardware a sum of Rs.2,64,15,000 (Rupees Two crore sixty four lakh fifteen thousand only) shall not be paid in cash but credited in to the following head of account: "K deposits and Advances - (b) deposits not bearing interest - 8443 - 00 - civil deposits - 800 - other deposits - CE - Deposits of Tamil Nadu Medical Services Corporation Limited (DPC 8443 - 00 - 800 - CE - 000H - Receipts) by a crossed cheque in favour of the Managing Director, Tamil Nadu Medical Service Corporation towards the cost of advertisement, procurement of computers with peripherals, servers, cost of computer furniture, as per the list, quantity and specifications to be provided by the Project Director, Tamil Nadu Health Systems Project, by following World Bank Procurement Procedures and supply the above stores to the Chief Medical Officers/Hospital Superintendents of the project hospitals and to settle the account with the Project Director, Tamil Nadu Health Systems Project.

13. The Project Director, Tamil Nadu Health Systems Project is permitted to have flexibility based upon the pilot, to modify the number of items or packages to be procured, number of change management agencies to be contracted, agencies for LAN connectivity to be contracted, provision of computers, the quantity of consumables to the institutions / offices, within the components without exceeding the total amount sanctioned.

14. This order issues with the concurrence of the State Empowered Committee constituted in G.O. (Ms).No.28, Health and Family Welfare, -dated 28.02.2005 and Finance Department vide its U.O. No. 39891 /Health I / 2008, dated 4.7.2008 and Additional Sanctioned Ledger No.366 (Three hundred and sixty six).

(BY ORDER OF THE GOVERNOR)

V.K. SUBBURAJ,
SECRETARY TO GOVERNMENT

To
The Project Director, Tamil Nadu Health Systems Project, Chennai - 6.
The Director Medical and Rural Health Services, Chennai - 6
The Managing Director, Tamil Nadu Medical Services Corporation, Chennai-8.
The Principal Accountant General (A&E), Chennai - 18.
The Principal Accountant General (Audit I), Chennai -18.
The Pay and Accounts Officer (South), Chennai -35
The Joint Director of Medical and Rural Health Services, Kanniyakumari,
Kancheepuram, Thiruvallur

Copy to:

The Secretary to Government of India, Ministry of Health and Family Welfare,
New Delhi - 11.
The Country Director - India, The World Bank, New Delhi Office, 70, Lodhi Estate,
New Delhi - 3.
The Finance Department, Chennai - 9.

/ FORWARDED BY ORDER /

On 11/11/11
SECTION OFFICER

11/11/11

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PHYSICS 311: CLASSICAL MECHANICS
LECTURE 1: INTRODUCTION
PROF. J. J. HALL

LECTURE 2: NEWTON'S LAWS
PROF. J. J. HALL

LECTURE 3: ENERGY
PROF. J. J. HALL

LECTURE 4: MOMENTUM
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LECTURE 5: OSCILLATIONS
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LECTURE 6: GRAVITATION
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LECTURE 7: ELECTROMAGNETISM
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LECTURE 8: THERMODYNAMICS
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LECTURE 9: QUANTUM MECHANICS
PROF. J. J. HALL

LECTURE 10: RELATIVITY
PROF. J. J. HALL

Annexure - INon Recurring ExpenditureI. Computers with Peripherals

S. No	Item	Numbers	Rate (in Rs.)	Total Cost (in Rs.)
1	Computers for Government Hospitals at Padmanabapuram, Colachel, Tambaram, Sriperumbudur and Sholingur	160	30,000	48,00,000
2	Bar Code Readers	148	5,000	7,40,000
3	Bar Code Printers	12	15,000	1,80,000
4	Dot Matrix Printers -- 80 Columns	35	12,000	4,20,000
5	Office Computers (JDHS Office-15 DM&RHS-50 TNHSP-25)	90	25,000	22,50,000
6	Laser Printers / Scanners	5	20,000	1,00,000
7	UPS for Hospitals	5	1,50,000	7,50,000
8	UPS for Offices of JDHS	3	75,000	2,25,000
	Total			94,65,000

II. LAN Connectivity

S. No	Item	Numbers	Total Cost Involved (in Rs.) (Approx)
1	LAN Connectivity within Hospital (5 hospitals)	5 packages	12,00,000

III. Connectivity to TNSWAN

S. No	Item	Numbers	Rate (in Rs.)	Total Cost Involved (in Rs.) (Approx)	Remarks
1	Connection to the TNSWAN POP	8 (5 Hospitals + 3 Offices of JDHS)	1,50,000 (approximate average)	12,00,000	The Hospitals and the Data Centre will be connected through the TNSWAN. The connection between the Hospital and nearest TNSWAN POP will be done by BSNL.

IV. Servers

S. No	Item	Numbers	Rate (in Rs.)	Total Cost Involved (in Rs.)
1	Servers	1	1,60,00,000	1,60,00,000

V. Advertisement Cost

S. No	Activity	Cost (in Rs)
1	Advertisement cost for procurement of hardware for pilot	2,00,000

VI. Computer Furniture

S. No	Item	Unit cost (in Rs)	Total cost (in Rs.)
1	Set of Computer table and chair for 250 sets	Rs. 3000 per set for 250 sets Rs.3000 x 250	7,50,000

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SECRETARY TO GOVERNMENT

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SECTION OFFICER.

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Annexure - III. Consumables for Pilot

S. No	Item	Numbers (Out patients per year)	Rate	Total Cost (in Rs.)
1	Bar Code Stickers	20,00,000	2 paise per sticker	40,000
2	Papers	20,00,000	10 paise	2,00,000
3	Cartridge	20,00,000	10 paise	2,00,000
	Total			4,40,000

II. AMC for all Hardware

S. No	Activity	Unit cost (in Rs)	Total cost (in Rs.)
1	Annual maintenance contract @ 5 % of purchase value of hardware	2,78,65,000 x 5 %	13,93,250

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SECRETARY TO GOVERNMENT

/ TRUE COPY /

[Signature]
SECTION OFFICER