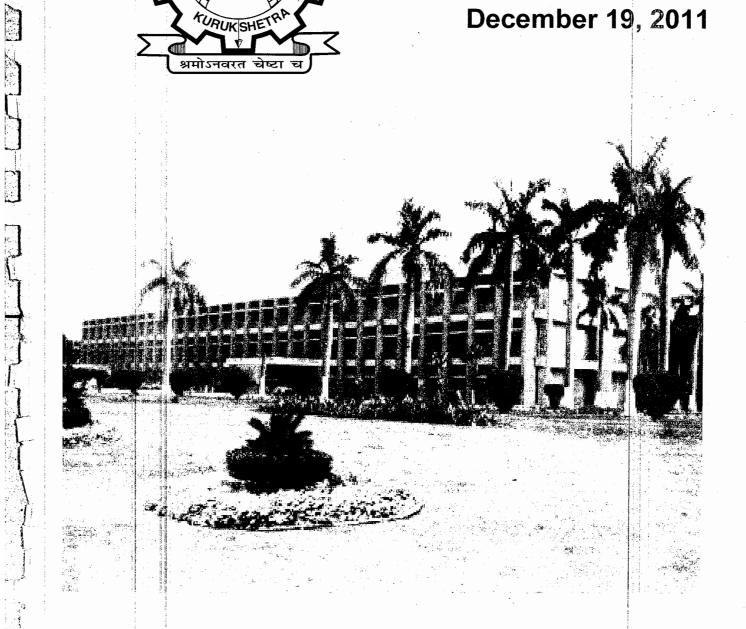


AGENDA FOR 15th MEETING OF BUILDING & WORKS COMMITTEE December 19, 2011



NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

AGENDA FOR 15th MEETING OF BUILDING & WORKS COMMITTEE

VENUE

SENATE HALL

NATIONAL INSTITUTE OF TECHNOLOGY

KURUKSHETRA

DAY

MONDAY

DATE

: 19.12.2011

TIME

: 11:30 AM

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

CONTENTS

ITEM NO.	DESCRIPTION	PAGES
15.1	To confirm the minutes of 14th (Special) meeting of the Building & Works Committee held on 17.06.2010	1-5
15.2	To report the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010.	6-13
15.3	To report the action taken on the minutes of the 14th (Special) meeting of the Building & Works Committee held on 17.06.2010.	14-21
15.4	To consider & approve the Revised Cost Estimate for Boundary Wall of Hostel No. 1-& 2 at NIT, Kurukshetra.	22-24
15.5	To consider and approve the Revised Cost Estimate for Providing 20mm thick premix carpeting "B" type seal coat on various existing roads at NIT, Kurukshetra.	25
15.6	To consider & approve the Revised Cost Estimate for Construction of 20 Nos. Professor & 20 Nos. Asstt. Professor Multi storeyed Staff Housing at NIT, Kurukshetra.	26-32
15.7	To consider & approve the Rough Cost Estimate for construction of 2 No. Institute Main Gates at NIT, Kurukshetra.	33-51
15.8	To consider & approve the Rough Cost Estimate for construction of 2 Nos. Parking at NIT, Kurukshetra.	52-64
15.9	To consider & approve the Rough Cost Estimate for Sewage Treatment Plant (STP) at NIT, Kurukshetra.	65-84
15.10	To consider & approve the Rough Cost Estimate for Cold Water Tanks & Supply Pipe line to the Solar Water Heating System Installed in the Hostel No. 1 to 9 (Boys Hostel, Girls Hostel No. 1 & 2 at NIT, Kurukshetra.	85-109
15.11	To consider and approve the Rough Cost Estimate for Construction of 600 scater Girls Hostel (Multi-Storeyed framed structure, Ground Floor + 5) at NIT, Kurukshetra.	110-111
15.12	To consider and approve the Rough Cost Estimate for Construction of 300 seater Multi-Purpose Boys Hostel including 100 suites for foreign students, research scholars and married PG students. (Multi-Storeyed framed structure Ground Floor + 5) at NIT, Kurukshetra.	112-113
15.13	To consider and approve the Rough Cost Estimate for Construction of 3 Storey bearer barrack comprising of 2 blocks to accommodate 96 bearers at NIT, Kurukshetra.	114-115
.15.14	To consider & approve the Rough Cost Estimate for construction of Boundary Wall (left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) at NIT, Kurukshetra.	116-117

15.15	To consider and approve the Rough cost estimate providing permanent fencing along the lawns & gardens of the Institute with revolving entry gates including CC pathways at NIT, Kurukshetra.	118-119
15.16	To consider & approve the Rough Cost Estimate for widening of Institute Road from Kirmich Road Gate to Hostel No. 4 (approx. length of 400 mtr.) at NIT, Kurukshetra.	120-122
15.17	To consider & approve the Rough Cost Estimate for Providing & Installation of 16/20 meter High Mast lights at Sports Ground and various other location at NIT, Kurukshetra.	123-126
15.18	To consider & approve the Rough Cost Estimate for Renovation of Labs in Electrical, Mechanical and Civil Engineering Departments (Under TEQIP-II) of NIT, Kurukshetra.	127-129
15.19	To consider & approve the Rough Cost Estimate for preparation of Institute Master Plan, NIT, Kurukshetra.	130-134

CONSTITUTION OF BUILDING AND WORKS COMMITTEE

1. Prof. Anand Mohan Chairman Director, National Institute of Technology, Kurukshetra 2 Nominee of the Central Government Member On the B & WC of the Institute, (to be nominated by the MHRD) Through Sh. Rajesh Singh Deputy Secretary (NITs), Deptt. of Higher Education, M.H.R.D., Shastri Bhawan, New Delhi-110001 3 Sh. Vijay Prakash Saha Member Chief Technical Advisor, MECON, Chandigarh, (Safety, Environment, Energy and Management Consultant). W-16, Green Park, New Delhi-110016 4 Prof. V.K. Arora Member Dean (Planning & Development) National Institute of Technology, Kurukshetra Er. Niranjan Singh, 5. Member Superintending Engineer (Civil), Chandigarh Central Circle, CPWD, Chandigarh 6. Er. Vimal Kumar Member Superintending Engineer (Electrical), Chandigarh Electrical Central Circle, CPWD, Chandigarh

Special Invitee

7.

Prof. K.K. Singh

Kurukshetra

Chairman (Estate, Constn & Elect. Mtc),

National Institute of Technology,

8. Dr. Ashwani Jain
Prof. In-charge (Estate & Construction),
National Institute of Technology,
Kurukshetra

9. Dr. Ashwani Kumar
Prof- In- Charge (Elect.Mtc)
National Institute of Technology,
Kurukshetra

10. Er. B. B. Mittal
Executive Engineer (Construction cell)
National Institute of Technology,
Kurukshetra

11. Sh. S.N. Kaushik,

Junior Engineer (Civil) & EO- In- Charge
National Institute of Technology,
Kurukshetra

12. Sh. G. R. Samantaray
Registrar-In-Charge
National Institute of Technology,
Kurukshetra

Item No.15.1 To confirm the minutes of 14th (Special) meeting of the Building & Works Committee held on 17.06.2010

The minutes of 14th (Special) meeting of Building & Works Committee held on 17.06.2010 were circulated amongst the members vide letter No.NIT/14th (Spl.) BWC/3501 dated 23.06.2010. No comments were received from any member. The minutes are enclosed as Annexure-I from page 2 to 5 .

The minutes may be confirmed.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

PROCEEDINGS OF THE 14TH (SPECIAL) MEETING OF THE BUILDING & WORKS COMMITTEE HELD ON 17.06.2010 AT 11.30 A.M IN THE SENATE HALL OF THE INSTITUTE.

PRESENT:

Dr. M.N. Bandyopadhyay, Chairperson Director.
 National Institute of Technology, Kurukshetra

2 Dr. Krishna Gopal, Member Dean (Planning & Development).
National Institute of Technology.
Kurukshetra.

3. Er. Niranjan Singh, # Member
 Superintending Ungineer (Civil).
 Chandigarh Central Circle, CPWD.
 Chandigarh.

4. Er. J.K. Bhatia.
Executive Engineer (Electrical).
Chandigarh Flectrical Central Circle, CPWD.
Karnal

5. Dr. S.K. Sharma, Special Invited Dean (Estate, EM & Constr.).
National Institute of Technology, Kurukshetra.

6. Dr. V.P Singh, Special Invitee Prof. In-charge (Estate & Construction).
National Institute of Technology, Kuruksbetra

7. Prof. C.P Bansal,
Prof. F.C (EN).
National Institute of Techonology.
Kurukshetra.

Special Invitee

Member

8. Er. P.K Aggarwal
Executive Engineer (Construction cell)
National Institute of Technology.
Kurukshetra

Special Invitee

9. Sh. D.K. Kaushik,
Assistant Engineer (Elect.).
National Institute of Technology.
Kurukshetra

Special Invitee

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Sh. S.N. Kaushik,
 Assistant Engineer (Civil),
 National Institute of Technology,
 Kurukshetra

Special Invitee

 Sh. R.P.S. Lohchab, Registrar, National Institute of Technology,

Kurukshetra.

Member-Secretary

The nomince of the MHRD and Sh. Vijay Prakash Saha, Chief Technical Advisor could not attend the meeting.

At the outset the Member-Secretary extended hearty welcome to the Director of the Institute and Chairman of the Building & Works Committee and other Members & Special Invitees in the meeting.

Building & Works Committee took the following decisions:-

Item No:14.1 To confirm the minutes of 13th meeting of the Building & Works Committee held on 25,02,2010.

The Building & Works Committee discussed the comments of Er. Vimal Kumar, member of the B & WC. The minutes of 13th B & WC were confirmed with following observations:

- 1. All the Estimates in future would be prepared on Della Schedule of rates (DSR) on plinth area basis.
- 2. The minutes of item 11.3 be corrected as per institute reply and reported in the next B & WC meeting.

Item No:14.2 To report the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010.

The B & WC noted that the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010 will be reported in the next meeting of the B&WC.

Item No:14.3 To consider & approve the Revised Cost Estimate for Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The Building and Works Committee approved the Revised Cost Estimate amounting to Rs.1072.33 Laes for the construction of Additional Girls Hostel (300 capacity). The B & WC observed and decided that in future the preliminary estimates should be prepared on Plinth Area Rates as per DSR. If any excess expenditure

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of work is within 10% of Administrative Approval & Expenditure Sanction (A/A & E/S), no revised A/A & E/S is required.

Item No:14.4 To consider & approve the Revised Cost Estimate for the construction of MBA/MCA Block - A Two Storey Framed Structure Building at NIT, Kurukshetra.

The Building and Works Committee approved the Revised Cost Estimate amounting to Rs. 586.48 Laes for the construction of AIBA MCA building at NIT, Kurukshetra.

Item No: 14.5 To consider & approve the item(s) of work relating to the construction of Extension Block of Guest House Building at NIT, Kurukshetra.

The Building and Works Committee approved the work of false ceiling amounting to Rs. 5.94 Lacs within the already approved budget amounting to Rs. 181.27 Lacs in the 11th meeting of B & WC for the construction of Extension Block of Guest House Building at NIT. Kurukshetra.

Hem No:14.6 To Consider & approve the Rough Cost Estimate for the Installation of 11 ky Sub-Station for Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The B & WC noted that the Architect has purposed 630 KVA Sub-Station having Estimated Cost of Rs.67.29 Lacs which seemed to be on very high side, there for a committee was constituted by the Director, under the Chairmanship of Dean (P& D) and the committee found that the capacity of Sub-Station & Cost of S/S is very high. So the committee proposed to adopt the same specification as per earlier 11 KV Sub-Station for 350 Seaters Boys Flostel easting Rs. 6.74 Lacs executed in the year 2008 which is working satisfactorily. The cost was calculated on the same specification with some additional items such as additional main penal, additional L.F. cable & reputed make of transformer. The cost calculated came to Rs. 10.21 Lacs.

The Building & Works committee approved the Rough Cost Estimate amounting to Rs.10.21 Lacs for proposed Sub-Station.

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Item No:14.7 To consider & approve the Rough Cost Estimate for Civil Works for the construction of Room (Size -22'x 16' with RCC Roof Slab) to accommodate 11 KV Sub-Station Equipments and main LT Panel for Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate amounting to Rs. 5.35 Lacs for the construction of Room (Size 22'x 16' with RCC Roof Slab) to accommodate 11 KV Sub-Station Equipments and main LT Panel for Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The meeting ended with a vote of thanks to the Chair.

Registrar & Member Secretary. 1876/2016 Building & Works Committee,

NIT, Kurukshetra.

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Director & Chairman, Building & Works Committee, NIT, Kurukshetra

Item No: 15.2 To report the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010

The action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010 is enclosed.

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To report the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010

Item	Subject	oject Decision taken Action taken			
No.					
13.1	To confirm the minutes of 12th (Special) meeting of the Building & works Committee held on 03.09.2009	The Building & Works Committee discussed the comments of Er. D.S. Sangwan, Member of the B & WC in connection with agenda Item No. 12.3 and noted that construction of 350 Seaters Boys Hostel stands dropped as explained in Annexure-II of the agenda Item 13.1 (page 3 of the agenda may be referred to). However, remaining minutes of the 12th (Special) meeting of Building & Works Committee held on	No further action is required.		
13.2	To report the action taken on the minutes of the 11th & 12th (Special) meeting of B & WC held on 28.07.2009 & 03.09.2009	The Building & Works Committee noted and approved the action taken on the minutes of the 11th meeting and 12th (Special) meeting of the B&WC held on 28.07.2009 and 03.09.2009 respectively. The following observations were made on some of the items. (1) Regarding B&WC Item No. 14.3 and 15.2, the B&WC advised that meetings by concerned officers of the Institute be held with the senior PWD officers urgently to find out the root cause of delay in the installation of Tubewell by PWD for PWD colony in NIT, Kurukshetra. Vigorous efforts may be made to insist the PWD for making their own arrangement for water supply on priority basis as the Institute is facing			

	acute shortage of water due to increase in intake of UG & PG students. (2) The B&WC discussed the progress of construction works being carried out in the Institute by the CPWD. The CPWD Officers present in the meeting assured that the work of the construction of Administrative Block will be completed by June, 2010 and the construction of Swimming Pool will be	2. The construction of Administrative Block is near completion & is likely to be handed over to the Institute very soon. The work of Swimming Pool is in progress and CPWD has assured to complete the work by January 2012.
	completed by Oct. 2010. (3) The B&WC advised that the works which were approved by the B&WC previously but the funds were not allocated for these works even after a period of three years, may be dropped. If the items are necessary, the same may again be put up before the B&WC with revised cost estimate. (4) The B&WC advised that	3. Action taken. 4. Noted for
	date of allotment of the work to any agency should be mentioned while reporting the action taken. (5) The B&WC insisted upon that in future the estimate may be prepared on the basis of Delhi Schedule Rates (DSR) in accordance with the CPWD Norms.	5. Noted for compliance.
To consider & approve the Rough cost estimate for providing & laying of RCC NP-2 Hume Pipes for existing open storm water drain & construction of boundary wall for Girls Hostel (300 Capacity) at NIT, Kurukshetra (Approx cost Rs. 14.54 lacs)	The Building and Works Committee ratified the action taken by the Director & Chairman, B&WC in approving the cost estimate amounting to Rs. 14.54 lacs for Providing & laying of RCC NP-2 Hume Pipes for existing open storm water drain & Construction of boundary wall for Girls Hostel (300 Capacity) at NIT, Kurukshetra as per details	Action taken.

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		furnished in the agenda item.	
13.4	To consider & approve the construction of Mega Boys Hostel (1000 Capacity) at NIT, Kurukshetra	The Building and Works Committee ratified the action taken by the Director & Chairman of B & WC in approving the revised cost estimate amounting to Rs. 47.11 Crore for the construction of Mega Boys	Work is in progress.
		Hostel (1000 Capacity) at NIT, Kurukshetra as per details furnished in the agenda item.	
13.5	To consider & approve the rough cost estimate for the construction of boundary wall in Hostel no. 1 & 2 at NIT, Kurukshetra	The Building and Works Committee approved the rough cost estimate amounting to Rs. 25.95 Lacs for the construction of boundary wall in Hostel no. 1 & 2 at NIT, Kurukshetra	No. 15.4 is being placed for revision of
13.6	To consider & approve the rough cost estimate for the construction of 20 Nos. Professor & 20 Nos. Asstt. Professor Multi storeyed staff houses at NIT, Kurukshetra	The B & WC approved the cost estimate amounting to Rs. 14.39 crore for the construction of 20 Nos. Professor & 20 Nos. Associate Professor (previously Asstt. Professor) Multi storeyed staff housing amounting to Rs. 14.39 crore.	Separate agenda Item No. 15.6 is being placed for revision of cost estimate.

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NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

PROCLEDINGS OF THE 13TH MEETING OF THE BUILDING & WORKS COMMITTEE HELD ON 25.02.2010 AT 11.30 A.M IN THE SENATE HALL OF THE INSTITUTE.

PRESENT:

Dr. M.N. Bandyopadhyay,
 Director,
 National Institute of Technology, Kurukshetra

Dr. Krishna Gopal,
Dean (Planning & Development),
National Institute of Technology,
Kurukshetra.

Member

 Er. Niranjan Singh, Superintending Engineer (Civil). Chandigarh Central Circle, CPWD, Chandigarh. Member

Er, Vinial Kumar,
 Superintending Engineer (Electrical),
 Chandigarh Electrical Central Circle, CPWD,
 Chandigarh.

Member

Dr. S.K. Sharma,
 Dean (Estate, EM & Constn.).
 National Institute of Technology, Kurukshetra.

Special Invitee

6. Dr. V.P Singh,
Prof. In-charge (Estate & Construction),
National Institute of Technology, Kurukshetra.

Special Invitee

7. Prof. C.P Bansal,
Prof. I/C (EM),
National Institute of Techonology,
Kurukshetra.

Special Invitee

8. Er. P.K Aggarwal

Executive Engineer (Construction cell)
National Institute of Technology,

Kurukshetra

Special Invitee

9. Sh. D.K. Kaushik,

Assistant Engineer (Elect.). National Institute of Technology, Kurukshetra Special Invited

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Sh. S.N. Khushik,
 Assistant Engineer (Civil),
 National Institute of Technology,

Kurukshetra

11. Sh. R.P.S. Lohchab,

Registrar,

National Institute of Technology,

Kurukshetra.

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Special Invitee

Member-Secretary

The nominee of the MHRD and Sh. Vijay Prakash Saha, Chief Technical Advisor could not attend the meeting.

At the outset the Member-Secretary extended hearty welcome to the Director of the Institute and Chairman of the Building & Works Committee and other Members & Special Invitees in the meeting.

Building & Works Committee took the following decisions:-

Item No:13.1 To confirm the minutes of 12th (Special) meeting of the Building & Works Committee held on 03.09.2009.

The Building & Works Committee discussed the comments of Er. D.S. Sangwan, member of the B & WC in connection with agenda Item No.12.3 and noted that construction of 350 Seaters Boys Hostel stands dropped as explained in Annexure-II of the agenda item 13.1 (page 3 of the agenda may be referred to). However, remaining minutes of the 12th (Special) meeting of Building & Works Committee held on 03.09,2009 were confirmed.

Item No:13.2 To report the action taken on the minutes of the 11th and 12th (Special) meeting of the Building & Works Committee held on 28.07.2009 and 03.09.2009.

The Building & Works Committee noted and approved the action taken on the minutes of the 11th meeting and 12th (Special) meeting of the Building & Works Committee held on 28.07.2009 and 03.09.2009 respectively. The following observations were made on some of the items.

1. Regarding B &WC Item No.14.3 and 15.2, the B &WC advised that meetings by concerned officers of the Institute be held with the senior PWD officers urgently to find out the root cause of delay in the installation of Tubewell by PWD for PWD colony in NFT, Kurukshetra. Vigorous efforts may be made to insist the PWD for making their own arrangement for water supply on priority basis as the Institute is facing acute shortage of water due to increase in intake of UG & PG students.

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- 2. The B & WC discussed the progress of construction works being carried out in the Institute by the CPWD. The CPWD Officers present in the meeting assured that the work of the construction of Administrative Block will be completed by June, 2010 and the construction of Swimming Pool will be completed by Qct., 2010.
- 3. The B&WC advised that the works which were approved by the B&WC previously but the funds were not allocated for these works even after a period of three years, may be dropped. If the items are necessary, the same may again be put up before the B & WC with revised cost estimate.
- 4. The B&WC advised that date of allotment of the work to any agency should be mentioned while reporting the action taken.
- 5. The B&WC insisted upon that in future the estimate may be prepared on the basis of Delhi Schedule Rates (DSR) in accordance with the CPWD Norms.
- Item No:13.3 To consider & approve the Rough Cost Estimate for Providing & Laying of RCC NP-2 Hume Pipes for existing open storm water drain & construction of boundary wall for Girls Hostel (300 Capacity) at NIT, Kurukshetra (Approx. cost Rs.14.54 Laes)

The Building and Works Committee ratified the action taken by the Director & Chairman, B&WC in approving the cost estimate amounting to Rs. 14.54 Lacs for Providing & Laying of RCC NP-2 Hume Pipes for existing open storm water drain & construction of boundary wall—for Girls Hostel (300 Capacity) at NIT, Kurukshetra as per details furnished in the agenda item.

Item No: 13.4 To consider & approve the construction of Mega Boys Hostel (1000 capacity) at NIT, Kurukshetra.

The Building and Works Committee ratified the action taken by the Director & Chairman, of B&WC in approving the Revised Cost Estimate amounting to Rs.47.11 crore for the construction of Mega Boys Hostel 1000 capacity at NIT, Kurukshetra as per details furnished in the agenda item.

Item No: 13.5 To consider & approve the Rough Cost Estimate for the construction of boundary wall in Hostel No. 1 & Hostel No. 2 at NIT, Kurukshetra.

The Building and Works Committee approved the Rough Cost Estimate amounting to Rs. 25.95 Lacs for the construction of boundary wall of Hostel No. 1 & Hostel No.2 at NTT, Kurukshetra.

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item No:13.6 To consider & approve the Cost Estimate for the construction of 20 Nos. Professor and 20 Nos. Assistant Professor Multi Storeyed staff houses at National Institute of Technology, Kurukshetra

The Building and Works Committee approved the Cost Estimate amounting to Rs. 14.39 crore for the construction of 20 Nos. Professor and 20 Nos. Associate Professors (previously Asstt. Professors) Multi Storeyed staff housing amounting to Rs. 14.39 crore.

The meeting ended with a vote of thanks to the Chair

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Registrar & Member Secretary, Building & Works Committee, NIT, Kurukshetra.

Authenticated

Director & Chairman, Building & Works Committee,

NIT, Kurukshetra

Item No: 15.3 To report the action taken on the minutes of the 14th (Special) meeting of the Building & Works Committee held on 17.06.2010.

The action taken on the minutes of the 14th (Special) meeting of the Building & Works Committee held on 17.06.2010 is enclosed.

To report the action taken on the minutes of the 14th (Special) meeting of the Building & Works Committee held on 17.06.2010.

Item No.	Subject	Decision taken	Action taken
No. 14.1	To confirm the minutes of 13th meeting of the Building & Works Committee held on 25.02.2010	The Building & Works Committee discussed the comments of Er. Vimal Kumar, member of the B&WC. The minutes of 13th B&WC were confirmed with following observations: (1) All the Estimates in future would be prepared on Delhi Schedule of rates (DSR) on pliuth area basis. (2) The minutes of item 11. 3 be corrected as per Institute reply and reported in the next B&WC meeting.	1. Noted for compliance. 2. The minutes of item 11.3 corrected. In the first phase: the work of providing & installation of Electrical Sub-Station HT/LT distribution i.e. street lighting & feeder pillars etc. in non-residential area amounting to Rs. 578.00 lacs has been assigned to CPWD vide NIT, Kurukshetra letter no. CC/NO/610/7167 dated 13.08.2009 and the work is in progress. The work relating to the residential area i.e. Providing & Installation of Electrical Sub-Station HT/LT distribution & feeder Pillars in residential area at NIT, Kurukshetra amounting to Rs. 223.40 lacs will be
			executed in the 2nd

			phase.
14.2	To report the action taken on the minutes of 13th meeting of B & WC held on 25.02.2010.	The B &WC noted that the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010 will be reported in the next meeting of B & WC.	Action taken.
14.3	To consider & approve the revised cost estimate of Additional Girls Hostel (300 Capacity), at NIT, Kurukshetra	The B & WC approved the revised cost estimate amounting to Rs. 1072.33 Laes for the construction of Additional Girls Hostel (300 Capacity). The B&WC observed and decided that in future the preliminary estimates should be prepared on Plinth Area Rates as per DSR. If any excess expenditure of work is within 10% of Administrative Approval & Expenditure Sanction (A/A & E/S), no revised A/A & E/S is required.	Noted for compliance.
14.4	To consider & approve the revised cost estimate for construction of MBA/ MCA Block – A two storey framed structure building at NIT, Kurukshetra	The B & WC approved the revised cost estimate amounting to Rs. 586.48 Lacs for the construction of MBA/ MCA building at NIT, Kurukshetra	Work completed.
14.5	To consider & approve	amounting to Rs. 5.94 Lacs	completed & building likely to be taken over
14.6	To consider & approve the rough cost estimate for installation of 11KV Sub Station for	The B & WC noted that the architect has proposed 630	Work completed.

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Additional Girls Hostel lacs which seemed to be on (300 Capacity) at NIT, very high side. There for a Kurukshetra committee was constituted by the Director, under the Chairmanship of Dean (P & D) and the committee found that the capacity of Sub-Station & cost of S/S is very high. So the committee proposed to adopt the same specification as per carlier 11KV Sub-station for 350 Seaters Boys Hostel costing Rs. 6.74 lacs executed in the year 2008 which is working satisfactorily. The cost was calculated on the same specification with some additional items such as additional main penal. additional L.T. cable reputed make of transformer. The cost calculated came to Rs. 10.21 lacs. The Building & Works Committee approved the Rough Cost Estimate amounting to Rs. 10.21 lacs for proposed Sub-Station. 14.7 To consider & approve The B & WC approved the the rough cost estimate rough cost estimate Civil Works amounting to Rs. 5.35 Lacs for Construction of room for the construction of room (size-22' x 16' with RCC (size-22' x 16' with RCC Roof Roof Stab) to Slab) to accommodate 11 KV

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Work completed.

accommodate

Sub-

Girls

Capacity)

Kurukshetra

11

Equipments and main

LT Panel for Additional

Hostel

at

ΚV

(300)

NIT.

Station

Sub-

(300)

Additional

Kurukshetra

and main LT

Capacity)

Station Equipments

Girls

Panel

at

Hostel

NIT.

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

PROCEEDINGS OF THE 14TH (SPECIAL) MEETING OF THE BUILDING & WORKS COMMITTEE HELD ON 17.06.2010 AT 11.30 A.M IN THE SENATE HALL OF THE INSTITUTE.

PRESENT:

STATE OF

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1.	Dr. M.N. Bandyopadhyay, Director, National Institute of Lechnology, Kurukshetra	Chairperson
2	Dr. Krishna Gopal, Dean (Planning & Development). National Institute of Technology. Kurukshetra.	Member
3.	Er. Niranjan Singh. Superintending Ungineer (Civil). Chandigarh Central Circle: CPWD. Chandigarh.	Member
4.	Er. J.K. Bhatia. Éxecutive Engineer (Electrical). Chandigarh Electrical Central Circle, CPWD. Karnal.	Member
5.	Dr. S.K. Sharma, Dean (Estate, FM & Constn.), National Institute of Technology, Kurukshetra.	Special Invitee
6.	Dr. V.P Singh, Prof. In-charge (f. state & Construction). National Institute of Technology, Kurukshena.	Special Invitee
7. 3. 4.	Prof. C.P Bansal, Prof. I.C (EA1). National Institute of Techonology. Kurukshetra.	Special Invitee
8.	Er. P.K Aggarwal Executive Engineer (Construction cell) National Institute of Technology Kurukshetra	Special Invitee
9.	Sh. D.K. Kanshik. Assistant Engineer (Elect.). National Institute of Technology. Kurukshetra	Special Invitee
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 Sh. S.N. Kaushik, Assistant Engineer (Civil). Bational Institute of Technology, Euroksheira

Special Invitee

11. Sh. R.P.S. Luhchab, Registrar, National Institute of Technology, Kurukshetra.

Member-Secretary

The nominee of the MHRD and Sh. Vijay Prakash Saha, Chief Technical Advisor could not attend the meeting.

At the outset the Member-Secretary extended hearty welcome to the Director of the Institute and Chairman of the Building & Works Committee and other Members & Special Invitees in the meeting.

Building & Works Committee took the following decisions:-

Item No:14.1 To confirm the minutes of 13th meeting of the Building & Works Committee held on 25.02.2010.

The Building & Works Committee discussed the comments of Er. Vimal Kumar, member of the B & WC. The minutes of 13th B & WC were confirmed with following observations:

- All the Estimates in future would be prepared on Delhi Schedule of rates (DSR) on plinth area basis.
- 2. The minutes of item 11.3 be corrected as per Institute reply and reported in the next B & WC meeting.

Item No.14.2 To report the action taken on the minutes of the 13th meeting of the Building & Works Committee held on 25.02.2010.

The B-& WC noted that the action taken on the minutes of the 13^{th} meeting of the Building & Works Committee held on 25.02.2010 will be reported in the next meeting of the B&WC.

Item No:14.3 To consider & approve the Revised Cost Estimate for Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The Building and Works Committee approved the Revised Cost Estimate amounting to Rs.1072.33 Lacs for the construction of Additional Girls Hostel (300 capacity). The B & WC observed and decided that in future the preliminary estimates should be prepared on Plinth Area Rates as per DSR. If any excess expenditure

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of work is within 10% of Administrative Approval & Expenditure Sanction (A/A & 1/S), no revised A/A & 1/S is required.

Item No:14.4 To consider & approve the Revised Cost Estimate for the construction of MBA/MCA Block - A Two Storey Framed Structure Building at NIT, Kurukshefra.

The Building and Works Committee approved the Revised Cost Estimate amounting to Rs. 586.48 Lacs for the construction of MBA MCA building at NIT, Kurukshetra.

Item No: 14.5 To consider & approve the item(s) of work relating to the construction of Extension Block of Guest House Building at NTT, Kurukshetra.

The Building and Works Committee approved the work of false ceiling amounting to Rs. 5.94 Lacs within the already approved budget amounting to Rs. 181.27 Lacs in the 11th meeting of B & WC for the construction of Extension Block of Guest House Building at NFF, Kurukshetra.

ttem No:14.6 To Consider & approve the Rough Cost Estimate for the Installation of 11 ky Sub-Station for Additional Girls Wostel (300 capacity) at NIT, Kurukshetra.

The B & WC noted that the Architect has purposed 630 KVA Sub-Station having Estimated Cost of Rs.67.29 Lacs which seemed to be on very high side, there for a committee was constituted by the Director, under the Chairmanship of Dean (P& D) and the committee found that the capacity of Sub-Station & Cost of S/S is very high. So the committee proposed to adopt the same specification as per earlier 11 KV Sub-Station for 350 Seaters Boys Hostel costing Rs. 6.74 Lacs executed in the year 2008 which is working satisfactorily. The cost was calculated on the same specification with some additional items such as additional main penal, additional L.F. cable & reputed make of transformer. The cost calculated came to Rs. 10.21 Lacs.

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The Building & Works committee approved the Rough Cost Estimate amounting to Rs.10.24 Lacs for proposed Sub-Station.

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Item No:14.7

To consider & approve the Rough Cost Estimate for Civil Works for the construction of Room (Size -22'x 16' with RCC Roof Slab) to accommodate 11 KV Sub-Station Equipments and main LT Panel for Additional Girls Hostel (300 capacity) at NIT, Kurukshetra.

The Building & Works Committee approved the Rough Cost Estimate amounting to Rs. 5.35 Lacs for the construction of Room (Size -22'x 16' with RCC Roof Slab) to accommodate 11 KV Sub-Station Equipments and main LT Panel for Additional Girls Hostel (300 capacity) at NIT. Kurukshetra.

The meeting ended with a vote of thanks to the Chair.

Registrar & Member Secretary, Building & Works Committee,

NIT, Kurukshetra.

Authenticated

Director & Chairman,

Building & Works Committee,

NIT, Kurukshetra

THE REPORT OF THE PARTY.

Item No. 15.4 To consider & approve the Revised Cost Estimate for Boundary Wall of Hostel No. 1 & 2 at NIT, Kurukshetra.

The above mentioned work was approved in the 13th meeting of B & WC under agenda item No. 13.5 held 25-2-2010 for an amount of Rs. 25.95 Lacs. The tender for the said work was invited for estimated amount of Rs. 25.95 Lacs and work was allotted to M/s Sarwan Kumar Gupta, Contractor, Kurukshetra (lowest bidder) for a tendered amount of Rs. 35.87 lacs. The agency did not take up the work due to upward escalation in cost of materials such as cement & bricks. The contract agreement was terminated and the earnest money of the agency has been fereficted. Now, the zonal premium on HSR items has been revised w.c.f. November 2011 and the estimated cost works out to be 45.00 lacs.

The B & WC may consider and approve the revised estimated cost of Rs. 45.00 Lacs for the said work.

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		Construction of Boundary Wall of	Hostel N	0.1&2	2 at NIT, F	Curuksl	netra	4.5
	<u> </u>	(BASED ON HSR-1988 & LATEST SAN	CTIONED	PREMI	UM W.E.F.	22-11-2	(011)	
Sr. No.	'ISR No.				Rate	T	l i	
1	6.6	Description Earth work in excavation in foundation,	Qty.	Unit	(in Rs.)	C.P.	Total Rate	Amount
	0.0	trenches etc. in all kind of soils, not						
		exceeding 2 mtrs. depth including						
		dressing of bottom and sides of trenches,						
		stacking the excavated soil, clear from		İ				
		the edge of excavation and subsequent						
		filling around masonry in 15 cm layers]		
		with compaction, including disposal of all		1				
		surplus soil as directed within a lead of		100			-	
2	10.20	20 mtrs	662.31	Cum	1108.10	425%	5817.53	38530.0
2	10.39	Cement concrete 1:4:8 with stone						00000.0
		aggregate 40mm nominal size in						
3	18.22	foundation and plinth.	110.39	Cum	403.10	450%	2217.05	244740.1
ŭ	10.22	Cold twisted deformed (ribbed/tor steel)						
		bars for R.C.C. works where not included in the complete rate of R.C.C. including						
		bending, binding and placing in position						
		complete. (@ Rs. 917.05 per Qtl.)						
		eompiece. (@ Ns. 917.03 per Qti.)	45.45	Qti.	917.05	500%	5502.20	250070 5
4	10.86+	Cement concrete 1:1.5:3 with stone	10.10	<u>Q11.</u>	317.03	300%	5502.30	250079.54
	10.95 (a)	aggregate 20mm nominal size for						
		reinforced concrete work for walls						
		exceeding 20cm thickness (straight and						
		curved) beams, girders, stairs, columns						
		(square or rectangular) battens and						
		lintels etc. excluding steel reinforce but						
		including centring & shuttering laid in						
		position complete in all respects (1st						
		storcy) @ 1101.85+@86.90=@1188.75)	51.00	l	4400 75	45004		
5	10.114	Damp proof course 40mm thick of	51.90	Cum	1188.75	450%	6538,13	339328.69
		cement concrete 1:2:4 using stone				1		
		aggregate 20mm nominal size with 2						
		coats of bitumen 20/30 penetration at						
		1.65kg per sqm. laid hot and sanded.						
		FR=35.05	225.67	Sqm.	35.05	450%	192.78	43503.53
6	11.4	First class brick work laid in cement sand						
		mortar 1:2:4 in foundation and plinth.				ŀ		
7	11.9	First along built	314.22	Cum	424.6	600%	2972.20	933924.68
,	11.9	First class brick work sand mortar 1 : 4 in						
		first storey upto 4 meter above plinth level.	470.00					
8	15.10	15mm thick cement plaster 1:4 on the	473 .92	Cum	445.6	600%	3119.20	1478251.26
-	.0.10	rough side of single or half brick wall	1040.00	Cam	45.05	E000/	<u> </u>	_
9	15.62	Cement pointing 1:2 flush on brick and	1049.88	oqin.	15.65	500%	93.90	98583.73
		tile walls	1049.88	Sam	7 15	500%	44 70	10000 01
10	16.47	White Washing Two Coats	1049.88	Sam.		230%	2.97	46929.64
11	16.61	Finishing walls with exterior decorative	2.0.00		0.3	20070	2.97	3118.14
		cement based paints such as snowcem,					İ	
		robbiacem etc. on new work two coats to						
		give an even shade.	1 0 49.88	Sgm.	7.25	230%	23.93	25118.38
12		Fixing glass pieces, on top of walls	981.20			150%	14 00	13736.80
13	4.1 (a)	Stone (building or pitching) sand, bajri,						107.00.00
		shingle, spalls, brick-bats, brick ballast					ĺ	
		and stone metal	150.00	Cum	4.75	450%	26.13	3918 75



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14	5.2 (a)	Carriage of material (roads), lead more than 2 00 Km excluding loading, unloading and stacking (A) Surkhi, sand, bajri, ballast, stone boulders kankar &						
		building rubbish.	150.00	Cum	12.40	450%	68.20	10230.00
		Total						3,529,993.34
		Add Escalation @ 20%						705,998.67
		Total						4,235,992.01
		Add Contigency@ 5%						211,799.60
		Grand Total						4,447,791.61
		Say Rs.						4,500,000.00

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Executive Engineer
NIT, Kurukshetra

Item No. 15.5 To consider and approve the Revised Cost Estimate for Providing 20mm thick premix carpeting with "B" type seal coat on various existing roads at NIT, Kurukshetra.

The above mentioned work was approved in the 10th meeting of the B & WC held on 29-9-2009 for an amount ofs Rs.39.90 Lacs vide item no. 10.18. The tender for the said work was invited for estimated amount of Rs. 38.16 Lacs and work was allotted to M/s Partap Construction Company, Indri, Karnal (lowest bidder) for tendered amount of Rs. 48.51 Lacs. The work is in progress. The upward revision of cost is due to escalation since 2009.

The B & WC may consider and approve the revised estimated cost of Rs. 48.51 Lacs for the said work.

Item No.15.6

To consider & approve the Revised Cost Estimate for Construction of 20 Nos. Professor & 20 Nos. Asstt. Professor Multi storeyed Staff Housing at NIT, Kurukshetra.

The B&WC in its 13th meeting held on 25.02.2010 approved the cost estimate for the Construction of 20 Nos. Professor & 20 Nos. Asstt. Professor Multi storeyed Staff Housing at NIT, Kurukshetra for an amount of Rs. 14.39 erore. The tender for the above work was floated on the basis of the estimate provided by the Architect/Consultant M/S Benjamin Benjamin & Vats, New Delhi for an amount of Rs. 13.29 erore. The tenders (price bids) were opened on 11.02.2011 and the work was allotted to M/s Apuravakriti Infrastructure Pvt. Ltd., Noida (the lowest tenderer) for a tendered amount of Rs. 16.33 erore. The total covered area of the Multi Storeyed Staff Housing is 11063 sqm. and total cost on covered area basis is 11063 x 16200 = Rs. 1792 lacs, therefore, revision of cost estimate is justified.

Further, it is pertinent to mention here that the initial estimate submitted by the Architect/Consultant for an amount of Rs. 13.29 erore does not include the provision of lifts and DG Sets. However, in the approved cost estimate of B&WC, the above provision of lifts and DG Sets exists. Now, a separate cost estimate has been submitted by the Architect for an amount of Rs. 67.00 lacs for provision of 2 Nos. lifts and DG Sets.

The B & WC may consider and approve the revised cost estimate for the above cited work for an amount of Rs. 17.00 crore (16.33+0.67 crore).

ESTIMATE OF ELECT, SERVICES FOR 20 NOS, PROF. & 20 NOS, AUSTIT, PROF. (MULTI STOREYED) STAFF HOUSING AT NIT, KURUKSHETRA

	SUMMARY	
Sr. No.	PARTICULARS	AMOUNT
1	SUBHEAD-1 " LIFTS"	53.14000.00
2	SUBHEAD-2 " DG SETS"	902773.00
3	SUBHEAD-3" EARTHING & CABLING ETC."	53629.50
	TOTAL	6305402.50
	As a second seco	
	ADD 5% CONTINGENCIES	315270,13
	ADD 1% CESS FOR LABOUR WELFARE FUND	63054.00
	TOTAL	G633726.63
	SAY	67,00,000.00
		The second secon
	THE DETAILED ESTIMATE IS APPROVED FOR Rs. Only (Six	dv seven lacs)
	VIDE T/S NO.	

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ESTIMATE OF ELECT. SERVICES FOR 20 NOS. PROF. & 20 NOS. ASSTT. PROF. (MULTI STOREYED) STAFF HOUSING AT NIT, KURUKSHETRA

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(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01.01.2008									
•	ref. of HSR	Description	Qty.	Unit	Rate (in Rs.)	C.P.	Total Rate (Rs)	Appox. Amount (Rs.)	
1		Supplying, installation, testing & commissioning of 13 Passenger (884 KG) liftshaving contract speed of 1.5 MPS serving different floors in the lift shaft as per detailed specifications enclosed and as under:- Location of Lifts Residences Type-5&6 Speed> 1.5 MPS floors> G+5 Travel> 16.1 Mtrs. (approx.) Sptops & opening> 6/900 mm; Wide X 2000mm High Controller, A.C. variable voltage & variable frequency automatic rescue device complete with dry maintenance free batteries as required. The battery capacity should be adwquate so as to operate the ARD at least seven times a day provided the duration between usage is at least 30 Minutes. Operation: Microprocessor based single						(Rs.)	
		automatic push button/simplex selective collective with /without attendant. Power-415 V, 3 phase, 50 Hz, 4 wires system Type of doors (a) Car Power operated, centre opening horizontal sliding stainless steel door. (b) Landing doors: Stainless Steel (1.5 mm thick) in Moon Rock/Honeycomb finish (Scratch Proof) (c) Hand rail not less than 600mm long at 900mm above floor level to be fixed on all.							
		the three sides adjacent to controlpanel in the lift car. The Lift shall be provided with Brail Sstem. Ceiling as per approval with Fan & CFL Lights. On each Landing outside the lift, a steel plate shall be provided with written on it:-							

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	ref. of HSk	Description	Qty.	Unit	Rate (in Rs.)	C.P.	Total Rate (Rs)	Appox. Amount (Rs.)
		a) DO NOT USE LIFT IN CASE OF FIRE						(RS.)
	M.R.	Voice announcement system in the car to announce the position of the elevator in the hoistway as the car passes or stops at a floor served by the elevator. (as per	2	Nos.	.2672000	each	2672000	5344000
		TOTAL OF SUBHEAD-1 C/O TO SUMMARY						5344000
		011011510 11100 00000						
		SUBHEAD-II "DG SETS"						
	 	DIESEL GENERATING SET 100 KVA						
		0						
		Supplying, erecting, testing, commissioning of 100 KVA Silent DG Set(Ready to use type) consist of Diesel Engine (Water cooled with radiator) developing 127 BHP @						
		1500 RPM coupled to 100 KVA, brushless, 3ph-4 wire alternator mounted on a common Base frame alongwith other						
		accessories i.e. Fuel tank, Battery with leads, AVM pads. DG control panel for						
		Manual push button start/stop of the DG Set complete in all respect etc as required.						
	1	The D.G. Set shall be housed in weather						
		proof enclosure & sound proof canopies fabricated out of 16 SWG CRCA sheet hot						
		rolled MS channel of CRC cold formed pre- fabricated Steel sections, assembled at site						
		withsuitable fasteners door to be provided with EPDN gaskets. The accoustic						
		contained shall be made of modular						
		construction for easy assembling and						
	- NA D	dismantling.			000 770 00			
	M.R.	Diesel Generating Set 10rK.V.A. described	1	Sets	902,773.00	Set	902773.00	902773.00
-		as above	 -		ļ			000777
	 	TOTAL SUBWORK-II C/O TO SUMMARY						902773.00
1	S.R.	Earthing with copper Earth Plate 600mm x 600mm x 3mm thick i/c accessories and	4	Sets	3,263.00	Set	3263.00	13052.00
		providing masonary enclosure with coer plate having locking arrangement and						
		watering pipe etc. (but with out charcoal or						
2	21.0	coke and salt) complete as required. 2 Earthing			ļ			
2	(i)	Earthing with G.I. earth pipe 4.5 m long and	4	each	378.00	150%	945.00	3780.00
	(')	40mm dia with masonary enclosures on the top, etc.		Caon	0,0.00	10070	3-10.00	0,00.00
	(ii)	Extra for using salt & charcoal/coke for pipe earth electrode as required.	4	each	125.00	150%	312.50	1250 00

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	ref. of	Description	Qty.	Unit	Rate	C.P.	Total Rate	Appox.
No.	HS∺				(in Rs.)		(Rs)	Amount
								(Rs.)
	(v)	Extra for charcoal or coke and salt for	4	each	186.00	150%	465.00	1860.00
	<u> </u>	G.I.plate or copper plate earth electrode						
	(xi)	Pdg. And fixing 25mm x 5mm G.I. Strip in	30	Meter	65.10	150%	162.75	4882.50
		40mm dia G.I. pipe from earth electrode as required.						
	(xv)	Pdg. And fixing 25mm x 5mm G.I. Strip on	30	Meter	20.30	150%	50 75	1522 50
		surface or in recess for connections etc. as required with all labour and material.						
	(xiv)	Pdg. And fixing 25mm x 5mm Cu strip on	30	Meter	117.00	150%	292.50	8775.00
	<u> </u>	surface or in recess for connections etc. as						00.00
		required with all labour and material.	Į					
	(x)	Pdg. And fixing 25mm x 5mm Cu strip in	20	Meter	155.00	150%	387.50	7750.00
		40mm dia G.I. pipe from earth electrode as						
		required.	<u> </u>	,				
	(vii)	Supplying & laying 6 SWG G.I. Wire	20	Meter	3.50	150%	8 75	175.00
	1	0.5meter below ground level as conductor						
		earth electrode including thimbles,					[
		soldering. Etc. as required.						
3	31.25	Supply & erectionof Underground cables 1	1			l		
		mtr. below ground level coveredwith sand &						
		bricks including necessary connections,				Ì		
	<u> </u>	digging & refilling the trenches:- (DG Sets)						
	(xxxii)	3.5 x 95 Sq. mm	50	Meter	135.50	150%	311.65	15582 50
		TOTAL SUBHEAD-III C/O TO SUMMARY						58629.50
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KEIPL/038/201108/010

23rd August 2011.

The Executive Engineer, PWD B & R, Kurukshetra, Haryana.

Sub: Supply, Installation, Testing and Commissioning of 1 No. KONE 13 Passenger Elevator at Your Hostel in Kurukshetra, Haryana.

Dear Sir,

With reference to the subject, we wish to submit the following offer for your perusal:

ELEVATOR SPECIFICATION 'A'

The subject 13 – Passenger Mini Space™ Elevator to be supplied and installed in accordance with the following technical specifications:

technical specifications:	
No. of Lifts	01
Type and capacity	Approximately 884 Kg, 13 Persons
Speed	1.5 meter per second
Type of Drive	A.C. Variable Voltage Variable Frequency with 16 – Bit Microprocessor
Location of Machine-room	Permanent Magnet EcoDisc™ Gearless Motors to be placed in the machine
	room directly above Hoistway
Travel	Approximately 15.75 meters [Ground Floor to 5th Floor]
Serving	6 Floors 6 Stops 6 Levels 6 Openings [All on the same side]
Hoist way- Required	2025 MM [wide] x 2425 MM [deep] Clear Dimensions.
Pit Depth Required	1600 MM [deep] below the finished floor level of first landing
Car Size	1100 MM [wide] x 2000 MM [deep]
Car Enclosure	Constructed out Bright Annealed Scratch Resistant Stainless Steel Finish.
Car Entrance	Center Opening Automatic Power Doors in Bright Annealed Scratch Resistant
	Stainless Steel Finish clear opening of 900 MM [wide] x 2000 MM [high]
Hoist way Entrance	Center Opening Automatic Power Doors in Bright Annealed Scratch Resistant
	Stainless Steel Finish with provision of Emergency Key Opening at all Landings with
	a clear opening of 900 MM [wide] x 2000 MM [high]
Door Operation	Automatic D.C. Door Operation with adjustable Door Opening and Closing timings
Control	Simplex Full Collective with or without attendant.
Operation	Automatic
Power Supply	415 Volts, 3 Phase, 50 Hertz Alternating Current
Flooring	PVC Flooring
Fan	1 No. with 300 MM Sweep
Lighting	Diffused Lighting in car
Indicators	Digital Direction and Position Indicators in both car and at all landings

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Other Features	 Battery Operated Emergency Light and alarm with Rechargeable Battery Micro Movement L.E.D. based Buttons Hands Free Press and Speak Intercom with EPABX for three way communication Load Weighing device with overload Bypass feature Steel items such as Door Frames Sill Angles. Fascia Plates, Spring Buffers. Braille Fixtures Digital Lift Announcement System to pre-announce floors and play our standard instrumental music. Additional Car Gate Lock. System Capable of withstanding +10% to -10% Variation in Supply Voltage Fluctuations Automatic Phase Reversal Device Full Height Infrared Safety Curtain. Car Platform constructed out of Cold Rolled Grain Oriented Formed Sheets of Steel Fire rated landing doors for period of one hour only Fireman Drive with Fire Man Switch at Main Lobby KDS 50 Buttons - Call Registration-Red Car False Ceiling in Stainless Steel in Hairline Finish Pit Ladder Motor Compatible for 180 Starts Per hour Automatic Rescue Device to automatically bring the elevator to a landing in
	case of power failure.
	All Signal Fixtures will be in Stainless Steel Face Plates

Our estimated cost for the supply and installation of 1 No. KONE 13 passenger Elevator in accordance with the above technical specifications 'A' will be Rs.26, 72, 000.00 [Rupees Twenty Six Lac and Seventy Two Thousand only] per elevator. These prices are inclusive of all current taxes and duties. Statutory variations will be to your account.

ELEVATOR SPECIFICATION 'B'

The subject 13 – Passenger Mono Space™ Elevator to be supplied and installed in accordance with the following technical specifications:

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No. of Lifts	01				
Type and capacity	Approximately 884 Kg, 13 Persons .				
Speed	1.5 meter per second				
Type of Drive	A.C. Variable Voltage Variable Frequency with 16 – Bit Microprocessor				
Location of Machine-room	Permanent Magnet Synchronous Electric Traction Gearless Motor to be				
• .	hoisted on guide rail within the elevator Hoistway.				
Travel	Approximately 15.75 meters [Ground Floor to 5th Floor]				
Serving	6 Floors 6 Stops 6 Levels 6 Openings [All on the same side]				
Hoist way- Required	1800 MM [wide] x 2425 MM [deep] Clear Dimensions.				
Pit Depth Required	1600 MM [deep] below the finished floor level of first landing				
Car Size	1100 MM [wide] x 2000 MM [deep]				
Car Enclosure	Constructed out Bright Annealed Scratch Resistant Stainless Steel Finish.				
Car Entrance	Center Opening Automatic Power Doors in Bright Annealed Scratch Resistant				
	Stainless Steel Finish clear opening of 900 MM [wide] x 2000 MM [high]				
Hoist way Entrance	Center Opening Automatic Power Doors in Bright Annealed Scratch Resistant				
	Stainless Steel Finish with provision of Emergency Key Opening at all Landings with				
	a clear opening of 900 MM [wide] x 2000 MM [high]				
Door Operation	Automatic D.C. Door Operation with adjustable Door Opening and Closing timings				
Control	Simplex Full Collective with or without attendant.				
Operation	Automatic				
Power Supply	415 Volts, 3 Phase, 50 Hertz Alternating Current				
Flooring	PVC Flooring				
Fan	1 No. with 300 MM Sweep				

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Item No. 15.7 To consider & approve the Revised Cost Estimate for construction of 2 No. Institute Main Gates at NIT, Kurukshetra.

The above mentioned work for construction of 2 No. Institute Main Gates was approved in the 6th meeting under item No. 6.10 held on 24-4-2006 for Rs. 26.95 Lacs. The work could not be under-taken due to non-allocation of funds. Executive Engineer, CPWD has now submitted a cost estimate for the above work for an amount of Rs. 82.991 lacs.

The B & WC may consider & approve the rough cost estimate for the above cited work for an amount of Rs.82.991 lacs.

Director (१९८८) होन्द्रीय लोक निर्माण विभाग Received (१९८८) केन्द्रीय लोक निर्माण विभाग Time........ करनाल केन्द्रीय मण्डल NIT, KURUKSHETRA. 448, सुभाष कालोनी, करनाल

संख्या-ऽ≈०(142)/यो.शा./क.के.मं/2011/4086 N.L.T. KURUKSHE

दिनांक 30-11-2011

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ECAET The Director,

NIT, Kurukshetra

BEN HU (CW WS SW PC PS EDC

PE (CON PT PCE PRO LMO L

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C/o gate at university side & Kirmitch road side of NIT, Kurukshetra.

संदर्भ :

आपका पत्र संख्या cc/1533/5788 dt.30.09.2011.

महोदय,

उपरोक्त कार्य का प्रारम्भिक प्राक्कलन जिसकी लागत रूपये 41.51,600/-है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न हैं।

आपसे अनुरोध है कि उपरोक्त स्वीकृति जल्दी से जल्दी भेजें ताकि अधिम कार्यवाही की जा सकें। प्राक्कलन की एक प्रति भी संलण्न करें तथा उपरोक्त कार्य के लिये धन जल्दी से जल्दी जमा करवार्ये।

भवदीरा.

संलग्न : उपरोक्त दो प्रतियों में।

कार्यपालक अभियंता करनाल केन्द्रीय मंडल के.लो.नि.वि,करनाल

प्रतिलिपि :-

 कार्यपालक अभियंता (वै.), करनाल केन्द्रीय विद्युत मण्डल, के.लो.नि.वि, करनाल सिविल कार्य के अनुमान सिहत। आपसे अनुरोध है कि उन्त कार्य का विद्युत प्राक्कलन बनाकर संबंधित सक्षम अधिकारी को भेजें।

2. सहायक अभियन्ता, कुरूक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को सूचनार्थ।

कार्यपालक अभियंता

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Appendix-50 (Reference – Para 3.6.3) LETTER OF ACCEPTANCE OF DEPOSIT WORKS (To be issued to the client department)

To	The Director
	NIT karakshelog.

Sub: Execution of Deposit works.

C/c Gate at University stile and Klymitch road & E

GNIT Kuyukshelva. (Indicate name of work)

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject to the following :

- Full estimated cost of the work as worked out by CPWD including departmental charges will have to be deposited by the client department before the work is taken up for execution. No interest will be paid by CPWD to the client department for such deposits.
- The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required, take responsibility for demolition/disposal of existing buildings/structures.
- CPWD does not bind itself to complete the work within the estimated cost. If additional fund's are required,
 the same will have to be provided by the client department. Necessary revised estimate will be submitted as
 and when required.
- 4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement. CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.
- Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.
- 6. After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These Local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.
- The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- 8. The client department will help CPWD in a) providing site for labour huts for the contractor's labour free of cost, b) providing free access to contractor's materials and labour to the site of work. C) providing electricity connection for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity board/authority.
- 9. CPWD may at its discretion allow the clients to deposit the funds in installments. In such cases 33 1/3% of the estimated cost should be deposited as advance. Thereafter, expenditure incurred should be reimbursed in full through monthly bills. The initial deposit of 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.
- 10. In cases where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further

Yours faithfully,

Executive/Enginee

- Karnel Control Dielsjan. - CPWO, 40%, Julius, h Colons

WARNAL-10001 (Big)

Central Public Works Department

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Name of Work

: C/O Gate at university side & Kirmitch road side of NIT Kurukshetra.

Major Head	Minor Head	Detailed Head

This preliminary estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 41.51.600/- i/c 3% contingencies.

REPORT

History

This preliminary estimate amounting to Rs. 41,51,600/- i/c3% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from Client Department vide letter No.cc/1533/5785 dt.30.09.2011.

Design & Scope

Following provision has been made in the estimate:-

- 1. C/o one gate at university side & another at Kirmich road side as per architect drawing attached.
- 2. C/o RCC pillar with granite tile wall linning fixed with stainless steel cramps & dash fastner.
- 3. P/F stainless steel gate.
- 4. CC pavement of area 10m x 20m near the university gate & 20X20mtrs at Kirmich road gate has been taken.
- 5 Noprovision for electric work has been taken which shall be submitted by EE elect. 6 Dismentling of existing gate / structure has not been taken as the same shall be done

by client dept.

Specification

As per CPWD Specification 2009 vol I to II with upto date correction slip.

WC

Shall be met out of contingencies.

Establishment

T & P

Shall be arranged by the contractor.

Land

Available.

Rate

As per DSR 2007.

Method

By contract after call of tender.

Time

6 Months

Cost

Rs.41.51,600/- i/c 3% contingencies.

Executive Engineer Karnal Central Division CPWD, Karnal

		ABSTRACT OF COST				
Name of	Work:	C/O Gate at university side & Kirmitch road side of NIT SCHEDULE OF WORK	「Kuruksho	etra.		
S. No	Item Cod	Description of Items	Qty	Rate	Unit	Amoun
1	2	EARTH WORK				
1 1	2.1	Earth work in surface excavation not exceeding 30 cm in				
		depth but exceeding 1.5 m in width as well as 10 sum on				
		plan including disposal of excavated earth upto 50 m				
		and lift upto 1.5 m, disposed soil to be levelled and				
		neatly dressed :				
1.1.1	2.1.1	All kinds of soil	600	2073.6	sqm	12442
1.2	2.8	Earth work in excavation by mechanical means				
		(Hydraulic Excavator)/ manual means in foundation				
		trenches or drains (not exceeding 1.5 m in width or 10				
		sum on plan) including dressing of sides and ramming				
		of bottoms, lift upto 1.5 m, including getting out the				:
		excavated soil and disposal of surplus excavated soil as		:		:
	0.0.4	directed, within a lead of 50 m.				
1.2.1	2.8.1	All kinds of soil.	54	103.4	cum	5584
1.3	2.25	Filling available excavated earth (excluding rock) in		:		:
		trenches, plinth, sides of foundations etc. in layers not				•
		exceeding 20cm in depth, consolidating each deposited				
		layer by ramming and watering, lead up to 50 m and lift	20	45.7		044
2		upto 1.5 m.	20	45.7	cum	914
2	4	CONCRETE WORK				
2.1	4.1	Providing and laying in position cement concrete of				
		specified grade excluding the cost of centring and		•		
		shuttering - All work upto plinth level :				,
2.1.1	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone	98	2237.75	oum	219300
2.2	4.10	aggregate 40 mm nominal size)	90	2237.75	cum	219300
2.2	4.10	Providing and laying damp-proof course 40mm thick				
		with cement concrete 1;2:4 (1 cement : 2 coarse sand :				
		4 graded stone aggregate 12.5mm nominal size).	4.5	111 15	cam	649
2.2		Applying a seet of reciding potrology bitumen of	4.5	144.15	sgm	:
2 3	4.13	Applying a coat of residual petroleum bitumen of				
ļ		penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the				
		surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	4.5	58.6	sam	264
2.4	4.47	Making plinth protection 50mm thick of cement concrete	4.0	30.0	. aqını	23
2.4	4.17					
		1:3:6 (1 cement : 3 coarse sand : 6 graded stone		i		
		aggregate 20 mm nominal size) over 75mm bed by dry				
		brick ballast 40mm nominal size well rammed and		ž.		
		consolidated and grouted with fine sand including	10	222 65	cam	4230
	-	finishing the top smooth.	19:	222.65	sqm	4230
3	5	REINFORCED CEMENT CONCRETE		, i		
3 1	5.1	Providing and laying in position specified grade of				
		reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All				
211	. 540	work upto plinth level: 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone				
3 1.1	5.1.2		20	3732	cum	. 74640
		aggregate 20 mm nominal size)		3102		

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5. No	Item Cod	Description of Items	Qfy	Rate	Unit	Amour
3.2	5.2	Reinforced cement concrete work in walls (any	,		01111	Anour
		thickness), including attached pilasters, buttresses,				
		plinth and string courses, fillets, columns, pillars, piers,				
		abutments, posts and struts etc. upto floor five level				
		evoluting cost of contring shuttering finish.				
		excluding cost of centring, shuttering, finishing and				
0.3	F 0 0	reinforcement :				
3.2.1	5.2.2	1:11/2;3 (1 cement : 11/2 coarse sand : 3 graded stone				
		aggregate 20 mm nominal size)	23	4092.35	cum	9412
3.3	5.9	Centring and shuttering including strutting, propping etc.		, , , ,	·	0 12
		and removal of form for :				
3.3.1	5.9.1	Foundations, footings, bases of columns, etc. for mass				
	0.0	concrete.			٠.	
3.3.2	502		24	119.25	sqm_	286
3.3.2	5.9.2	Walls (any thickness) including attached pilasters,				
		buttresses, plinth and string courses etc.	101	180.4	sam	1822
3.3.3	5.9.3	Suspended floors, roofs, landings, balconies and access				
		platform.	9	187.35	sgm	168
3.3.4	5.9.4	Shelves (Cast in situ)				
3.3.5	5.9.5	Lintels, beams, plinth beams, girders, bressumers and	2	187.35	sqm	37
	0.0.0					
	500	cantilevers.	60	162.65	sam	975
3.3.6	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.				
			28	238.4	sam	667
3.3.7	5.9.16	Edges of slabs and breaks in floors and walls.	:			
3.3.7.1	5.9.16.1	Under 20 cm wide	20	٠		
3.3.8				61.1	metre	122
	5.9.17	Cornices and mouldings	9	323	sam.	290
3.4	5.11	Extra for additional height in centring, shuttering where				
		ever required with adequate bracing, propping etc.		•		
		including cost of de-shuttering and decentring at all				
		levels, over a height of 3.5 m, for every additional height				
		of 1 metre or part thereof (Plan area to be measured)				
		The second secon				F34. 54.
3.4.1	5.11.1	Suspended floors, roofs, landing, beams and balconies				
		(Plan area to be measured).	169	70.2	sam	1186
3.5	5.22	Reinforcement for R.C.C. work including straightening,			'	
	•	cutting, bending, placing in position and binding all				
·> 4		complete Upto plinth level.				
3.5.1	5.22,6	Thermo-Mechanically Treated bars.	4000	42.7	kg	17080
3.6	5.22A	Reinforcement for R.C.C. work including straightening,				
		cutting, bending, placing in position and binding all				
		complete. Above plinth level.				
261	E 2014 C	a from the contraction of the co	0000	". <u></u>		
3.6.1	5.22A.6	Thermo-Mechanically Treated bars.	6900	42.7	kg	29463
3 7	5.40	Reinforced cement concrete work in beams, suspended				
		floors, roofs having slope upto 15° landings, balconies,				
		shelves, chajjas, lintels, bands, plain window sills,				
		staircases and spiral stair cases upto floor five level				
		excluding the cost of centring, shuttering, finishing and		:		
		reinforcement with 1:11/2:3 (1 cement : 11/2 coarse sand :				
		3 graded stone aggregate 20 mm nominal size).(1)				
	-	•	11.5	4046.2	Cum	4653
4	6	DRICK WORK	. 11.5	4040.2	Culti	4000
4	6	BRICK WORK				
4.1	6.1	Brick work with F.P.S. bricks of class designation 75 in				
		foundation and plinth in:				
4.1.1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	8	2121.75	cum	1697
4.2	6.4	Brick work with F.P.S. bricks of class designation 75 in:				
T. C.	0.4					
		superstructure above plinth level upto floor V level in all				
		shapes and sizes in :				
4.2.1	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	10.5	2601.9	cum	2732

. No	Itam Cad	Description of Items	O4:-			<u> </u>
13	6 44	Brick edging 7cm wide 11.4cm deep to plinth protection with bricks of class designation 75 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Qty	Rate	Unit	Amoun
_			27	16.25	metre	439
; ; 1	8 8.2	MARBLE WORK				
	0.2	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for				
		kitchen platforms, vanity counters ,window sills , facias				
:		and similar locations of required size of approved shade,				
		colour and texture laid over 20mm thick base cement				
		mortar 1:4 (1 cement : 4 coarse sand) with joints treated				
		with white cement, mixed with matching pigment, epoxy				
		touch ups, including rubbing, curing moulding and				
		polishing to edge to give high gloss finish etc. complete at all levels.				
5.1.1	8.2.2	Granite of any colour and shade				
5.1.1,1	8.2.2.2	Area of slab over 0.50 sum.	76	2575.1	sam	195708
5.2	8.3	Extra for providing edge moulding to 18mm thick marble	- '-:	2010.1	34111	195700
		stone counters, Vanities etc. including machine polishing				
		to edge to give high gloss finish etc. complete as per				
		design approved by Engineer-in-Charge.				
5.2.1	8.3.2	Cranita waste				
5.3	8.7	Granite work. Providing and fixing cramps of required size & shape in	76	97.6	metre	
	0.7	RCC/ CC backing with cement mortar 1:2 (1 cement :2				
		coarse sand) including drilling necessary hole in stones:				
		and embedding the cramp in the hole (fastener to be				
		paid separately).	4			
5 3.1	8.7.2	Stainless steel cramps.	390	529.5	kg	206505
5.4	8.8	Providing and fixing expansion hold fasteners on C.C.				
		/R.C.C. surface backing including drilling necessary				
- 4 4		holes and the cost of bolt etc complete.				
5 4.1 5.4.1.1	8.8.1	Wedge expansion type	1400	10.05		
5.5	8.8.1.2 8.9	Fastener with threaded dia 10 mm. Stone tile (polished) work for wall lining over 12mm thick	1488	18.95	each	28198
J. Q	0.0	bed of cement mortar 1:3 (1 cement : 3 coarse sand)				
		and cement slurry @ 3.3 kg/sum including pointing in				
		white cement complete.		:		
5.5.1	8.9.1	8mm thick.				i
5.5.1.1	8.9.1.2	Granite of any colour and shade.	134	1116.3	sam	149584
5	9	WOOD AND P. V. C. WORK				
6.1	9.83	Providing and fixing IS: 3564 - having brand logo with				
		ISI embossed on the body, door weight upto 35 kg. and				
		door width upto 700mm. Aluminium die cast body				
		tubular type universal hydraulic door closer with necessary accessories and screws etc. complete.	2	610.6	each	1221
5.2	9.96	Providing and fixing aluminium sliding door bolts ISI	٠ .	0,10,0	each.	122.1
J. 12	0.00	marked anodised (anodic coating not less than grade				
		AC 10 as per IS: 1868) transparent or dyed to required				
		colour or shade with nuts and screws etc. complete :				
3.2.1	9.96.2	250x16 mm	2	134.1	each	268
6.3	9.100	Providing and fixing aluminium handles ISI marked				
		anodised (anodic coating not less than grade AC 10 as				
		per IS: 1868) transparent or dyed to required colour or				
		shade with necessary screws etc. complete:				

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S. No		E Description of Items	Qty	Rate	Unit	Ameun
6 3.1	9.100.1	125 mm	4	48.8	each	195
6.3.2 5.4	9.100.3	75 mm	24	28.35	each	680
7.4	9.101	Providing and fixing aluminium hanging floor door				
		stopper ISI marked anodised (anodic coating not less				
		than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc.:				
		complete.				
6.4.1	9.101.2	Twin rubber stopper	2	52.0		
7	10	STEEL WORK	۷,	53.9	each	108
7.1	10.1	Structural steel work in single section fixed with or		****		
		without connecting plate including cutting, hoisting, fixing		, .		
		in position and applying a priming coat of approved steel				
		primer all complete.	97	42.15	kg	4089
7.2	10.69	Providing and fixing Stainless Steel (of grade SS:304)			9	
		Gate made of hollow tubes, channels, caps, flats etc. for				
		staircases, passages and other areas etc. including				
		shaping, welding, grinding, buffing, polishing and fixing				
· ·		the same to RCC slab/ beams etc. with Stainless Steel				
		100mm long 10mm dia -fasteners including providing				
		bend & tees at junctions and necessary shop drawings				
		etc. complete as per directions of Engineer-in-Charge.				
		(For payment purpose only stainless steel components				
		shall only be measured and paid on weight basis.)				
7.0	40.75	and the second of the second o	1140	551	Kg.	628140
7 3	10.70	Providing and fixing stainless steel alphabet in English &				
2	1.1	Hindi of required size.	3	50000	L.S.	150000
8.1	11 11 36	FLOORING			,	
3.1	רוני דד	Providing and fixing 1st quality ceramic glazed wall tiles				
		conforming to IS: 15622 (thickness to be specified by		1		
		the manufacturer) of approved make in all colours,				
		shades except burgundy, bottle green, black of any size		:		
		as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement				
		Mortar 1:3 (1 cement : 3 coarse sand) and jointing with				
		grey cement slurry @ 3.3kg per sum including pointing		•		
		in white cement mixed with pigment of matching shade!				
		complete.	2	5566		1110
8.2	11.37	Providing and laying Ceramic glazed floor tiles 300x300	, 2 ,,	556.6	sqm	1113
0.7_	11.07	mm (thickness to be specified by the manufacturer) of				
		1st quality conforming to IS: 15622 of approved make in:				
Ì		colours such as White, Ivory, Grey, Fume Red Brown,				
		laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4-				
		Coarse sand) including pointing the joints with white				
		cement and matching pigment etc., complete.				
		content and matering pigment etc., complete.	8	598.65	cam	4790
9	12	ROOFING	Ü	0,00,00	sqm	4789
9.1	12.15	Painting top of roofs with bitumen of approved quality at				
	.2.10	17kg per 10 sum impregnated with a coat of coarse				
		sand at 60 cudm per 10sqm including cleaning the slab				
		surface with brushes and finally with a piece of cloth-				
		lightly soaked in kerosene oil complete:				
		ngintry source in retosette on complete.				
9.1.1	12.15.1	With residual type petroleum bitumen of penetration				
V. 1.	12.10.1	80/100	8	63	sqm	504
		007.00			3411	504

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S. No	Item Cod	Description of Items	Qty	Rate	Unit	Amount
92	'2 19	Providing and laying brick tiles of class designation 100 over mumty roofs grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12 mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat:			G.III.	· Amount
9.2.1 9.3	12.19.1 12.21	With F.P.S. brick tiles Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :	8	184.35	sqm	1475
9.3.1	12.21.1	In 75x75mm deep chase	16	67.35	metre	1078
9.4	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm		:	,,,,,,,,	
	. :	nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.	:	!		
9.5	12.37	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine	2.	108	each.	216
9 5.1	12.37.1 13	sand) Stone ware spout FINISHING	2,	36.15	each	72
10.1.1	13.5 13.5.1 13.41	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand) Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade	47	96.35	sqm	4528
10.2.1	13.41.1	New work (two or more coats) over and including			-	
10.3	13.44	priming coat with cement primer. Finishing walls with water proofing cement paint of	38	41.55	sqm	1579
10.3.1	13.44.1	required shade: New work (Two or more coats applied @ 3.84 kg/10				
11	16	sum). ROAD WORK	10	30.8	sqm	308
11.1	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand, filling the				
		joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	80	346.35	sqm	27708

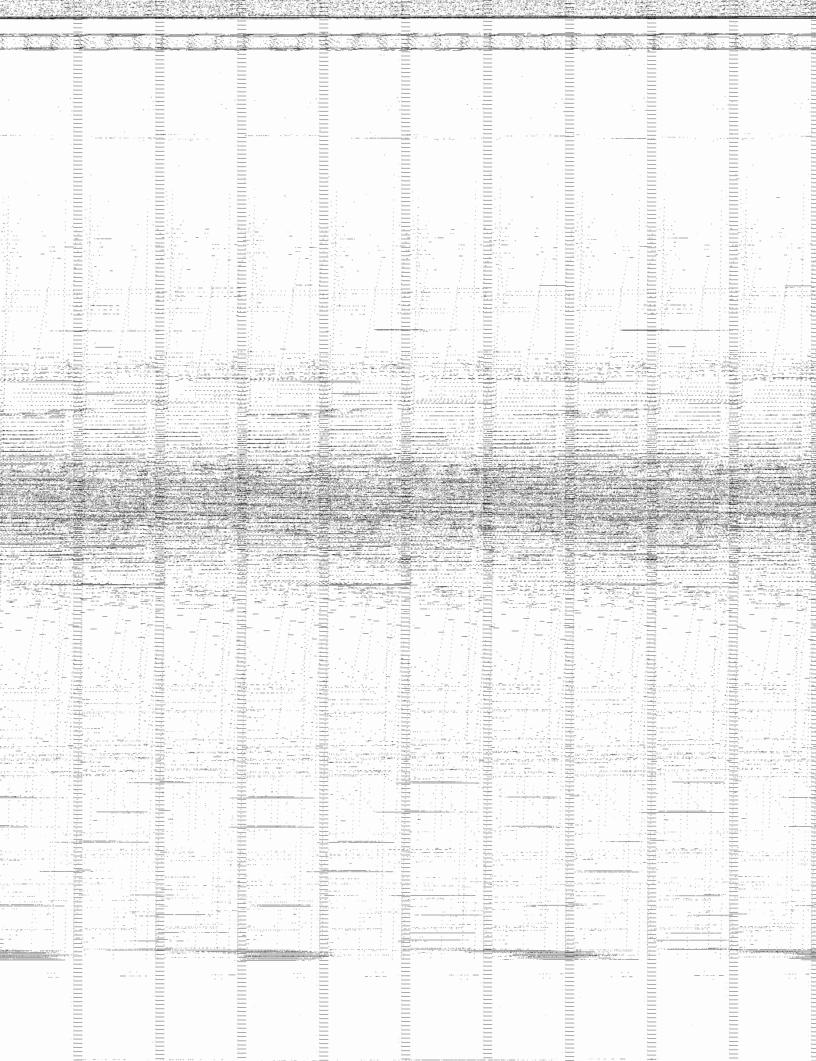
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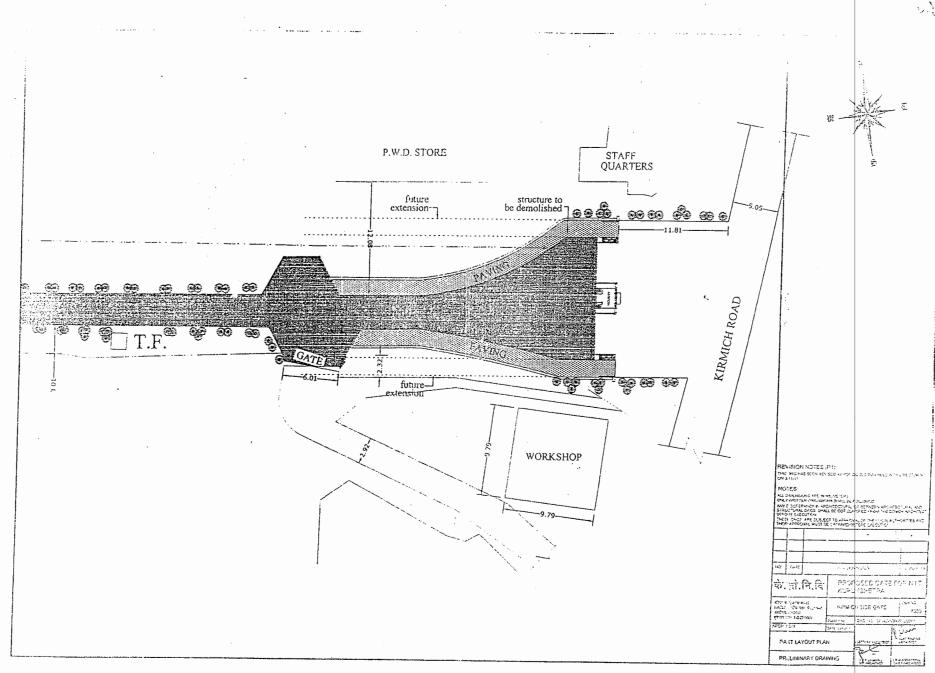
INO	Item Code	Description of Items	Cltss	Det-	11	^
	16.69	Providing and laying at or near ground level factory	Qty	Rate	Unit	Amoun
		made kerb stone of M-25 grade cement in position to				
		the required line, level and curvature jointed with cement				
		mortar 1:3 (1 cement : 3 coarse sand) including making				
		joints with or without grooves (thickness of joints except				
		at sharp curve shall not to more than 5mm) including				
		making drainage opening wherever required complete		:		
		etc. as per direction of Engineer-in-charge (length of		:		
		finished kerb edging shall be measured for payment).				
		(Precast C.C. kerb stone shall be approved by Engineer-		,		
	40.05	in-charge).	1.1	4252.7	cum	4678
1.3	16.85	Providing and laying cement concrete of 1:11/2:3 (1				
		Cement: 1½ coarse sand: 3 graded stone aggregate				
		20mm nominal size) in pavements having thickness				
		100mm to 125mm with Tremix system of flooring:				
		involving all required operations such as potter/surface!				
		vibrations, vaccum dewatering with suction matts with				
		electrical pumps, side guide channels for side		į		
		shuttering, screed vibrator, power trowelling, broom		:		
		finish to top surface, cutting grooves of sizes as per				
		CPWD Specifications Vol-V by mechanical cutter for				
		dummy (intermediate) & construction joints and filling				
		with premoulded joint filer and laid to required slope,				
		camber and super elevation and curing by ponding of				
		water. The rates shall be inclusive of all operations,				
		machinary T&P, electrical charges and labour involved				
		etc. complete as per directions of Engineer-In-Charge.		;		
	_ 1.		90_	4619	cum	415710
	21	ALUMINIUM WORK				
2.1	21.1	Providing and fixing aluminium work for doors, windows,				
		ventilators and partitions with extruded built up standard				
		tubular sections/ appropriate Z sections and other				
		sections of approved make conforming to IS: 733 and IS				
		: 1285, fixed with rawl plugs and screws or with fixing				
		clips, or with expansion hold fasteners including				
		necessary filling up of gaps at junctions, at top, bottom				
		and sides with required EPDM rubber/neoprene gasket				
		etc. Aluminium sections shall be smooth, rust free,				
		Ett. Midminum socions shall be shlooth, fust feet				
		straight mitrod and isinted maghanically whorever				
		straight, mitred and jointed mechanically wherever				
		required including cleat angle, Aluminium snap beading				
		required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel		:	•	
		required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and			:	
		required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and		: :	; ;	
	·	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and	:		•	
		required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and		. ;		
		required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately):				
	21.1.1	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion.		. ;		
2.1.1 2.1.1.1	21.1.1 21.1.1.2	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately):		. ;		
	4.4	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion.	176	306.3	kg	53909
	4.4	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion. Powder coated aluminium (minimum thickness of	176	306.3	kg	53909
2.1.1.1	21.1.1.2	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron) For shutters of doors, windows & ventilators including	176	306.3	kg	53909
2.1.1.1	21.1.1.2	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision	176	306.3	kg	53909
2.1.1.1	21.1.1.2	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost	176	306.3	kg	53909
2.1.1.1	21.1.1.2	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be	176	306.3	kg	53909
2.1.1.1	21.1.1.2	required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be raid for separately): For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost	176	306.3	kg	53909

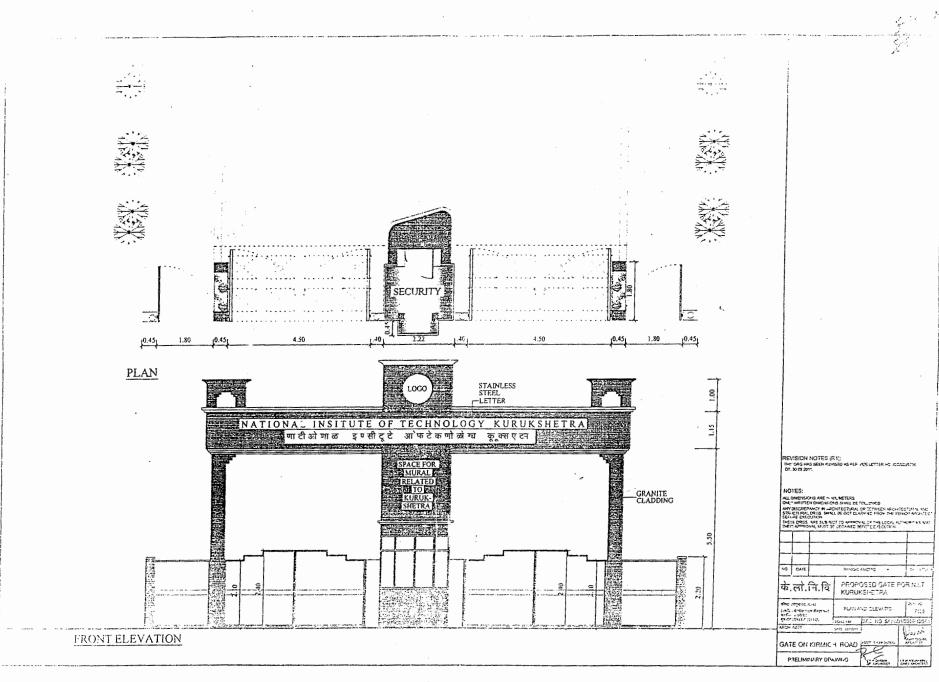
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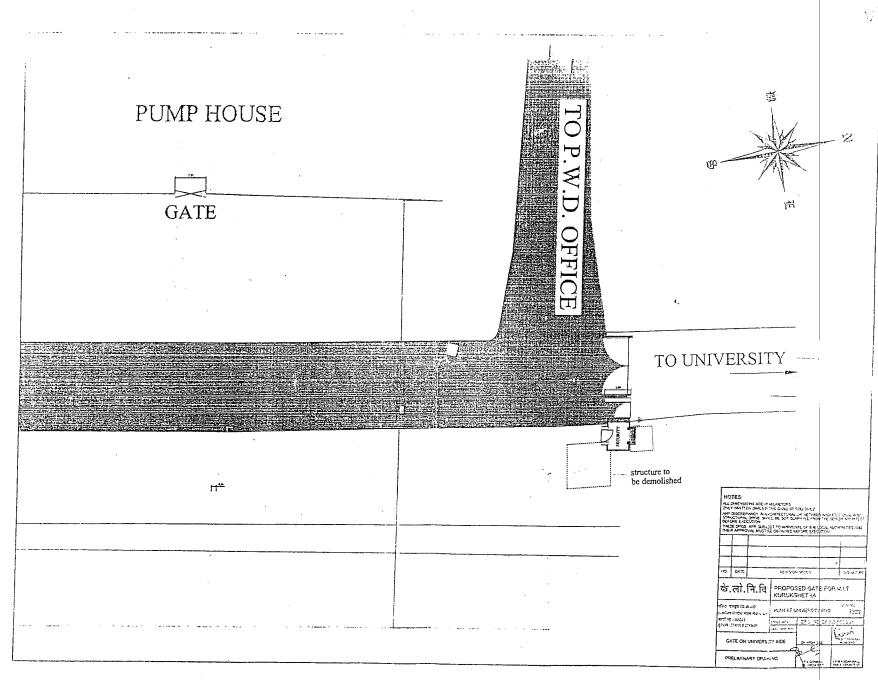
							11.13
3. No 12.2	Item Coc 21.3	Providing and fixing glazing in alumination ventilator shutters and partitions etc. neoprene gasket etc. complete as producing and the directions of en (Cost of aluminium snap beading shaitem):	with EPDM rubber/ er the architectural- gineer-in-charge	Qty	· Rate	Unit	Amount
12.2.1	21.3.1 21.11	With float glass panes of 4.0 mm thick Providing and fixing stainless stee adjustable friction windows stays of with necessary stainless steel screw hung windows as per direction of complete.	I (SS 304 grade) f approved quality vs etc. to the side	20	554.95	sqm	11099
12.3.1	21.11.3	355 X 19 mm TOTAL Add: 37% Cost Index		12	247.55	each	2971 3 023629
					:		813614
		Total Add: 3% Contingencies					3837243
		Total	-				115117 3952360
		Add: 1% Labour Cess					
+		Total		•			39524 3991884
		Add : 4% Vat					159675
		Grand Total					4151559
		Say Rs. 41,51,600	/-		.,	=	4151558
		· · · · · · · · · · · · · · · · · · ·			Karna	cutive Engi Il Central D PWD, Karn	ivision

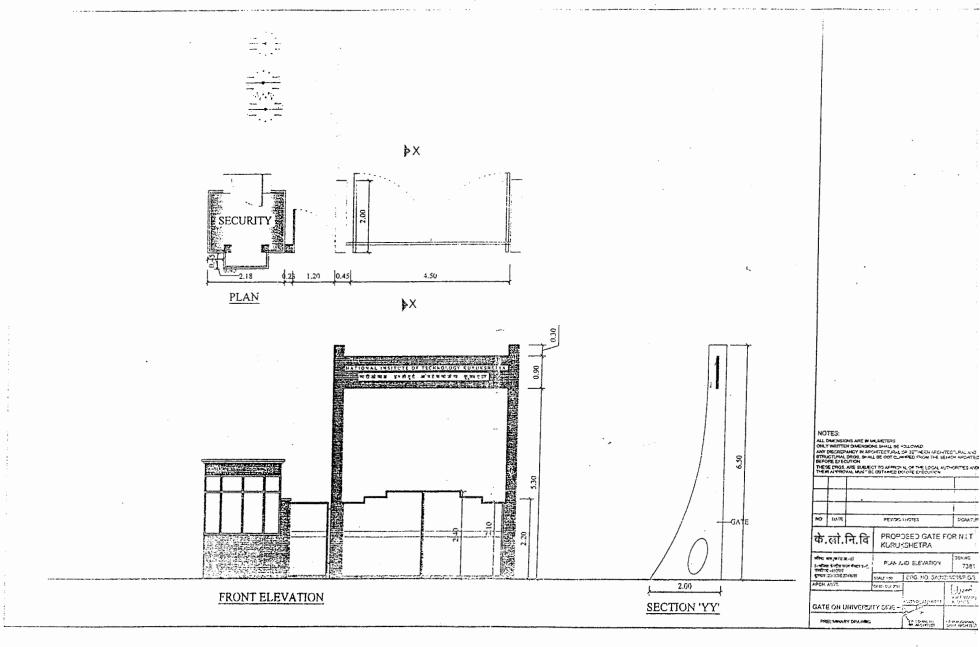
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SPEED POST

NATIONAL INSTITUTE OF TECHNOLOGY (INSTITUTION OF NATIONAL IMPORTANCE) KURUKSHETRA

No/CC/ 1533 | 5788

Dated: 30.09.2011

To

是一个人,是一个人,他们是一个人,他们也是一个一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一

The Executive Engineer (Civil) Karnal Central Division, CPWD, 448 Subash Colony, Karnal.

Subject: - Preliminary estimate for the works to be under taken at NIT, Kurukshetra.

Please refer progress review meeting held on dated 21.09.2011 at New Delhi and in the meeting it was discussed that the works to be executed in future at NIT. Kurukshetra may be processed on priority. You are, therefore, requested to supply the preliminarily estimates of the following works, so that these are got approved from the Building & Works Committee of the Institute; meeting of which is going to be held in 2nd/3nd week in October, 2011; it was also agreed in the meeting that the digital survey map of whole campus NIT, Kurukshetra will be supplied by you. The list of works are as under:

Construction works:

- Convocation Hall of 3000 capacity.
- Gymnasium Hall of built area of 150 sqm.
- Community Centre of built area of 1000 sqm.
- Two Nos. Institute Main Gates along with Parkings and widening of road from Main Gate along Kirmich Raod to Main gate from KUK.
- Additional Floors on existing single storey blocks of Civil Engg., Mechanical Engg.
 AM Block and AB Block by strengthening of these blocks.

Development of Horticulture work and Landscaping:

- Newly constructed Administrative Building at NIT, Kurukshetra.
- Guest House.
- Three main parks of Teaching and Non-teaching colony along with provision of rain water harvesters and jogging tracks
- Lawn of the old Administrative Block.
- Lawn between old Administrative Block & Elect. Engg. Deptt..
- And provision of jogging track in the area near Gas Plant, Old SBI Building and Electrical Engg. Deptt.
- And provision of jogging track in the area between MBA/MCA and 300 Senters New Girls Hostel at NIT, Kurukshetra.

Miscellaneous works:

- Sewerage Treatment Plant (STP) and replacement of existing sewerage lines at NIT. Kurukshetra.
- Replacement of existing water supply CI/AC pipe lines with centrifugally cast (spun) iron pipes class LA/DI pipes in the entire campus.
 - MS Grills over the surrounding boundary wall of the Guest House.
 - Extension of existing Car Parking in the Guest House with CC pavement and cement concrete pavers.

An early action is requested please.

Chairman (E, C & EM)

CC to:

PA to Director for information of Honble Director, NIT, Kurukshetra please.

केन्द्रीय लोक निर्माण विभाग करनाल केंद्रीय वैद्युत गण्डल

TEL & FAX-0184-2254952 E-mail:cpwdknl@hotmail.com

संख्या 20 (38)/क.के.वै.मं/2011-12/

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रोवा में.

अधीक्षण अभियन्ता(वै0), चण्डीगढ केन्द्रीय वैद्युत परिभण्डल—I, के0 लो0 नि0 वि0 केन्द्रीय सदन 3rd तल रौक्टर 9, चण्डीगढ। 3 · 1 · 2 · 201

विषय :- Clo Gate at University side and Kirmitch road side of NIT Kurukshetra. (SII : Providing El & Fans, Fascad lights & CCTV.)

सन्दर्भ :- letter No. 20(142)/यो०शा / क0के0मं / 2011 / 4086 dt. 30 11 2011.

उपरोक्त विषय के सन्दर्भ में उपरोक्त कार्य का मात्र रू० 41,47,500 -- का प्रारंभिक अनुमान आपके कार्यालय को जांच एवं सम्बन्धित अधिकारी से प्रशासनिक स्वीकृति एवं सावी मंजूरी प्राप्त करने हेत् संलग्न है।

संलग्न : उपरोक्त।

इ.स. -कार्यपालक अभियन्ता(नै०), करनाल कंदीय नैश्वत महल केठलोजीनेठविठ, करनाता

प्रतिलिपि :--

- . The Chairman (E&N), NIT, Kurukshetra for information.
- 2. कार्यपालक अभियन्ता, करनाल केन्द्रीय मण्डल, केलोनिवि, करनाल का सुन्ननार्थ ।

कार्यपालक अभिगुता(वैत)

CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana Branch: E&M

Division: Karnal Central Llect, Divn.Karnal Sub-Division: Karnal Central Pleet, Sub-Division

Estimate No.

Name of Work: C/o Gate at University side and Kirmitch road side of NIT Kurukshetra, (S11: Providing El & Fans, Fascad lights & CCTV.)

Head of Account: Deposit Work

This Preliminary Estimate has been framed by Fr. Narender Kaushal, Executive Engineer(Elect.); Karnal Central Elect. Division, CPWD, Karnal for the probable cost of \$ 41,47,500 including 5% contingencies.

REPORT

History:

This Preliminary Estimate amounting to ₹ 41,47,500/- including 5% contingencies has been a framed to cover the probable cost of above mentioned work for obtaining Administrative Approval & Expenditure Sanction from Competent N.J.I. Authorities.

The estimate has been prepared at the request of Director, N.I.1. Kurukshetra yade their letter no. 1533/5785 dated 30.09.2011 & T.F. KCD, CPWD, Karnal letter No. 20(142)/योजशा / कंठकेंवमं / 2011 / 4086 dt. 30/11/2011).

Design & Scope:

The following provisions as per requirements have been kept in the Preliminary

- Provision for Internal E.I. Power wiring & plugs. External Elect. Service (a) Connections, Energy Saving fittings.
- (b) Provision for Electric LT Panel etc.
- Provision for cabling earthing and loop earthing (c)
- Provision for EPBAX system & LAN system (d)
- (e) Provision for CCTV.

Method:

Through Contract

Rates:

Schedule of Rates for Scheduled items and Market Rate for Non-Scheduled items.

Time:

As proposed by Civil Wing

Cost:

Rs. 41,47,500/- including 5% contingencies

L'rectilise + Wincer Karnal Central elect Division

CPWD, Karnal



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PRELIMINARY ESTIMATE

Name of Work: C/o Gate at University side and Kirmitch road side of NIT Kurukshetra. (SH: Providing El & Fans, Fascad lighting & CCTV).

3 S.No.	Description of Item	Qty.		Rate	Unit	Amount	Remarks
	SH-I (BUILDING):		1			The second secon	•
	INTERNAL ELECTRICAL INSTALLATION		r		L.S.	75500	
2	Extra for Power Plug.		•	·	LS.	125000	
. 3	Extra for Talephone Conduits.				L.S	25000	:
4	Extra for flood / Fascad LED lighting (Philips / GE Make)	· · · · · · · · · · · · · · · · · · ·			LS	1950000.00	•
5 . 5	L.T Distribution panel with necessary cable connections				L.S.	350000.00	
် ၁	Extra for special energy efficient lighting fixtures				LS	150000.00	
7.	Extra for computer cabling				L.S	25000.00	
3	Extra for CCTV and earthing				LS	1150C00.C0	
	Cables for feeder piller to main gate LT panel and LT earthing				LS	100000.00	***************
				A A A A A A A A A A A A A A A A A A A	TOTAL	3950000.00	
				Add 5% con		197500.00	
					G. Total	4147500.00	the paper, that make training to find to the paper than the paper.
	•				say	4147500.00	THE RESERVE THE PERSON OF THE PERSON
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A.E. (E)-P KCED/CPWD Executive Engineer (E)

Karnal Central Elect Division

CPWD, Karnal

Item No. 15.8 To consider & approve the Cost Estimate for construction of 2 Nos. Parking at NIT, Kurukshetra.

The Additional Building Committee of the Institute in its meeting held on 30.06.2011 recommended to provide two no. student parkings for the students vehicles near the two Institute main gates. Subsequently Executive Engineer, CPWD submitted a cost estimate for civil works for an amount of Rs. 83.74 lacs.

The B & WC may consider & approve the rough cost estimate for the above cited work for an amount of Rs.83.74 lacs for Civil works.

Director's Unice Received on 25/8 Time ... 0.7.10.0 0 NIT, KURUKSHETRA

N.L.T. K. ... KSHETRA Chi विभाग

निर्माण केन्द्रीय मण्डल करनाल

448, सुभाष कालोनी, करनाल

संख्या- २०(१४२)/यो.शा./क.के.मं/२०११/ रे०५५

दिनांक 24-8-11

सेवा में,

The Director, NIT, Kurukshetra chairman (E.c/2 EM)

विषय :

C/o parking at University gate at NIT, Kurukshetra

संदर्भ :

आपके कार्यालय पत्र संख्या CC/1477/4603 Dt. 16.8.2011.

महोदय,

उपरोक्त कार्य का विस्तृत प्राक्कलन जिसकी लागत रूपये 43,65,6007- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न है।

आपसे अनुरोध है कि उपरोक्त स्वीकृति जल्दी से जल्दी भेजें ताकि अग्रिम कार्यवाही की जा सकें। प्राक्कलन की एक प्रति भी प्रशासनिक स्वीकृति पत्र के साथ संलग्न करें।

भवदीय.

संलग्न : उपरोक्तानुसार

कार्यपालक\ अभियंता करनाल केन्द्रीय मंडल के.लो.नि.वि,करनाल

प्रतिलिपि :-

1. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को सूचनार्थ।

कार्यपालक अभियंता

Estimate forwarding 87

<u>Appendix-50</u> (Reference – Para 3.6.3) LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the client department)

To	
	The Director
	NIT KUN LShoton

Sub: Execution of Deposit works. To Parting at university gate at MIT, Kum pshetou. (Indicate name of work)

(Indicate name of work)

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject to the following:

- 1. Full estimated cost of the work as worked out by CPWD including departmental charges will have to be deposited by the client department before the work is taken up for execution. No interest will be paid by CPWD to the client department for such deposits.
- 2. The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required, take responsibility for demolition/disposal of existing buildings structures.
- 3. CPWD does not bind itself to complete the work within the estimated cost. If additional fund's are required, the same will have to be provided by the client department. Necessary revised estimate will be submitted as and when required.
- 4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement. CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.
- 5. Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.
- 6. After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These Local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.
- The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate tunds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- 8. The client department will help CPWD in a) providing site for labour huts for the contractor's labour free of cost. b) providing free access to contractor's materials and labour to the site of work. C) providing electricity connection for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity board/authority.
- 9. CPWD may at its discretion allow the clients to deposit the funds in installments. In such cases 33 1/3% of the estimated cost should be deposited as advance. Thereafter, expenditure incurred should be reimbursed in full through monthly bills. The initial deposit of 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.
- 10. In cases where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further.

Yours faithfully,

Executive Engineer
Executive Engineer
Kornel Central Division.

CPWD, 448, Subbach Colour

KARNAL-132001 (Hit)

(3)

Central Public Works Department

Name of Work : Construction of Parking at University Gate at NIT Kurukshetra

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This estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 43,65,600/- i/c 5% contingencies.

REPORT

History

This Preliminary estimate amounting to Rs. 43,65,600/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from Client Department vide letter No. CC/1477/4603 Dt16/8/2011.

Design & Scope

Following provision has been made in the estimate:-

1. Parking of area 37.00mtrX44.00mtrs. at university gate.

2.An average earth filling of 0.30mtrs has been taken for raising the floor level of parking

3. A 4.00mtrs vide shed on three sides of the parking has been taken.

4.Cement concrete paver blocks 80mm thick of M-40 grade over lean concrete 1:5:10.

has been taken.

5. Providing and fixing colour coated galvanized steel sheet roofing.

Specification

As per CPWD Specification 2009 vol I to II with upto date correction slip.

WC

Shall be met out of contingencies.

Establishment-

T & P

Shall be arranged by the contractor.

Land

Available.

Rate

As per DSR 2007. & A/R based on Market rates.

Method

By contract after call of tender.

Time

Three Months

Cost

Rs. 43,65,600/- i/c 5% contingencies.

45,51,700/-

1915(P) Of Executive Ingineer Karnal Central Division CPWD, Karnal

Name of	Work:	Construction of Parking at University Gate at NIT Kuru SCHEDULE OF WORK	ıkshetra			
S. No	Item Code	Description of Items	Qty	Rate	Unit	Amount
	2	EARTH WORK		i	•	
.1	2.8	Earth work in excavation by mechanical means				
		(Hydraulic Excavator)/ manual means in foundation		į		
	1	trenches or drains (not exceeding 1.5 m in width or 10		ì		
		sum on plan) including dressing of sides and ramming of	i			
		bottoms, lift upto 1.5 m, including getting out the				
		excavated soil and disposal of surplus excavated soil as	į	1	j	
		directed, within a lead of 50 m.		į	!	
.1.1	2.8.1	All kinds of soil.	32	103.4	cum	3309
.2	2.28	Surface dressing of the ground including removing				
		vegetation and in-equalities not exceeding 15 cm deep	-			
		and disposal of rubbish, lead upto 50 m and lift upto			-	
		1.5 m.		ļ		
1.2.1	2.28.1	All kinds of soil.	1828	512.1	sqm	9361
1.3	2.44	Supplying & filling excavated earth in layers not				
		exceeding 20cm in depth, breaking clods, watering	ļ	;	:	
		rolling each layer with 1/2 tonne roller, or wooden or steel		į		
		rammers, and rolling every 3rd and topmost layer with				
		power roller of minmum 8 tonnes and dressing up, in	Í	1		
		embankments for roads, floor banks, marginal banks		1		
		and guide bank or filling up ground depressions, for all	!	1		
		lead & lifts etc. complete as per direction of Engineer-In-		i		
		Charge.□	1	1	ļ	
		3	550	154.3	curn	84865
2	4	CONCRETE WORK				
2 2.1	4.1	Providing and laying in position cement concrete of				
		specified grade excluding the cost of centring and				
		shuttering - All work upto plinth level :				
2.1.1	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone		i		
		aggregate 20 mm nominal size)	15	3257.45	cum	48862
2.1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone				
		aggregate 40 mm nominal size)	282	2237.75	cum	631046
2.2	4.3	Centring and shuttering including strutting, propping etc.				
	1	and removal of form work for :				
2.2.1	4.3.1	Foundations, footings, bases for columns.	17	119.25	sqm	2027
2.3	4.10	Providing and laying damp-proof course 40mm thick	and the contract of the contract of		- q. ; .	
2.0	10	with cement concrete 1:2:4 (1 cement : 2 coarse sand :		Ì		
		4 graded stone aggregate 12.5mm nominal size).				
	ļ	4 graded otorie aggregate 12.011111 Herrinia 9.29/.	45	144.15	sqm	6487
3	5	REINFORCED CEMENT CONCRETE			7.77	
3.1	5.9	Centring and shuttering including strutting, propping etc.				
0.1	0.0	and removal of form for :				
3.1.1	5.9.14	Extra for shuttering in circular work (20% of respective				
3.1.	0.0.14	centring and shuttering items).	17	20	sqm	340
4	6	BRICK WORK			~ 4111	2 10
4.1	6.1	Brick work with F.P.S. bricks of class designation 75 in		1		
7. 1	0.1	foundation and plinth in:		·		
	640		34	2121.75	cum	72140
4.1.1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	! 34	2121.73	Guill	12140
5	10	STEEL WORK				<u> </u>

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S. No	Item Cod	Description of Items	Qty	Rate	Unit	Amount
5.1	10.16	Steel work in built up tubular trusses including cutting,			0,,,,,	Zinount
		hoisting fixing in position and applying a priming coat of		į		!
	İ	approved steel primer, welded and bolted including		į		
		special shaped washers etc. complete.				•
5.1.1	10.16.1	Hot finished welded type tubes	7500	04 5		1 -
	12		7500	61.5	kg	461250
6 6.1		ROOFING				
0.1	12.11	Extra for providing and fixing wind ties of 40x 6mm flat				1
6.2	10.57	iron section.	472	73.65	metre	34763
0.2	12.57	Providing and fixing colour coated galvanized steel		i		1.
	MP	sheet roofing having maximum pitch of 196 mm c/c &		- 1		
	1	minimum 30mm crest depth in length as per requirement		į	•	
		and fixing with polymer coated J or L hooks, bolts and				
		nuts 8mm dia. G.I. plain and bitumen washers or with				
		self drilling fastener and EPDM washers etc. complete		i		
		excluding the cost of purlins, rafters and trusses:	.	ļ		İ
		corrugated sheets and including cutting to size and				!
İ		shape wherever required. (The fed material is to be		i		
		manufactured out of 0.50mm (TCT) total coated				
	ĺ	thickness with 18-20 microns top coat over 5 microns	1			
	1	primer and 8-10 micron alkyd backer, 550 Mpa yield	ļ			!
		strength with zinc-aluminium alloy of AZ-150. The sheet				
		shall have a hot dip metallic zinc-aluminium alloy coating	, (;			
		of zinc (45%), aluminium (55%) with total mass coating	ı	į		
	İ	of 150gsm/sqm on both sides).		i		,
	140		530	628.68	Sqm	333200
	13	FINISHING				
7.1	13.4	12 mm cement plaster of mix :				
7.1.1	13.4.1	1:4 (1 cement : 4 coarse sand)	60	82.55	sqm	4953
7.2	13.44	Finishing walls with water proofing cement paint of		3		
		required shade :	,			
7.2.1	13.44.1	New work (Two or more coats applied @ 3.84 kg/10				
		sum).	60	30.8	sqm	1848
7.3	13.52	Finishing with Epoxy paint (two or more coats) at all				
		locations prepared and applied as per manufacturer's				!
	1	specifications including appropriate priming coat,				
		preparation of surface, etc. complete.				
7.3.1	13.52.1	On steel work	257	75.25	sqm	19339
8	16	ROAD WORK				
8.1	16.69	Providing and laying at or near ground level factory				
	i .	made kerb stone of M-25 grade cement in position to the				
l		required line, level and curvature jointed with cement				ı
		mortar 1:3 (1 cement : 3 coarse sand) including making				,
		joints with or without grooves (thickness of joints except		i		:
		at sharp curve shall not to more than 5mm) including				
		making drainage opening wherever required complete	l			
		etc. as per direction of Engineer-in-charge (length of				
		finished kerb edging shall be measured for payment).				
		(Precast C.C. kerb stone shall be approved by Engineer-				
		in-charge).	6	4252.7	cum	25516
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S. No	Item Code	Description of Items	Qty	Rate	Unit	Amount
8.2	16.92	Providing and laying 80mm thick factory made cement				
	MP	concrete interlocking paver block of M -40 grade made		1		
	,	by block making machine with strong vibratory				
[compaction and of approved size and design/ shape		j		
		laid in required colour and pattern over and including				
		50mm thick compacted bed of course sand, filling the				1
ľ		joints with fine sand etc. all complete as per the direction	4700	4070 4		1007000
	 	of Engineer-in-charge.	1730	1079.4	sqm	1867362
		TOTAL Add: 25% Cost Index				3606668
	1					351527
		Total			413	6927 = 3958195
		Add: 5% Contingencies			206	344 197910
		Total			43,33,	273.
		Add: 1% Labour Cess				3、~ ₄₁₅₆₁
		Total		L	37660	6. 0
		Add : 4% Vat		ι	75064.	167007
		Grand Total		 4	551670	6 · 0 4197666 167907 - 4365673
		<u> </u>				400001.0.
		いたちょファロ/ー Say Rs 43,65,600.00	i 			1
		Say Rs 43,65, 600.00				
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	1	·	E00)		nai Central	•
		$\mathcal{A}^{\prime\prime}$			CPWD, Ka	irnal

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Director's Office Received on Time 02\05 8. M NIT, KURUKSHETRA B_N.LT. KURUKSHETRA विभाग^{Dy, Mr...} निर्माण केन्द्रीय लोक केन्द्रीय मण्डल करनाल कालोनी, सुभाष करना संख्या- २०(१४२)/यो.शा./क.के.मं/२०११/ 3०५३ सेवा में, The Director, NIT, Kurukshetra C/o Parking at Kirmich gate at NIT, Kurukshetra. विषय : आपके कार्यालय पत्र संख्या CC/1477/4603 Dt. 16.8.2011. संदर्भ : महोदय. उपरोक्त कार्य का विस्तृत प्राक्कलन जिसकी लागत रूपये आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न है। आपसे अनुरोध है कि उपरोक्त स्वीकृति जल्दी से जल्दी भेजें ताकि अग्रिम कार्यवाही की जा सकें। प्राक्कलन की एक प्रति भी प्रशासनिक स्वीकृति पत्र के साथ संलग्न करें। भवदीय. संलग्न : उपरोक्तानुसार करनाल केन्द्रीय मंडल • के.लो.नि.वि,करनाल

प्रतिलिपि :-

1. सहायक अभियंता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि, कुरुक्षेत्र को सूचनार्थ।

कार्यपालक अभियंता

(Reference - Para 3.6.3)

LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the client department)

The Director
MIT MUMBERLE

to the following:

Sub: Execution of Deposit works. To Pashing at Hismich. Sate at MIT, Kuzu bshaton. (Indicate name of work)

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject

- 1. Full estimated cost of the work as worked out by CPWD including departmental charges will have to be deposited by the client department before the work is taken up for execution. No interest will be paid by CPWD to the client department for such deposits.
- 2. The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required, take responsibility for demolition/disposal of existing buildings/structures.
- CPWD does not bind itself to complete the work within the estimated cost. If additional fund's are required, the same will have to be provided by the client department. Necessary revised estimate will be submitted as and when required.
- 4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement. CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.
- 5. Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.
- 6. After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These Local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.
- 7. The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- 8. The client department will help CPWD in a) providing site for labour huts for the contractor's labour free of cost. b) providing free access to contractor's materials and labour to the site of work. C) providing electricity connection for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity board/authority.
- OPWD may at its discretion allow the clients to deposit the funds in installments. In such cases 33 1/3% of the estimated cost should be deposited as advance. Thereafter, expenditure incurred should be reimbursed in full through monthly bills. The initial deposit of 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.
- 10. In cases where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further.

Yours faithfully,

Executive Engineer
Executive Engineer
Karnal Central Division.
CPWD, 443, Subhash Colony
KARNAL-132001 (Hry)

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Central Public Works Department

Name of Work

: Construction of Parking at Kirmich gate at NIT Kurukshetra

Major Head	Minor Head	Detailed Head	

This estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 36,56,000/- i/c 5% contingencies.

REPORT

History

This Preliminary estimate amounting to Rs. 36,66,000/- i/c 5% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from Client Department vide letter No. CC/1477/4603 Dt16/8/2011.

Design & Scope

Following provision has been made in the estimate:-

1. Parking of area 35.00mtrX38.00mtrs. at Kirmich road gate.

2.An average earth filling of 0.30mtrs has been taken for raising the floor level of parking

3. A 4.00mtrs yide shed on three sides of the parking has been taken.

4.Cement concrete paver blocks 80mm thick of M-40 grade over lean concrete 1:5:10.

has been taken.

5. Providing and fixing colour coated galvanized steel sheet roofing

Specification

As per CPWD Specification 2009 vol I to II with upto date correction slip.

WC

Shall be met out of contingencies.

Establishment

T & P

Shall be arranged by the contractor.

Land

Available.

Rate

As per DSR 2007.

Method

By contract after call of tender.

Time

three Months

28,22,200/-

Cost

Rs. 36,66,000/- i/c 5% contingencies.

Executive Engineer Karnal Central Division CPWD, Karnal

AF(P)

Name of	Work :	Construction of Parking at Kirmich gate at NIT Kuruks SCHEDULE OF WORK	shetra			
S. No	Item Cod	d∢Description of Items	Qty	Rate	Unit	Amount
	2	EARTH WORK				
1.1	2.8	Earth work in excavation by mechanical means		, 1		
		(Hydraulic Excavator)/ manual means in foundation				
		trenches or drains (not exceeding 1.5 m in width or 10				
	:	sum on plan) including dressing of sides and ramming of	1		٠.	
	!	bottoms, lift upto 1.5 m, including getting out the	ļ	!		
		excavated soil and disposal of surplus excavated soil as	!			
		directed, within a lead of 50 m.		أبييا		
1.1.1	2.8.1	All kinds of soil.	30	103.4	cum	3102
1.2	2.28	Surface dressing of the ground including removing	1			
		vegetation and in-equalities not exceeding 15 cm deep		i		
		and disposal of rubbish, lead upto 50 m and lift upto		į		
		1.5 m.			1	
1.2.1	2.28.1	All kinds of soil.	1430	512.1	sqm	7323
1.3	2.44	Supplying & filling excavated earth in layers not			,	
		exceeding 20cm in depth, breaking clods, watering				
		rolling each layer with 1/2 tonne roller, or wooden or steel	ļ	1	:	
		rammers, and rolling every 3rd and topmost layer with	ļ	1		
		power roller of minmum 8 tonnes and dressing up, in		İ	:	
		embankments for roads, floor banks, marginal banks		ļ		
		and guide bank or filling up ground depressions, for all		i		
		lead & lifts etc, complete as per direction of Engineer-In-		ļ		
		Charge.⊡				
			430	154.3	cum	66349
2	4	CONCRETE WORK	1			
2.1	4.1	Providing and laying in position cement concrete of		i		
		specified grade excluding the cost of centring and		!		
		shuttering - All work upto plinth level :				
2.1.1	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone			:	
		aggregate 20 mm nominal size)	8	3257.45	cum	26060
2.1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone		!		
		aggregate 40 mm nominal size)	222	2237.75	cum	496781
2.2	4.3	Centring and shuttering including strutting, propping etc.		į		
		and removal of form work for :				
2.2.1	4.3.1	Foundations, footings, bases for columns.	15	119.25	sqm	1789
2.3	4.10	Providing and laying damp-proof course 40mm thick		ĺ		
		with cement concrete 1:2:4 (1 cement : 2 coarse sand :	ļ <u> </u>			
		4 graded stone aggregate 12.5mm nominal size).		ļ	į	
		·	43	144.15	sqm	6198
3	5	REINFORCED CEMENT CONCRETE		. !		
3.1	5.9	Centring and shuttering including strutting, propping etc.		İ		
		and removal of form for :		:		
3.1.1	5.9.14	Extra for shuttering in circular work (20% of respective				
		centring and shuttering items).	15	20	sqm	300
4	6	BRICK WORK		!		•
4.1	6.1	Brick work with F.P.S. bricks of class designation 75 in				
		foundation and plinth in:				
4,1,1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	33	2121.75	cum	70018

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S. No	Item Cod	Description of Items	Qty	Rate	Unit	Amount
5.1	10.16	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.				
5.1.1	10.16.1	Hot finished welded type tubes	6840	61.5	kg	420660
6	12	ROOFING	00.10	01.0	, <u>"</u> 9	420000
6.1	12.11	Extra for providing and fixing wind ties of 40x 6mm flat iron section.	432	73.65	metre	31817
6.2	12.57 M·R	Providing and fixing colour coated galvanized steel sheet roofing having maximum pitch of 196 mm c/c & minimum 30mm crest depth in length as per requirement and fixing with polymer coated J or L hooks, bolts and nuts 8mm dia. G.l. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses: corrugated sheets and including cutting to size and shape wherever required. (The fed material is to be manufactured out of 0.50mm (TCT) total coated thickness with 18-20 microns top coat over 5 microns primer and 8-10 micron alkyd backer, 550 Mpa yield strength with zinc-aluminium alloy of AZ-150. The sheet shall have a hot dip metallic zinc-aluminium alloy coating of zinc (45%), aluminium (55%) with total mass coating				
		of 150gsm/sqm on both sides).	486	628.68	Sqm	305538
7	13	FINISHING				
7.1	13.4	12 mm cement plaster of mix :				
7.1.1	13.4.1	1:4 (1 cement : 4 coarse sand)	56	82.55	sqm	4623
7.2	13.44	Finishing walls with water proofing cement paint of required shade:				
7.2.1	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sum).	56	30.8	sqm	1725
7.3	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.	İ			
7.3.1	13.52.1	On steel work	234	75.25	sqm	17609
8	16	ROAD WORK				
8.1	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of				
		finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-	}	:		

. No	Item Cod	Description of Items	Qty	Rate	Unit	Amoun
2	16.92	Providing and laying 80mm thick factory made cement				
	11.P	concrete interlocking paver block of M -40 grade made	1			
		by block making machine with strong vibratory	İ			
		compaction and of approved size and design/ shape	1	i		+
		laid in required colour and pattern over and including	İ			!
		50mm thick compacted bed of course sand, filling the				
		joints with fine sand etc. all complete as per the direction	• [:
	Ì	of Engineer-in-charge.	1430	1079.4	cam	1540540
		- pro	1430	10/5.4	sqm	1543542
		TOTAL 37	· · · · · · · · · · · · · · · · · · ·			3028950
	!	Add: 25% Cost Index except m. R.				: 436552
		Total				294960
		Total	1		3	465502
		Add : E0/ Continuousias				332391
		Add: 5% Contingencies	1		.1 -7	3275. w
		Talal				166190
	ĺ	Total			. 36	38777.4
		Add : 1% Labour Cess				349011
		Add: 1% Labour Cess	1		36	388.00
		Total				3490
	ŀ	Total	1		3675	165: 0
		Add : 4% Vat		********		352501
		Add . 4% Val	i		14700	
		Grand Total				14100
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Item No. 15.9 To consider & approve the Rough Cost Estimate for Sewage Treatment Plant (STP) at NIT, Kurukshetra.

The Existing system of Sewage Treatment is inadequate to cope with the load of the campus area of NIT, Kurukshetra. The system is about 30 to 35 years old and outdated & requires to be modernized with provision of Sewage Treatment Plant (STP).

The Additional Buildings Committee in its meeting held on 30.06.2011 recommended to provide a STP of approximate 10 MLD capacity for NIT, Kurukshetra. The proposed STP will be located near existing oxidation ponds.

CPWD was requested to provide design calculations & cost estimate for (STP) having design capacity of 10,000 users. Executive Engineer, CPWD, Karnal, has submitted a preliminary estimate amounting to Rs. 318.08 Lacs.

The B & WC may consider and approve the rough cost estimate for the Construction of Sewage Treatment Plant (STP) of 10 MLD capacity with an estimated cost of Rs. 318.08 Lacs.

केन्द्रीय लोक निर्माण विभाग करनाल केन्द्रीय मण्डल 448, सुभाष कालोनी, करनाल

संख्या- २०(१४२)/यो.शा./क.के.मं/२०११/ २१५७७

दिनांक 23-11-2011.

रोवा में.

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अधीक्षण अभियंता, चण्डीगढ केन्द्रीय परिमण्डल, के.लो.नि.वि, चण्डीगढ।

विषय :

Design, Supplying, Installation, Testing and Commissioning of 1MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis based on sequencing batch reactor (SBR) technology at NIT, Kurukshetra.

संदर्भ :

The Chairman (E. C & EM), NIT, Kurukshetra letter's No. CC/1533/5788 dt 30.9.2011.

उपरोक्त कार्य का प्रारम्भिक प्राक्कलन जिसकी लागत रूपये 3,18,08,300/- है आपके कार्यालय को सम्बन्धित विभाग से प्रशासनिक स्वीकृति एवं मंजूरी प्राप्त करने हेतु संलग्न है।

संलग्नः प्राक्कलन दो प्रतियों में।

कार्यपालक अभियन्ता करनाल केन्द्रीय मण्डल, के लो नि वि, करनाल।

प्रतिलिपिः

1. The Chairman (E, C & EM), NIT, Kurukshetra for information please.

2. कार्यपालक अभियंता (वै.), करनाल केन्द्रीय विद्युत मण्डल, के.लो.नि.वि. करनाल को कार्य के अनुमान सहित सूचनार्थ।

🗸 अ. सहायक अभियन्ता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि. कुरुक्षेत्र को सूचनार्थ।

कार्यपालक अभियन्ता

Appendix-50

(Reference - Para 3.6.3)

LETTER OF ACCEPTANCE OF DEPOSIT WORKS (To be issued to the client department)

То	The Director
	NIT Kurukshefra

Sub: Execution of Deposit works.

yo Sewerage Treatment Plant of (Indicate name of work)

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject to the following:

- Full estimated cost of the work as worked out by CPWD including departmental charges will have to be deposited by the client department before the work is taken up for execution. No interest will be paid by CPWD to the client department for such deposits.
- 2. The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required, take responsibility for demolition/disposal of existing buildings/structures.
- CPWD does not bind itself to complete the work within the estimated cost. If additional fund's are required,
 the same will have to be provided by the client department. Necessary revised estimate will be submitted as
 and when required.
- 4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement. CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.
- 5. Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.
- 6. After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These Local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.
- 7. The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work including claims of contractors for compensation/damages.
- 8. The client department will help CPWD in a) providing site for labour huts for the contractor's labour free of cost. b) providing free access to contractor's materials and labour to the site of work. C) providing electricity connection for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity board/authority.
- 9. CPWD may at its discretion allow the clients to deposit the funds in installments. In such cases 33 1/3% of the estimated cost should be deposited as advance. Thereafter, expenditure incurred should be reimbursed in full through monthly bills. The initial deposit of 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.
- 10. In cases where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further.

Yours faithfully,

Executive Engineer
Executive Engineer
Karnal Central Division,
CPWD, 449, Subbach Colony

KARNAL-132001 (Hry)

-67 - () AZ(P)

Central Public Works Department

Name of Work

: Design, Supplying, Installation, Testing and Commissioning of 1MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis based on sequencing batch reactor (SBR) technology at NIT, Kurukshetra.

Major Head	Minor Head	Detailed Head
·	-	

This preliminary estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 3,18,08,300/- i/c 3% contingencies.

REPORT

History

This preliminary estimate amounting to Rs. 3,18,08,300/- i/c 3% contingencies has been framed to cover up the probable cost of above mentioned work for accord of A/A & E/S of the competent authority. The requisition for the above said work has been received from Client Department vide letter No. CC/1533/5785 dt.30.09.2011.

Design & Scope

Following provision has been made in the estimate:-

This estimate provides for design, supply, Installation, testing and commissioning of 1.00 MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology.

At present there are 6000 users in NIT, Kurukshetra campus, Taking into account for future expension, the design capacity for 10,000 users has been considered.

For calculating the capacity of STP the average capacity per head/day is 0.084cum to 0.112cum considering average of minimum & maximum value i.e. 0.098 cum per user or 98 litre per user has been considered. Thus total required capacity = 10,000 users x 98 litre per user = 980000 litre or 0.98 MLD say = 1.00 MLD.

The sewage water after treatment through Sewage Treatment Plant can be reused for horticulture, cleaning purpose etc. The unfiltered (Treated water) lines shall be considered in the estimate of water supply line of the campus which is under preparation.

The sewage of the NIT campus at present is accumulated in the oxidation pond where the site of proposed STP is considered. The provision for improvement/modification of the existing sewerline of the campus is not considered in the estimate, which shall be separtely delt with after surveying the condition of sewerline in consultation with the client deptt & maintenance staff.

Specification

As per CPWD Specification 2009 vol I to II with upto date correction slip.

WC

Shall be met out of contingencies.

Establishment

T & P

Shall be arranged by the contractor.

Land

Available.

Rate

A/R based on Notice Inviting Tender of MCD (Photocopy attached).

Method

By contract after call of tender.

Time

a) Pre-construction activities = 6 months b) For Execution of work = 10 month

= 10 months

16 months

Cost

Rs. 3,18,08,300/- i/c 3% contingencies.

Executive Engineer
Karnal Central Division
CPWD, Karnal

2000	ABSTRACT OI				
Name of Work:-	Design, Supplying, Installation, Testing and C Treatment Plant based on MBBR (Moving Be and maintenance for 60 months after success months on turnkey basis based on sequencing Kurukshetra.	d Blo-Read sful compl	ctor) technolog letion of defect	y includi liability p	ing operation eriod of 12
S.No.	Description of Item	Quantity	Rate	Unit	Amount
:	Design, Supplying, Installation, Testing and Commissioning of 1MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis at NIT,				
	Kurukshetra.	1 No.	2,94,00,000	each	29400000.00
	Total		(A/R attached)		29400000.00
	Add: 3% Contingencies		1	The statement was to make a transport	882000.00
	Total				30282000.00
 -	Add : 1% Labour Cess	and the second second		ties compare a	302820.00
	Total				30584820.00
	Add: 4% Vat				1223393.00
:	Grand Total				31808213.00
-	Say Rs. 3,18,08,300/-				
				A.	-
				cutive Eng	
				al Central I	
		<u> </u>		PWD, Kar	naı

4.0

ANALYSIS OF RATES

Design, Supplying, Installation, Testing and Commissioning of 1MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis based on sequencing batch reactor (SBR) technology at NIT, Kurukshetra.

As per NIT floated by MCD (copy enclosed) vide NIT No. EE(M-II)/CLZ/TC/2011-12/67 Dt. 11.11.2011, earnest money is Rs. 5,75,000/- & the condition of similar work is one work of ₹ 235 lacs (which is 80% of estimated cost) or two works of ₹ 176 lacs (which is 60% of the estimated cost) or three works of ₹ 117 lacs (which is 40% of the estimated cost).

Thus the estimated cost

Say = ₹294 lacs for 1.00 MLD

Jumpin Je

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MUNICIPAL CORPORATION OF DELH! OFFICE OF THE EXECUTIVE ENGINEER (M)-IVCLZ

7th Floor, 16 Rajpur Road, Civil Lines DELHI-110054

PHONE-011-23911708

NIT No.EE (M-II) CLZ/TC/2011-12/67

Dated: 11.11.2011

INVITATION FOR BIDS

The Executive Engineer (M-II) Civil Line Zone on behalf of Municipal Corporation of Delhi invites the bids on Lump Sum rates basis from the eligible firms / contractors of repute in 'Double cover system' in sealed cover up to 15.30 PM on 09.12.2011 for the under mentioned work. Being specialized job any firm or contractor who is not registered in Municipal Corporation of Delhi but having experience in this field will also be eligible for tendering:

Name of Work:- Design, Supplying, Installation, Testing and Commissioning of 1MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis based on sequencing batch reactor (SBR) technology at Hindu Rao Hospital, Delhi.

Estimated Cost

: Item Rate

Earnest Money

: `5,75,000/-(Rupees Five lacs and Seventy Five thousand only)

Time of completion

: 10 months

Contractor/firms, who full fill the following requirements, shall be eligible to apply (Joint Ventures are not accepted):

The contractor should possess the experience of having successfully completed in his own name similar works during the last 7 years (ending last day of the month previous to the one in which tenders are invited) which should be of the following:-

- 1. The firm must have executed at least one work of similar nature costing not less than 235 lacs or two works of 176 lacs or three works of 117 lacs.
- Apart from above the specialized firm should produce the proof having satisfactory completed ETP/STP costing not less than 117 lacs in Govt. depts./ PSUs / Listed public Companies in last 7 years ending last day of month previous to the one in which applications are invited.
- The firm should have the experience of operation & maintenance of ETP / STP at his credit.

Notes <u>Similar works means construction and operation of sewage treatment plan, Effluent Treatment plant/ CETP for Govt. deptts / PSUs. Experience certificates from the Privates parties will not be considered</u>

Tender documents can be had from this office between office hours on all working days upto 28.11.2011 on payment of Rs. 5,000 (Rupees Five Thousand only) non-refundable, in the form of Demand draft/Pay order in favor of Commissioner, Municipal Corporation of Delhi. The document is also available on the internet and can be downloaded from the following website: http://mcdetenders.com If the document is downloaded from the above website the demand draft for the amount payable towards cost of document should be enclosed along with the submission of the tender. The demand draft should be drawn in favour of Commissioner, MCD from any schedule bank payable at Delhi. After downloading the document, intimation to this effect together with details of address for communication, telephone number and fax number should be sent to Ex. Engineer (M-II) CL7 at the above address, telephone No. 011-23911708 email ID: ee_miiclz@yahoo.co.in.

If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of work in MCD. The department reserves the right to verify the particulars furnished by the applicant independently. Conditional Tender are liable to be rejected.

MUNICIPAL CORPORATION OF DELHI

OFFICE OF THE EXECUTIVE ENGINEER (M)-II/CLZ 7th Floor, 16 Rajpur Road, Civil Lines Delhi-110054 PHONE-011-23911708

No.

Dated

NOTICE INVITING TENDERS

The Ex. Engineer M-II/CLZ Division, MCD invites on behalf of Commissioner. MCD, sealed Lump Sum tenders on two envelope system for the following work: -

NIT No. EE-M-II/CLZ/TC/2011-12/67 dated 11.11.2011 Name of Work:- Design. Supplying, Installation, Testing and Commissioning of 1MLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor)technology including operation and maintenance for 60 months after successful batch reactor (SBR) technology at Hindu Rao Hospital, Delhi.

Earnest Money Rs. 5.75 Lacs Time of completion 10 Months.

The tender forms and other details can be obtained from the O/o EE/M-II/CLZ, MCD located at 7th floor, Zonal Office Building Rajpura Road, Civil Lines New Delhi on payment of Rs. 5000/-. The last date of receipt of application to purchase tender form will be 28.11.2011 up to 15.30 PM.

Tender documents can be had from this office between office hours on all working days upto 28.11.2011 on payment of Rs 5,000 (Rupees Five Thousand only) non-refundable, in the form of Demand draft/Pay order in favor of Commissioner, Municipal Corporation of Delhi. The document is also available on the internet and can be downloaded from the following website: http://mcdetenders.com If the document is downloaded from the above website the demand draft for the amount payable towards cost of document should be enclosed along with the submission of the tender. The demand draft should be drawn in favour of Commissioner, MCD from any schedule bank payable at Delhi.

To be published in leading newspaper at all India level.

Ex. Engineer (M-II)/CLZ

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MUNICIPAL CORPORATION OF DELHI

Lumpsum Rate Tender

(A) Tender for the work of:- Planning, Designing and Construction 1 MLD ETP on Moving Bed Bio- Reactor (MBBR) Technology, at Hindu Rao Hospital, Delhi.

(i) To be submitted by 15.00 hours on 2011
ii) To be opened in presence of tenderer who may be present at 15.30 hours on 2011 in the office of Supdt. Engineer Civil Lines zone.
Issued to:
(contractor)
Signature of officer issuing the documents
Designation
Date of Issue:

TENDER

I/We have read and examined the notice inviting tender, schedules. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Municipal Commissioner within the time specified in Schedule 'F', viz, schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and in accordance with such conditions so far as applicable.

We agree to keep the tender open for One Hundred Fifty (150) days from the date of opening of financial bid thereof and not to make any modifications in its terms and conditions A sum of Rs. 5.75 lacs has been deposited in the form of demand draft from a scheduled bank as earnest money. If I/ we, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said MCD Commissioner or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence work as specified, I/we agree that Municipal Commissioner or his successors in office shall without prejudice to any other

right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/ we fail to commence work as specified, I/we agree that Municipal Commissioner or his successors in office shall without prejudice to any other right or remedy available in law.

EE(M-II) CLZ

Construction of Effluent Treatment Plant at HRH, Deih

MUNICIPAL CORPORATION OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER (M II) CLZ
7TH FLOOR ZONAL OFFICE BUILDING,
CIVIL LINES, DLEHI-110 006

NOTICE INVITING TENDER

Sealed super scribed Lump Sum tender is invited by the Executive Engineer (M II) CL Zone in two Bid system on prescribed forms from specialised firms/companies having requisite experience and financial capacity for execution of the following work:-

S. No.	Name of Work	Earnest Money (in Lacs)	(Rs.	Completion Period
1	Design, Supplying, Installation, Testing and Commissioning of IMLD capacity Effluent Treatment Plant based on MBBR (Moving Bed Bio-Reactor) technology including operation and maintenance for 60 months after successful completion of defect liability period of 12 months on turnkey basis at Hindu Rao Hospital, Delhi.	5.75		10 Months

I. Tenderer who fulfills the following requirements shall be eligible to apply. Joint ventures are not accepted.

The contractor should possess the experience of having successfully completed in his own name similar works during the last 7 years (ending last day of the month previous to the one in which tenders are invited) which should be of the following:-

- The firm must have executed at least one work of similar nature costing not less than 235 lacs or two works of 176 lacs or three works of 117 lacs.
- Apart from above the specialized firm should produce the proof having satisfactory completed ETP/STP costing not less than 117 lacs in Govt. depts./ PSUs / Listed public Companies in last 7 years ending last day of month previous to the one in which applications are invited.
- 3. The firm should have the experience of operation & maintenance of ETP / STP at his credit.

. - 2 -

EE(M-II) CLZ

19.20 19.10 19.10 19.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10.10 10

Name of Work:- Design, Supplying Installation Testing and commissioning of 1mld capacity Effluent Treatment Plant based on MBBR technology including operation and maintenance for 60 months after successful completion of defect liability period of 1 months.

BILL OF QUANTITY

	BILL OF QU		
S.NO	Description	Unit	Qty.
Α	Civil Work		
1	Screen chamber Size:- 0.900mx2.5mx1.5m) and inlet chamber size 4mx4mx2m with (FB O.6m /as per site condition) with over flow provision MOC:-RCC M25 (Mix Design)	M³	43
2	Grit Chamber Size:- 4.0mx2.0mx1.5m (FB 0.6m / as per site condition) MOC :- RCC M25 (Mix Design)	M ³	12
3.	Oil & Grease Tank Size:- 8 3mx4 0mx1 5m (FB 0.6m / as per site condition) MOC:- RCC M25 (Mix Design)	M ³	49.8
4	Liqualisation Cum Collection Tank Minimum Capacity:- 357CUM Size:- as per approved design FB as per site Design MOC:-RCC M25 (Mix Design)	Ma	357
5	MBBR /FAB Tank Minimum Capacity:- 300 CUM Size:- as per approved design FB as per approved Design MOC:-RCC M25 (Mix Design)	M ³	300
6	TUBE SETTLING TANK Size-6.0X 7.0X3.6 m Size:- as per approved design FB as per approved Design MOC:- RCC M25 (Mix Design)	M ³	152
7	Chlorine Contact/ Treated Effluent Holding Tank Minimum Capacity:- 150m3 Size:- as per approved design FB as per approved Design MOC:- RCC M25 (Mix Design)	M ³	150

Construction of Effluent Treatment Pant at HRH, Delhi

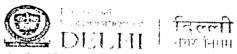
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8	Sludge holding tank capacity of 120 m ³ MOC RCC M-25 (Mix Design)	M ³	120
9	MCC Room with famed structure of 9mx4.5mx4m with laboratory on one side.	M²	40.5
10	Final treated effluent chamber having storage capacity of 300 m ³	M ³	300
11	Other Civil Work	l.s	l.s
	Stairs, Platforms, Footpath, Providing Polycarbonate Panels around ETP & Development of Site etc.		
-	(In Words)		



等

В	ELECTRICAL AND MECH	HANICAL	INSTALLATION
1	Providing and Laying 185 mm² PVC Armoured 1.1 Kv 3.5 core cable from sub-station OPD Including loop at both ends	meter	410
2	Raw effluent sewage submersible pumps 50 m³/hr at 20 m head MOC Body CI, Impellor &shaft SS	Nos.	3
3	Medium Bar Screen made out of SS fabrication with 2 nos. cleaning rakes	No	1
4	Elecromagnatic Flow Meter	No	1
5	Twin Lobe Blower along with Motor , Type of motor:- Twin Rotary Blower flow-800 m3/hr Static Head:- 7000 mmwg Power Supply:- 440 V, 50Hz (2 working + 1 stand by)	Nos	3 .
6	Filter Feed Pump Type:- Self Priming, Non Clog Discharge:- 80 Cum/Hr Head:- 45 Mtr Partical Handling:- 08mm (min) RPM:- As per Manufacturer Specification MOC Body &Base CI, Shaft & Impellor SS	Nos.	2
	Power Supply:- 440 V, 50Hz		
7	Sludge Pump (Screw Pumps) Type:- Self Priming, Non Clog (SP Series) Discharge:-20 Cum/Hr Head:- 20 Mtr Partical Handling:- 40 mm (min) RPM:- As per Manufacturer Specification MOC:-Cl Power Supply:- 440 V, 50Hz	Nos	2



Construction of Effluent Treatment Pant at HRH, Delhi

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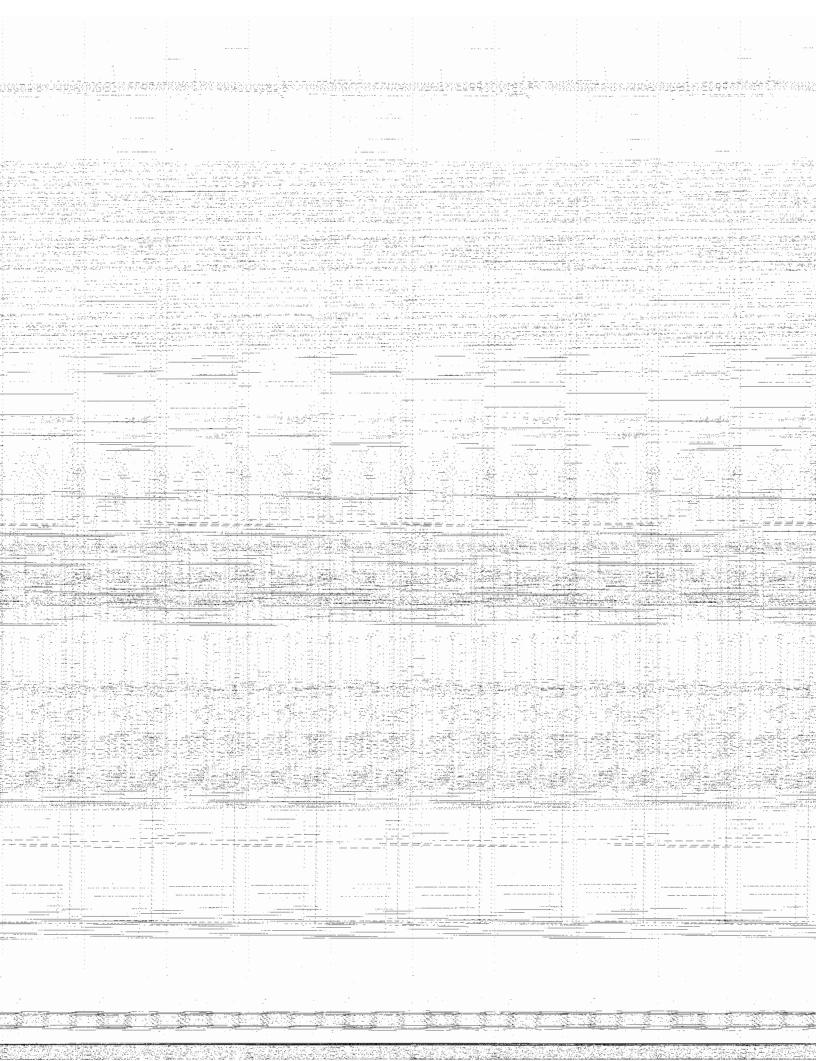
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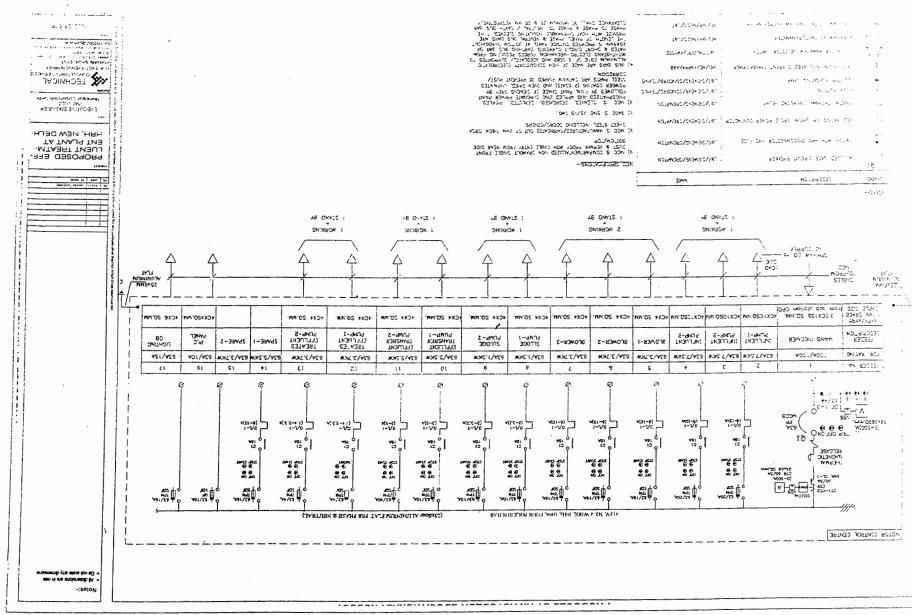
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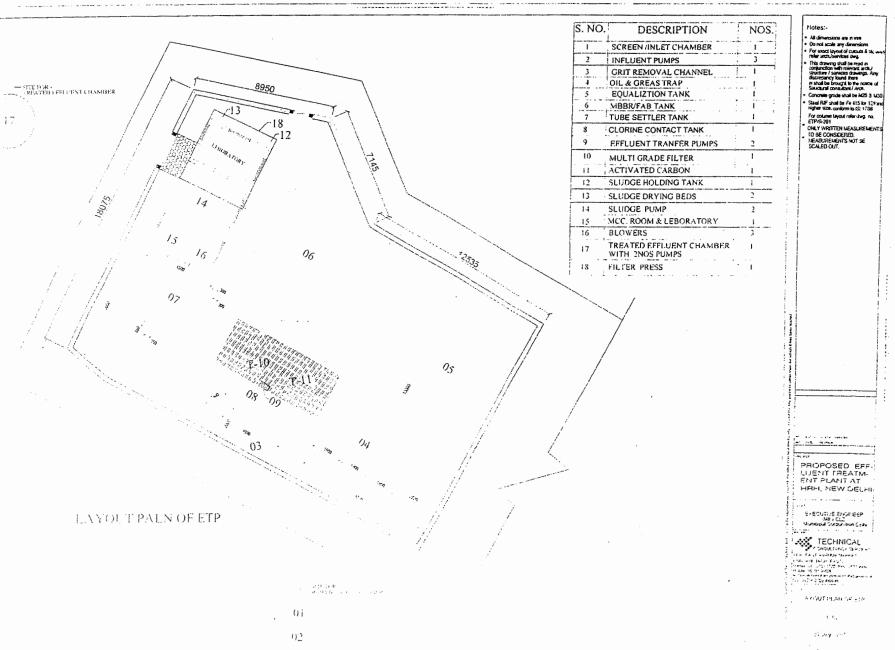
(A)

16	Tube duck media Make- pp aqua,mm aqua	МЗ	44
	Size-1000mmX600mm Capacity – 44 m3		
17	Bio pac media/MBBR/FAB Media	МЗ	134
	Size-22mmX22mm No of pieces-70,000		
18	Pipe & pipe fittings (G.I / CPVC)	lot	1
19	Supplying Installation, Testing And Commissioning Of Effluent Treatment Plant	job	1
20	Laboratory Equipments	ls	Is
21	Miscellaneous Items		
	a) Fire Extinquisher 2 Nos.	ls	Is
	b)Fire Buckets. 3 Nos.		
	c) Safty Chart. 2 Nos.		
	d.) first Aid kit. 1 No. e) Wheel Barrows. 4 Nos.		
	Total of B:-		
	(In Words)		
	•		
	·		

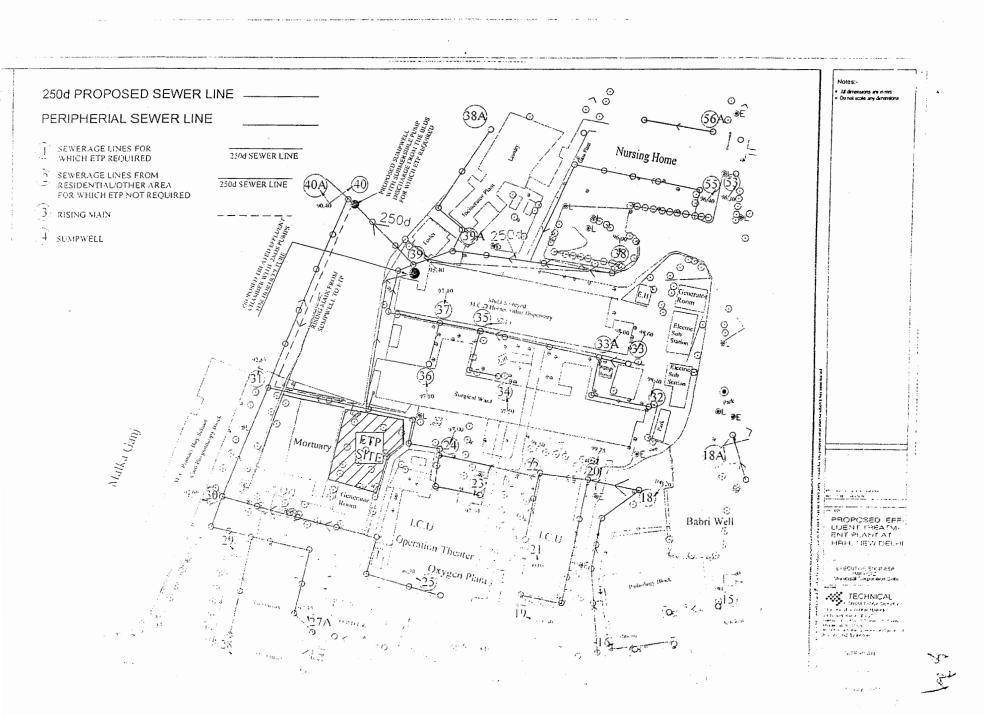
С	OPERATION AND MAINTENANCE
1	Operation and maintenance for
	a) defect liability period of one year with out spares.
, *	b) for five years with cost of spares and chemicals to be used and 5% cumulative effect
	for first year for second year
	for third year
	for fourth year
	for fifth year
	Total
	GRAND TOTAL (A+B+C)
	(In Words)







STATES A STATE OF THE STATES



19 to 18

Item No.15.10

To consider & approve the Rough Cost Estimate for Cold Water Tanks & Supply Pipe line to the Solar Water Heating System Installed in the Hostel No. 1 to 9 (Boys Hostel, Girls Hostel No. 1 & 2) at NIT, Kurukshetra.

The supply order for 198 Nos. Solar Water heating Systems was placed vide P.O. No. SEM-09/9365 dated 20.11.2009. This P.O. was issued with reference to rate contract No. SWHS/IT-2/RC-D3060000/0310/82/03609/0631 dated 24.04.2009. The provision of Installation of Cold Water Tanks & Supply Pipe line to the Solar Water Heating System Installed in the Hostel No. 1 to 9 (Boys Hostel, Girls Hostel No. 1 & 2 at NIT, Kurukshetra is to be made by the Institute (consignee) as per the terms & conditions of above contract. The rough cost estimate worked out on the basis of line diagram as provided is for an amount of Rs. 60.64 lacs approximately.

The B & WC may consider & approve the Rough Cost Estimate amounting to Rs. 60.64 lacs

Wate Contract

Government of India Directorate Gameral of Supplies & Disposals Hospian Tara Building, 5 Sansad Marg

New Delhi-110001 Tel Number 23360610/23360537

Rate Contract no.

Date

SWHS/IT-2/RC-D3060000/0310/82/03609/0631

To,

EMMVEE SOLAR SYSTEM PVT. LTD No.55, SOLAR TOWER, 6th Main, 11th Cross, Lakshmaiah Block, Ganganagar Bangalore

Sub: Rate Contract for supply of Solar Water Heating System valid from 24-APR-09 To 31-MAR-10

Ref:(1) This Office Tender Enquiry no SWHS/IT-2/RC-D3060000/0310/82

(2) Your Quotation No ESSPL/DGS&D/1/2009-10 And Dated

Dear sir,

You are hereby informed that your above referred tender read with subsequent letters mentioned above for the Stores specified in the Schedules annexed has been accepted. This rate contract will be governed by the terms and conditions brought in the Form no. DGS&D 1001 available from dgs&d sales counter on payment of Rs: 50/- The Rate Contract and the schedules Transaction. SCHEDULES ANNEXED

- 1. Schedule "A" Description of stores, prices, duties/taxes.
- 2. Schedule "B" special conditions of contract / Other information
- 3. Schedule "C" Information to DDOs about parallel rate contracts.

Yours Faithfully,

(SURENDRA SINGH) Assistant Director(3)/Section Officer/Dy Director For and on behalf of the purchaser named in the Form DGSaD 1001.

Page 1

Download Date: 01-MAY-09



[: 1. The Chief Controller of Accounts, Department of commerce, New Delhi.]

Mumbai/COA Kolkata, COA Chennai.
This issues with the approval of competent authority.

- പ്ര2.Deputy Director General of Supplies & Disposals, Chenna: -10 copies each
- 3.Deputy Director General of Supplies & Disposals, Kolkata -10 copies each 4 Deputy Director General of Supplies & Disposals, Mumbai -10 copies each
- 5.Deputy Director General (QA), Kolkata -10 copies each
 - 6.Deputy Director General (QA), Chennai -10 copies each
 - 7. Deputy Director General (QA), Mumbai -10 copies each
 - 8.Deputy Director General (QA),DGS&D -10 copies each 9.Inspection Authority ADG(QA) DGS&D New Delhi 110001.
 - 10.Quality assurance Officer Director (QA) Delhi Directorate/ Mumbai, Chennai/Kolkata.
 - 11.Concurrent Audit
 - 12 MIS Cell

高度基金的學者 医食物医食物 医生物性 医

- 13.Ledger clerk
- 14.0.L.Section
- 15.All Direct Demanding Officers as per mailing list maintained by DGS&D.

(SURENDRA SINGH)

Assistant Director (S) / Section Officer / Deputy Director FOR DIRECTOR GENERAL OF SUPPLIES & DISPOSALS

RATE CONTRACT No.:-SWHS/IT-2/RC-D3060000/0310/82/03609/0631 Dated 24-APR-09 for THE SUPPLY OF Solar Water Heating System ADVANCE RATE CONTRACT NO. Nil 117 Dated 3.(a) NAME AND FULL ADDRESS OF THE FIRM -EMMVEE SOLAR SYSTEM PVT. LTD No.55, SOLAR TOWER, 6th Main, 11th Cross, Lakshmaiah Block, Ganganagar KARNATAKA - 560024 Tel. No. - 080 23337427 Fax - 080 23332060 Email - manjunatha.v@emmvee.in (b) NAME AND FULL ADDRESS OF MANUFACTURER -EMMVEE SOLAR SYSTEM PVT. LTD
No.55, SOLAR TOWER, 6th Main, 11th Cross,
Lakshmaiah Block, Ganganagar, Bangalore, 560024 BRAND: As per Sch B VALIDITY OF RATE CONTRACT :: 24-APR-09 To 31-MAR-10 对对自由的 医神经性 DESCRIPTION OF ITEM, SPECIFICATION UNIT, RATE Item Model Store Description Unit Rate No. No. Solarize Solar Water Dated capacity in litres per day NOS. 19737:

System with area of collector (sq. mtrs): Rs. ONE
heat 20.Electrical heater back up
exchanger (KW): 9.Capacity of make up tank
Type 1 for (ltrs.): 10

Cold region. THREE SEVEN THREE. HUNDRED SEVENTY-1! Golarise Solar Water Rated capacity in litres per day NOS. 179137.

HE System with area of collector (sq.mtrs.): Rs. ONE heat 18.Electrical heater back up exchanger (KW): 9.Capacity of make up tank SEVENTY-Type 2 for (ltrs): 10

Warm region. THOUSAND ONE FOUR ONLY

Page 4

1.

Download Date: 04-MAY-09

HUNDRED :

Spenders OF DELIVERY:

Free delivery at consignce's premises including installation & Commissioning

7-EXCISE DUTY:

8-SALES TAX:

Inclusive of CST / VAT @4%

9-DELIVERY PERIOD:

4 TO 8 weeks from the date of receipt of confirmed order.

10-ANNUAL TURNOVER/MONETARY LIMIT:

2005-06 2949.44 Lakhs

11-PAYMENT TERMS

90% on proof of inspection and provisional receipt of the stores by consignee and balance 10% on acceptance of the store after installation & commissioning and on submission of BG for equal amount of the balance payment valid for 2 months beyond the guarantee/ warranty period.

12-SLAB DISCOUNT CLAUSE:

13-PRICES:

於不過接換器可能

2% discount for single order of 10000LPD and above capacity

FIXED

ΝA

14-QUANTITY OFFERED:

Monetary Limit: Without Limit

15-MIN, QUANTITY IN SINGLE SUPPLY ORDER:

Without Limit

16-MIN. ORDER VALUE IN SINGLE SUPPLY ORDER:

Without Limit

17-STATUS OF RC HOLDING FIRM:

LSI

18-PAYING AUTHORITY:

The Deputy Controller of Accounts, Deptt. of Supply Shastri Bhawan, 26, Haddows Road Chennai - 600006

19-INSPECTION AUTHORITY:

For Civil and Defence ADG(QA), Jeevan Tara Building, Parliament Street

New Delhi

20-QUALITY ASSURANCE OFFICER:

For Civil and Defence Director Quality Assurance, Kendrya Sadan, 17 th Main Road,

Borres

Page 4

Download Date: 04-MAY-05

Second block, Komamangala Bangalore KARNATAKA -560034 28-

BE FENEDERED FOR INSPECTION:

. At firm's factory premises

22-R/C IS DDOs OPERATED,

Yes

With effect from First October two thousand eight (01-10-2008), all supply order(s) against this Rate Contract must be placed by Direct Demanding Officer(s) on-line through D.G.S&D web site (www.dgsnd.gov.in) (indentor's page) only. Supply order(s) in any other form placed on or after 01-10-2008 shall not be valid and shall not be acted upon by the contractor or any other concerned agencies.

DDO shall download the supply order and send an ink signed copy to the concerned paying authority specified in the rate contract through Registered / speed post immediately after on-line placement of Supply Order(s).

23-PACKING & SPECIFICATION

see annexure

(SUREHDRA STHGH)

Asstt. Director (S) / Section Officer / Dy. Director For and behalf of the purchaser named in the Form DGS&D 1001.

All the R/C particulars including prices in respect of individual R/Cs are available on DGS&D website which can be accessed by all.
The DGS&D website is http://dgsnd.gov.in

Page 5

Download Date: 04-MAY-CB

RC SPECIFICATION:

1. GUARANTEE / WARRANTY

- The Solar Water Heating Systems shall be warranted for a minimum period of 2 years from the date of installation and commissioning against any manufacturing and design defects. Consumables such as sacrificial anode, electrical heter, rubber parts etc. shall be warranted for a minimum period of one year from the date of installation and commissioning. For details please refer clause 18 of DGS&D 71 & Clause- 18 of DGS&D- 1001
- 2. Brand: Solarizer 304 (for flat plat collector) AND SUNERGY (for ETC systems)
- 3. Note to Indentor
- 1. Consignee shall provide the following provision free of cost to contractor for installation and commissioning of the system.
- a) Levelled horizontal & shadow free roof area for installation of the system.
- b) Cold water tank & supply pipe line to the solar water heating system.
 - c) Free covered locked storage space for keeping the solar collectors & other system components during installation.
 - (1) Free electricity & water supply at the site during installation & commissioning.
 - e) Electric supply connection near the system.
 - f) Cold water tank shall be provided at a height of 3 meters from the level of roof.

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LIST OF PARALLEL RATE CONTRACT FOR Solar Water Heating System

^{pa} ≈ No. NAME & FULL ADDRESS OF FIRM

R/C NO & DATE

MERLONI TERMOSANITARI (1) LID

Chakan-Talegaon Road, Chakan,

Pune

MAHARASHTRA . 411501

SWHS/IT-2/RC-

D3060000/0310/82/64717/0637

24-APR-09

GREENTEK INDIA PRIVATE LIMITED

plot#8, lepakshi colony, west |

marredpally secunderabad

ANDHRA PRADESH 500026

SWHS/IT-2/RC-

SWHS/IT-2/RC-

D3060000/0310/82/04468/0636

24-APR-09

DIVYA INDUSTRIES

No.814, Laggere Main road, Chowdeswari Nagar, Laggere,

Peenya P.O. Bangalore

KARNATAKA

560058

D3060000/0310/82/03948/0635 24-APR-09

BIPIN ENGINEERS PVT.LTD.PUNE

S.No.143, Wadgoan Dhairy Sinhgad

Road Pune

MAHARASHTRA

411041

SWHS/IT-2/RC-

D3060000/0310/82/01142/0634

24-APR-09

RASHMI INDUSTRIES

No. 60 & 61, Hongasandra, Begur

Road

Bangalore

KARNATAKA

560068

SNHS, IT-2/RC-

.**D3060000/0310/8**2/03949/0633

21-APR-09

- KOTAK URJA PVT. LTD.

#311,3rd Floor, Lotus House, 33 A, Mark

V. Thackersey Marg, New Marine line,

Mumbai

MAHARASHTRA

400020

SWHS/IT-2/RC-D3060000/0310/82/00226/0632 24-APR-09

EMMVEE SOLAR SYSTEM PVT. LTD

No.55, SOLAR TOWER, 6th Main, 11th Cross, Lakshmaiah Block,

SWHS/IT-2/RC-D3060000/0310/82/03609/0631 24-APR-09

	7.	Ganganagar	JWHILE I RET BYONGOODOSTO BY 10 SHOW (DOK) Pri Arm 90
		Bangalore KARNATAKA 560024	
U	ath a 2y,		
	8	SUN ZONE SOLAR SYSTEMS	SWHS/IT-27RC- D3060000/0310/82/04319/0630 - 24-APR-09
		# 1/4, Balagangadhara Nagar, Mallathahalli, B/H Santord College, BANGALORE	
		KARNATAKA 560056	
	9	PHOTON ENERGY SYSTEMS LTD	SWRS/IT-2/RC- D3060000/0310/82/04589/0629 24-APR-09
		775-K,ROAD NO-45,JUBILEE HILLS ,HYDERABAD HYDERABAD	
П		ANDHRA PRADESH 500033	
	10	NUETECH SOLAR SYSTEMS PVT.LIMITED	SWHS/TT-2/RC- D3060000/0310/82/03089/0628 24-APR-09
	,*+	P.B.No.9167, B.M.Shankarappa Industrial Estate, Sunkadakatte Bangalore	
[7]		KARNATAKA 560091	
	11	JAY INDUSTRIES	SWHS/IT-2/RC- D3060000/0310/82/03427/0627 24-APR-09
n		D-64, MIDC Miraj	
		MAHARASHTRA 416410	
	12	JAIN IRRIGATION SYSTEMS LTD	SWHS/IT-2/RC- D3660000/0310/32/04140/0625
		Jain Energy Park,P.O.Eox 20, Jalgaon Jalgaon	34-APR-09
		MAHARASHTRA 425001	
!	13	SOLAR ENERGIZERS (P) LTD.	SWHS/IT-2/RC- D3060000/0310/82/03136/0639 24-APR-09
		55, Nakhuda Street, Nagdevi, Mumbai - 400 003 MAHARASHTRA 400003	
	14	MAHARISHI SOLAR TECHNOLOGY (P) LTD	SWHS/IT-2/RC- D3060000/0310/82/04585/0640 24-APR-09
П		A-14, Mohan cooperative Industrial estate, Mathura Road Sarita Vihar	
[]		DELHI 110044	\$
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Page 8

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TATA BP SOLAR INDIA LTD. Tata BP Solar India Ltd. SWHS/1T-2/RC-

D3060000/0310/82/03107/0638

24-APR-09

Barakhamba Lane , New Delhi New Delhi

DELHI

110001

70-74, UGF, World Trade Centre,

VELNET NON-CONVENTIONAL ENERGY

SWHS/IT-2/RC-

. D3060000/0310/82/04014/0611

24-APR-09

NO.120, RING ROAD BHADRAPPA LAYOUT NAGASHETTY HALLI

SYSTEMS PVT.LTD.

BANGALORE

KARNATAKA

560094

SUNRISE SOLAR PVT. LTD.,

No.1191/8,13th Main, Prakash Nagar

BANGALORE

KARNATAKA

560021

EMPIRE FANTRONICS (I) PVT. LTD. 18

> B-407 1ST FLOOR, MANGOL PURI INDUSTRIAL AREA, PHASE-1

NEW DELHI

DELHI

110083

SWHS/IT-2/RC-

ED3060000/0310/82/04122/600

31-MAR-09

SWHS/IT-2/RC-

D3060000/0310/82/02967/0599

31-MAR-09

NOTE:

(1) Before placing supply order, DDOs are advised to check with DGSED or on the website whether any further RCs have been "awarded" or amendments to -Rate Contract have been issued

(2) All the R/C particulars including prices in respect of individual R/C's are available on BUSED website, which can be accessed by all, the access code of DGS&D website is http://dgsmd.yov.in

Pasqe 9

Inchesional Detail gar-MAY-09-

AUNEXURE

FOR SCHAP WATER BEATING SYSTEM WITH FLAT COLLECTOR PLATE:

For Schedule 1 and 4: Type 1 for Cold Regions is for areas where ambient

reaches 5 degree C or below.

2.For Schedule 2 and 5:Type 2 for Warm Regions is for areas where ambient temperature

are moderate and do not normally go below 5 degree C.

3. Solar water heating system comprising of solar flat plate collector, collectors stand assembly, stainless steel insulated hot water storage tank with heat exchanger and various other components.

Solar flat plate collector component shall have:

- a) solar flat plate collector cover plate made of toughened glass
- b) Sheet for absorber made of copper
- c) Absorber made of copper sheet and copper tube.
- 4. Solar Flat Plate Collector Specifications : Solar flat plate collector shall conforming to IS: 12933 (part 1) with amdt.no.1 &

and IS:12933(Part 2)/2003 and various components shall be as under:

- a) Cover plate: Cover plate shall be toughered glass and thickness of 4.0 mm (min.) conforming to section-1 of IS: 12933(pt-2)/2003. The solar transmittance of the cover plate shall be minimum 82 percent at near normal incidence.
- b) Collector Box: Collector box shall be made of Aluminium sections only. Type, grade, size, workmanship and finish of the material used shall be as per section-2 of IS:12933 (pt-2)/2003. The minimum thickness of Aluminium shall be as under:

✓1) Channel section for sides 1.6 mm
ii) Sheet for bottom 0.7 mm
iii) Support for glass retaining 1.2 mm
iv) Sheet for entire body 1.0 mm

- c) Absorber: Absorber shall consist of riser, header and—sheet for absorber. The Diameter of header shall be 25.4 +/-0.5mm and thickness 0.71mm. The Diameter of riser shall be 12.7 +/-0.5mm and thickness 0.56mm and made of copper only. The distance between the risers from center to center shall be 120mm. Type grade, size, workmanship and finish of the material used shall be as per section-3 of IS:12933 (pt-2)/2003. Riser and header assembly designed for working pressure up to 24.5 K Pa (2.5kg/cm square) shall be tested for leakage at a minimum hydraulic pressure of 490 k Pa (5 Kg/cm square).
 - d) Sheet for absorber: Sheet for absorber shall be made of copper only. Type, grade, size, workmanship and finis of the material used shall be as per sectiob-3 of IS:12933 (pt-2)/2003. A sample piece of the absorber for having minimum area of 400 square cm. shall be heated in an oven at temperature of 175 degree C for 2 hours. After heating, the sample shall be taken out from the oven and cooled at room temperature. The cooled sample shall be inspected visually for damages, if any. There shall not be any appearance of blistering/rupture/peeling off of the coated/painted surface and of weakening of the bonding between absorber sheet and risers/headers.

Page 10

Them hard Palet: 03-MAY-09

e) Collector box insulation: Insulation shall be provided at back and sides. Thermal Resistance (R) of insulation material shall be minimum 0.96 m square degree C/W for back insulation and minimum 0.48 m square degree C/W for side insulation. This shall be derived after determining thermal conductivity (K) value at 100 degree C mean temperature in accordance with IS:3346.Collector box insulation shall conform to sec.4 of TS: 12933(pt-2)/2003

- f) Gaskets and Grommets: Gaskets and Grommets shall conform to sec:5 of 1S: 12933 (pt-2)/2003.
- 5. Insulated hot water storage tank: The thickness of the water storage tank shall be uniform.
 - a) Material: Insulated hot water storage tank shall be non-pressure type and made of stainless steel grade (X04Cr19Ni9 or X07Cr18Ni9 of IS: 1570(part 5) /1985) (Reaffirmed 2004), TIG/MIG welded
 - b) Insulation:: Solar water heating system (SWHS), up to and including 500 LPD shall be insulated with 40mm thermal grade PUF insulation of 32 Kg/ meter cube or higher density. PUF insulation could be pre extruded type fitted with FRP exterior cladding or alternatively injection moulded in a twin walled steel tank and PPE end cap. Other systems shall be insulated with 100mm thick Rock wool of 48Kg/m3 density with 22swg Aluminum cladding Systems up to 500 LPD may also alternatively be installed with 100 mm thick Rock wool of same specifications with aluminium or G.I.powder coated cladding.
 - c) Tank stand assembly shall be made of MS angle of size (min) 38x36x4 mm duly pretreated and stove enameled with black Colour paint. Alternatively tubular structure with Powder coating could also be provided.
- 6 Heat exchanger shall be cage type and made of copper/stainless steel tubes of grade X04Cr19Ni9 or X07Cr18Ni9 of IS: 1570(part 5)/1985(Reaffirmed 2004) . Heat exchangers

shall have a minimum of 0.24 sq. meters heat transfer area per 100 LPD capacity.

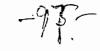
- 7 System inter connecting piping :ISI marked G.I. pipes, medium class of 1S: 1239 duly insulated with 50mm thick rock wool of 48 %g/m3 density and 26swg Al cladding. EPDM hose pipes can also be used for systems up to and including 500LPD.
- 8 Collector stand assembly shall be made of MS angle of size 38x38x4 mm duly pretreated and stove enameled with black Colour paint. Alternatively tubular structure with Powder coating could also be provided.
- 9. The capacity of make up tank shall be 5 liters up to 500 LPD and 10 liters for 1000 LPD and above.

Electrical heaters: Electrical heater shall be ISI marked. Electrical heater backup shall be two nos. each of rating 3 KW for 500 LPD, 3 nos. each of rating 3 KW for 1000 LPD, 4 nos. each of rating 3 KW for 2000 LPD and 2 nos. of 3 KW rating in each of the three phase for 3000 LPD.

11. Temperature Gauge: Dial type, duly calibrated and suitable for temperature range from 0 degree C to 120 degree C and shall be provided for capacity above 500 LPD.

Bacca

12. Suppliers shall turnish 2 valves, one for inlet and one for outlet



- 13.0 Der component essential for completeness of the system as per tenderers specification.
- 14.In allacion, testing and commissioning of the complete system at consigner; end shall be completed within two months from the date of confirmation received from consignee that the ground and foundation work has been completed.
- 15. Supplier shall get general arrangement drawings approved from the indenter or consignee before supply of the system above 500 LPD. General arrangement drawing shall clearly show all the parts of the system (such as solar flat plate collectors, collectors stand assembly, stainless steel insulated hot water storage tank complete with stainless steel heat exchanger, sacrificial anode, electrical back up, internal and external piping, tank stand assembly, various valves, pressure gauges, temperature gauges, water meter etc) and their fixing arrangements.
- 16. Suppliers shall supply two sets of instruction manual to the consignee without any extra cost. Instruction manual shall containing the following details:
 - a) Schematic diagram of the solar collector and a domestic hot water system.
 - b) Instructions for installation (including mounting details) and use and safety precautions.
 - c) Instructions for repair and maintenance including causes for common failures, such as, dust ingress on glass cover, peeling of paint, scaling, damaged scalant, gasket and grommets and their remedies and
 - d) List of service outlets.
- 17. The firms shall furnish complete and satisfactory type test reports for each size / type of solar flat place collector as per contract specification from any govt. laboratory to the concerned Director (QA). Type test reports shall be complete with authenticated drawing giving complete details of the various component used in the solar flat plate collector. Type test reports shall include all the tests listed in IS: 12933 (part 1) with amdt.no.1(excluding test requirements as per cl. 7.2.7 and 7.2.8 of IS) and IS:12933(Part 2)/2003 and also the tests included on various components of solar flat plate collector as per IS:12933 (pt 2) / 2003.
- 18. The supplier shall get themselves registered for all the item as per this tender enquiry specification.

GENERAL TECHNICAL REQUIREMENTS FOR EVACUATED TUBE COLLECTOR SOLAR WATER HEATING SYSTEMS;

For Schedule 3:Solar Water Heating System with Evacuated Tube Collector type

Joins

Page 13

- 경우 트립트의 전문생리교육(전환원)(24년) 1. Electrical beaters: Electrical beater shall be 10 marked. Electrical beater backup shall be two nos sach of coting a EW for 500 LPD; 3 nos. each of rating 3 KW for 1000 LPD; 4 nos. each of rating 3 KW for 2000 LPD and a nos. of 3 KW rating in each of the three phase for 4000 LPD. 2. Installation, testing and commissioning of the complete system at consignee's end shall be completed within two months from the date of confirmation received from consignee that the ground and foundation work has been completed. 3. Supplier shall get general arrangement drawings approved from the indenter or consignee before supply of the system above 500 LPD. General arrangement drawing shall clearly show all the parts of the system (such as electrical back up, internal and external piping, tank stand assembly, various valves, pressure gauges, temperature gauges, water meter etc) and their fixing 4. Suppliers shall supply two sets of instruction manual to the consignee without any extra cost. Instruction manual shall containing the following details: a) Schematic diagram of the solar collector and a domestic hot water system. b) Instructions for installation (including mounting details) and use and c) Instructions for repair and maintenance including causes for common failures, such as, dust ingress on glass tubes, peeling of paint, scaling, damaged sealant, gasket and grommets and their remedies and d)List of service outlets. The follwing test to be conducted on solar water heating Evouated tube collector
 - a. High voltage test at 1500 V for 1 Minute.
 - b. Insulation Resistence Test. IR shall not be less than 2M ohms at 500 DC.
 - c. Verification of the features and functional performence of the system.

Supplier shall submit approval from MNRE/Type test certificates as per MNRE specification for Evouated Tube Collector type Solar water Heating System at

Solar Water Heating System with heat exchanger Type 1 for cold region.

Specification :

Water Heating System with heat exchanger Type 1 for cold regions with Solar flat plate collector conforming to IS: 12933 (part 1)/2003 with amdt no land 2 & IS:12933 (Part 2)/2003 as per General Technical Requirements. Solar Water Heating System with heat exchanger Type 2 for warm region.

Specification :

Solar Water Heating System with heat exchanger Type 2 for warm regions with Solar flat plate collector conforming to IS: 12933 (part 1)/2003 with amdt.no.1 and 2 & IS:12933 (Part-2)/2003 as per General Technical Requirements.

Page 13

Download Date: 04-MAY-09

Amendment No. SWHS/IT-2/RC-D3060000/0310/82/03609/0631/24291 / 7 6 Dated 21-05-2009
Effective Date 21-MAY-09

M/S EMMVEE SOLAR SYSTEM PVT. LTD
No.55, SOLAR TOWER, 6th Main, 11th Cross, Lakshmaiah Block, Ganganagar Bangalore
KARNATAKA-560024.

Sub: This office R/C No. SWHS/IT-2/RC-D3060000/0310/82/03609/0631 Dated 24-APR-09 for the Supply of Solar Water Heating System.

Ref : Your Letter No. ESSPL/DGS&D/CO-2/2009-10 Dated 10-MAY-09.

Dear Sir,

The following amendments to the schedule to subject rate contract in terms of rate are hereby authorised:

UNDER SCHEDULE-A

Item: Solar Water Heating System with heat exchanger Type 1 for cold region.

	Item Description		Revised Rate
1	Rated capacity in litres per, day (LPD): 100, Min. aperture area of collector (sq. mtrs): 2, Electrical heater back up (KW): 2, Capacity of make up tank (ltrs.): 5	NOS.	Rs. 26306 Rs. TWENTY-SIX THOUSAND THREE HUNDRED SIX ONLY

Item: Solar Water Heating System with heat exchanger Type 1 for cold region.

Item Description

Revised Rate

	Rated capacity in litres per day (LFD): 200,Min. aperture area of collector (sq: mtrs): 4,Electrical	NOS.	Rs. 44033 Rs. FORTY-FOUR THOUSAND THIRTY-
·	heater back up (KW): 3, Capacity of make up tank (ltrs.): 5		THREE ONLY

Item: Solar Water Heating System with heat exchanger Type 1 for cold region.

	Item Description Revised F	late
3 .	Rated capacity in litres per day NOS. Rs. 61	127
	(LPD): 300, Min. aperture area of Rs. SIXTY-C collector (sq. mtrs): 6, Electrical THOUSAND C	
	heater back up (KW): 4 Capacity of HUNDRED TWEN	TTY -
	make up tank (ltrs.): 5 SEVEN C	NLY

Item: Solar Water Heating System with heat exchanger Type 1 for cold region.

Item Description

Revised Rate

Rated capacity in litres per day	NOS.	Rs. 91420
(LPD): 500, Min. aperture area of		Rs. NINETY-ONE
collector (sq. mtrs): 10, Electrical		THOUSAND FOUR
heater back up (KW): 6, Capacity of	•	HUNDRED TWENTY
make up tank (ltrs.): 5		ONLY

Page 1 of 5

70000

Download Date: 21-MAY-09

	Item Description	Revised Rate
11.	Rated capacity in litres per day (LPD): 100, Min. aperture area of collector (sq.mtrs.): 1.8, Electrical heater back up (KW): 2, Capacity of make up tank (ltrs): 5	RE. TWENTY-SIX THOUGAND THREE
Item:	Solar Water Heating System with heat exchangesion.	nger Type 2 for warm
	Item Description	Revised Rate
12	Rated capacity in litres per day (LPD): 200,Min. aperture area of collector (sq.mtrs.): 3.6,Electrical heater back up (KW): 3,Capacity of make up tank (ltrs): 5	NOS. Rs. 44033 Rs. FORTY-FOUR THOUSAND THIRTY- THREE ONLY
Item:	Solar Water Heating System with heat exchange	nger Type 2 for warm
•	region. Item Description	Revised Rate
		•
1,3	Rated capacity in litres per day (LPD): 300, Min. aperture area of	
	(LPD): 300,Min. aperture area of collector (sq.mtrs.): 5.4,Electrical heater back up (KW):	J THOUSAND FOUR
	4. Capacity of make up tank (ltrs): 5	HUNDRED SIXTEEN ONLY
Item:	Solar Water Heating System with heat exchange	nger Type 2 for warm
	Item Description	Revised Rate
14	Rated capacity in litres per day (LPD): 500, Min. aperture area of collector, [(sq.mtrs.): 9.0, Electrical heater back up (KW): 6, Capacity of make up tank (ltrs): 5	THOUSAND FOUR
Item:	Solar Water Heating System for cold region Type 1.	without heat exchanger
	Item Description	Revised Rate
30	Rated capacity in litres per day (LPD): 100, Min. aperture area of collector (sq. mtrs): 2, Electrical heater back up (KW): 2	Rs. TWENTY-FIVE
T	Solar Water Heating System for cold region	
Item:	Type 1. Item Description	Revised Rate
. 31	Rated capacity in litres per day	NOS. Rs. 42724
	(LPD): 200,Min. aperture area of collector (sq. mtrs): 4,Electrical heater back,up (KW): 3	Rs. FORTY-TWO THOUSAND SEVEN HUNDRED TWENTY- FOUR ONLY
Item:	Solar Water Heating System for cold region Type 1.	without heat exchanger
	Item Description	Revised Rate
32	Rated capacity in litres per day (LPD): 300, Min. aperture area of collector (sq. mtrs): 6, Electrical	NOS. Rs. 59400 Rs. FIFTY-NINE THOUSAND FOUR
Page 2 of 5		Download Date: 21-MAY-09
		- Designation of the second

	Type 1.	
	Item Description	Revised Rat
33	Rated capacity in litres per day (LPD): 500,Min. aperture area of collector (sq. mtrs): 10,Electrical heater back up (KW): 6	Rs. EIGHTY-NINE
Item:	Solar Water Heating System for warm region Type 2.	without heat exchanger
	Item Description	, Revised Rat
4.0	Rated capacity in litres per day (LPD): 100,Min. aperture area of collector (sq. mtrs): 1.8,Electrical heater back up (KW: 2	THOUSAND TWO
Ttem.	Solar Water Heating System for warm region	without heat exchanger
rcem.	Type 2.	without near exchanger
	Item Description	Revised Rat
41 .	Rated capacity in litres per day (LPD): 200,Min. aperture area of collector (sq. mtrs): 3.6,Electrical heater back up (KW: 3	RS. 4174 RS. FORTY-ONE THOUSAND SEVEN HUNDRED FORTY ONE ONL
Item:	Solar Water Heating System for warm region	without heat exchanger
	Type 2.	
	Item Description	Revised Rat
42	Rated capacity in litres per day (LPD): 300, Min. aperture area of collector (sq. mtrs): 5.4, Electrical heater back up (KW: 4	THOUSAND SEVEN
Item:	Solar Water Heating System for warm region Type 2.	without heat exchanger
_	Item Description	Revised Rat
43	Rated capacity in litres per day (LPD): 500, Min. aperture area of collector (sq. mtrs): 9, Electrical heater back up (KW: 6	NOS. RS. 8973 RS. EIGHTY-NINE THOUSAND SEVEN HUNDRED THIRTY SEVEN ONL

Item: Solar Water Heating System for cold region without heat exchanger

Please ack. receipt.

Yours faithfully,

(SURENDRA SINGH) (Section Officer/A.D./D.D.)

(Section Officer/K.D./D

Page 3 of 5

Download Date: 21-MAY-09

Copy to :-

- The Controller of Accounts, Department of Commerce (supply division), Chennai (Through Authentication Cell), This issues with the approval of Competent Authority
- 2. Inspection Authority: ADG (QA), DGS&D, New Delhi

1.

- 3. Quality Assurance Officer: Director of Quality Assurance: Director (QA), Bangalore
- 4. MIS Cell
- Ledger Clerk
- 6. O.L. Section
- 7. R.L.O

(SURENDRA SINGH)
ASSISTANT DIRECTOR (S)
FOR DIRECTOR GENERAL OF SUPPLIES & DISPOSALS

Pownload Date: 21-MAY-09

Estima	ate cold water tanks & supply pipe line to the as per line diagram.	Solar	Wate	er Heeating	System
	Details of Balance of Work				
	PRICE SCHEDULE for Balance of				
Sr. No.	Description	Qty.	Unit-	Unit Price	Amount
1 .	Supplying and fixing of a cold water tank (make Sintex/Polocon/Reno) of the following capacities to be fixed, in order to make them the overhead tank above the Solar Water Heating System		,		
	a) 5000 ltrs. for boys hotels no. 1,2,3 & 10	<u> </u>	Nos.	37265.63	
	b) 3000 ltrs for boys hostels no. 4,5,7, 8 & 9	18	Nos.	22359.38	402468.8
	c) 2000 ltrs. for boys hostel no. 6	3	Nos.	14906.25	44718.7
	d) 2500 ltrs for girls hostels	4	Nos	18632.81	74531.2
	e) 1000 itrs for all hostel's mess		Nos.	7453.13	81984.
2	fabricating, suppling & fixing of an approprate structure made up of M.S frame with a combination of C- Channel 100 x 50 x 50 and angle iron 35 x 35 x 3 of design and specs attached		Nos.	58000.00	2494000.0
3	Supplying and fixing of GI Piping. B-Class of various dia, as mentioned below & to be connected with Solar Water Heating System at the supply end (Cold Water application)				
	a) 32mm	1208	Mtr.	425.00	513400.0
	b)20mm	336.6	Mtr.	346.00	116463
4	Supplying and fixing of GI Piping. B-Class of various dia, as mentioned below along with nitrile insulation of thickness 9mm and aluminium sheet of 28 SWG to be connected with Solar Water Heating System at the distribution end. (Hot Water Applications).				
	a) 32mm	1142	Mtr.	820	936440.0
	b) 25mm		Mtr.	670	
	d) 15mm	291	Mtr.	540	157140.
5	Supplying and fixing followingsize Gun meal valves in exising pipe line i/c connections, testing etc. as regd.:-				
	Gate values, 32mm (Make sant/Leader)		Pcs.	1775	
	Taps 13mm		Pcs.	275	
	Ball Cocks	43	Pcs	375	
	Total				6064411.

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Executive Engineer NTT, Kurukshetra

		: :					 : :	
					CERTAIN CONTRACTOR			
								7 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -
in ion i Problin Massillai kaika kailit								
			TOTAL CONTROL OF THE PROPERTY	20 000 1 000 000 000 000 000 000 000 000				
e eff ees								E.
			-					
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ANALYSIS OF RATE AS PER AGGREEMENT JUSTIFIED RATE

No. of Sections /

Length (Mtr.) /

Weight

Item:- Fabricating, Supplying and fixing of Cold water tank support structure made out of MS Channel 100x50x50 & Angle Iron 35mmx35mmx5mmwith the top of structure to be covered with MS Sheet as per drawing and applying a primmer coat of approved steel primmer and painting with synthetic enamel paint complete as per direction of Engineer-in-charge.

			1 3 (3)		1 1101901	
	Description	Quantity	Qty.	Rate	(Kg.)	Amount
F	Part - A Cost of Support Steel Structure inculing of 10% wastage					
f	abrication Charges including Supply of MS sections cited above					
p	painting charges with sysnthetic enamel paint.					
10	C - Channel 100mm x 50mm 39.5m @ 9.56kg / Mtr					
2 V	Veight of Angle Iron 35 x 35 x 5 21.25m @2.6kg./ Mtr.					
	Total			83	475.95	39504.21
	Total weight of Angle Iron					***************************************
N	MS Sheet 0.97 Mtr. x 0.97Mtr.x1.2 mm thick = 0.94 Sq. mtr.		·			
4 V	Veight of MS Sheet 9.8 kg. / Sq. Mtr. (For 1.23mm Thick)			88	119.22	10491.53
	Total of A					10005.71
	Total of A		<u> </u>			49995.74
ic	Part- B Cement Concreat Column		· · · · · · · · · · · · · · · · · · ·		1	·
	Cement Concreat column (1:2:4) 250mm dia x 250mm Height = 0.012					
	u.Mtr.x6=0.072 cu. Mtr.		0.1584	3579	}	566.91
	Total of B					566.91
IF	Part- C Fixing & Labor					
10	Contractors Profit on item 1, 2, & 3			15%		7499.36
	Total of C					7499.36
	Total of A+B+C					58062.01
						

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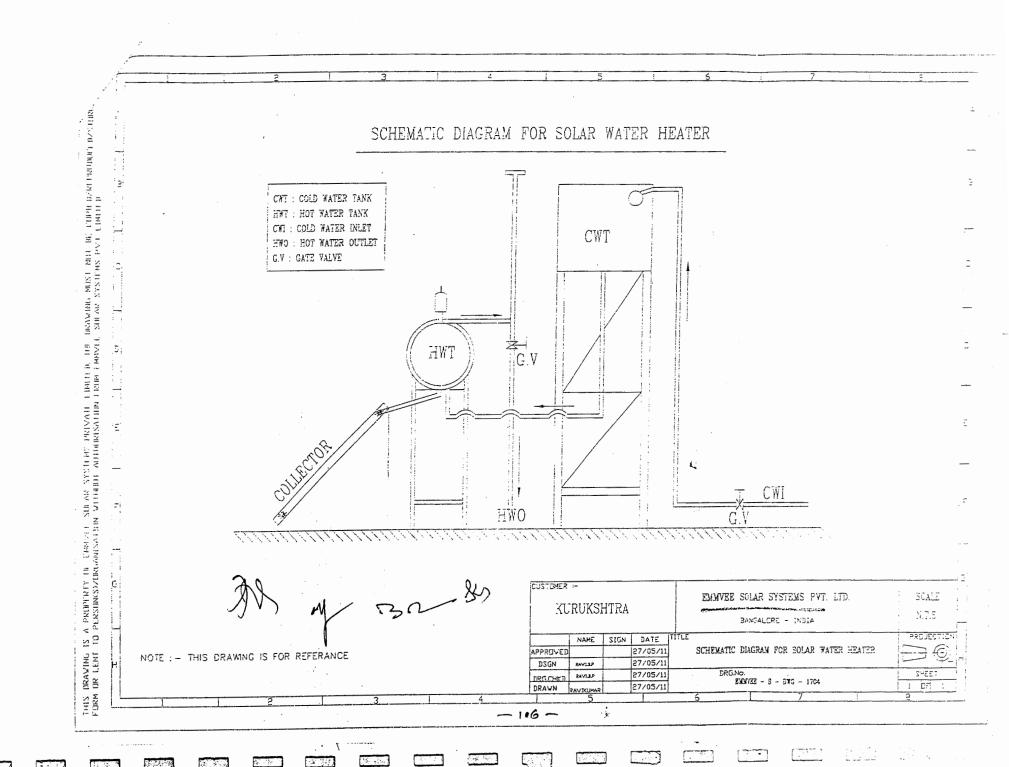
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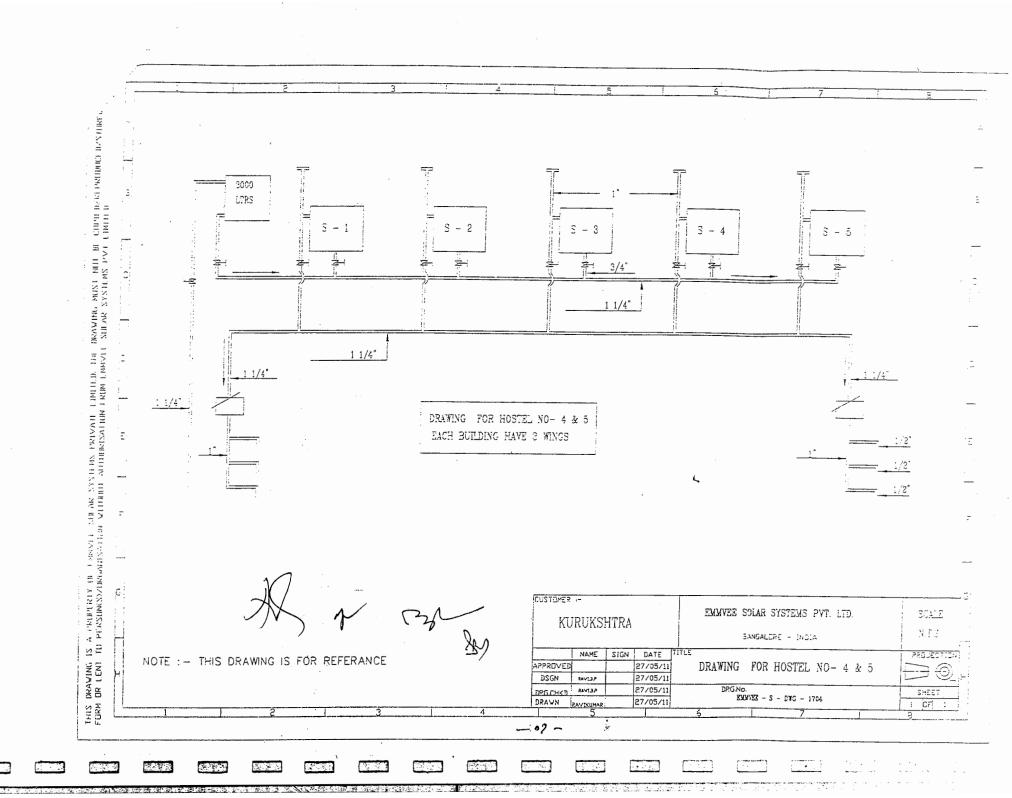
Descriptior Met	res	No. of Sect	Total Metre Section	Weight
Length	3.16	4	12 64 Channel	3
Width	2.25	11	24.75 100x50	
Angle Base	0.35	6	2 1	

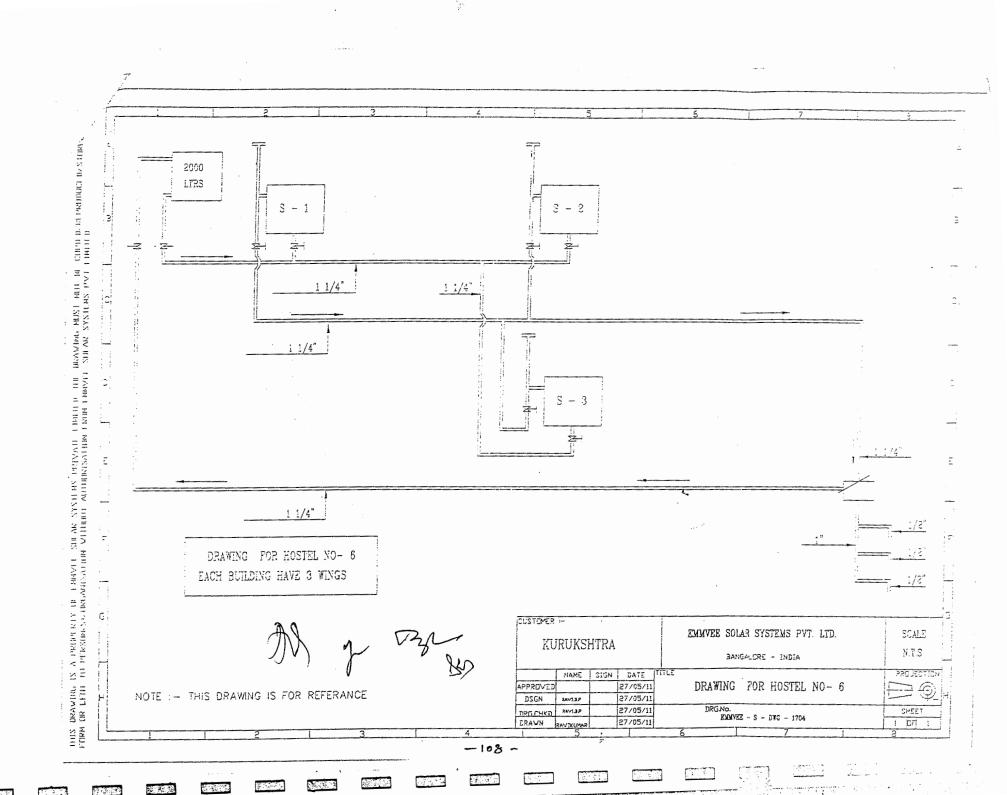
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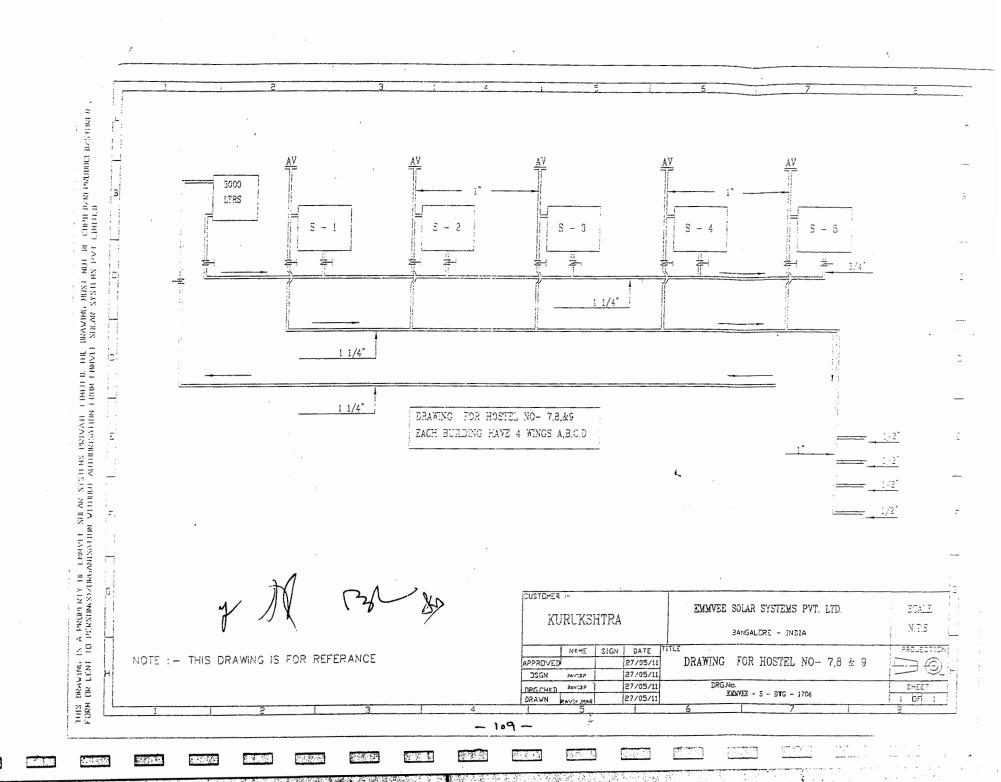
			39.49	9.56	377.52
Cross supr	3.48	4	13.94 Ar	gle 35x35	(5
Angle Step	0.35	6	2.1		
Support for	0.5	8	4		
Angle conr	1.18	1	1.18		
			21.22	2.6	55.16 432.69
. Wa	estage	10%			43.27
					475.95
				4	0456.12

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Item No. 15.11 To consider and approve the Rough Cost Estimate for Construction of 600 seater Girls Hostel (Multi-Storeyed framed structure, Ground Floor +5) at NIT, Kurukshetra.

National Institute of Technology, Kurukshetra is growing steadily in terms of students intake at UG and PG level. Keeping in view the insufficient accommodation available for the increased intake of students, a committee was constituted under the Chairmanship of Dean (P & D) to assess the additional requirement of building space for Institutional buildings & Hostels etc. The Committee has recommended to put up the proposal in ensuing B & WC meeting for approval of the 600 seater Girls Hostel (Multi-Storeyed framed structure, Ground Floor +5) at NIT, Kurukshetra. The preliminary estimate of the work on plinth area basis on DSR is enclosed for an amount of Rs. 46.66 crore. The above proposal recommended by the High Power Committee has been approved by the then Hon'ble Director, NIT, Kurukshetra. The location of the proposed hostel will be in the vacant plot in front of new girls hostel (300 seater) and back side of BB-BC Type Houses.

The B & WC may consider and approve the Rough Cost Estimate for the above cited work amounting to Rs. 46.66 crore.

Preliminary Estimate for consturciton of 600 seater Girls Hostel

On plinth area rates as per CPWD

(Multi-Storeyed framed structure) (Ground Floor + 5 storeyed)

1	Total plinth area for 600 seate				
	provisions, Dinning space, Ki room & residences for warde		toom, Gyr	20760 sqm.	i, offices, guest
11.54	Toom & residences for warde			<u> </u>	
	CPWD plinth area rates as on 0	1 10 2007			
(i) .	RCC framed structure upto 6 st		Rs.	9100 /sqm.	
(ii)	RCC raft foundation (Ground FI		Rs.	3560 /sgm.	
(iii)	Fire Fighting	• •	Rs.	300 /sqm.	
			Total	12960 + 27 %	
				16200 /sqm.	
	Total Cost :- 207	60 x 16	200 =	3363 lacs.	
2.	Services :-				
					000 1
(i)	Internal water supply and sanita	ary installations @	10% .	Rs.	336 lacs
(ii)	External Services @ 5%	42 F 0/		Rs.	168 lacs
(iii)	Internal electric installations @	13.5 %		Rs. Total	454 lacs 958 lacs
3.	Allied works such as lifts, bac	k up power supp	v. Sub-Sta		
(i)	Lifts 4 Nos. (13 passengers 88	4 kg. wt. 1.5m/s sp	eed)	@ Rs.	21 lacs each
				Rs.	84 lacs
(ii)	Stand by power supply (DG Se	ts)		Rs.	25 lacs
(iii)	Electric Sub-Station			Rs.	25 lacs
/:\	Franchise for Albertal offices Di	- 	otus	De	75 lacs
(iv)	Furniture for (Hostel, offices, Di	nning Hall, Kilchen	etc).	Rs. Total	209 lacs
				lotai	203 IdCS
	Grand Total =	3363 +	958	+	209
				**	4530 lacs
	3% contingencies			Rs.	136 lacs
				G. Total	4666 lacs
	<i>A</i>				
	} //			١.	_

Executive Engineer NIT, Kurukshetra Item No. 15.12 To consider and approve the Rough Cost Estimate for Construction of 300 seater Multi-Purpose Boys Hostel including 100 suites for foreign students, research scholars and married PG students (Multi-Storeyed framed structure Ground Floor + 5) at NIT, Kurukshetra.

A committee was constituted under the Chairmanship of Dean (P & D) to assess the additional requirement of building space for institutional buildings & Hostels etc. The Committee has recommended to put up a proposal in ensuing B & WC meeting for approval of the 300 seater Multi-Purpose boys hostel including 100 suites for foreign students, research scholars and married PG Students (Multi-Storeyed framed structure Ground Floor + 5) at NIT, Kurukshetra. The preliminary estimate of the work on plinth area basis on DSR is enclosed for an amount of Rs. 34.25 crore. The above proposal recommended by the High Power Committee has been approved by then Hon'ble Director, NIT, Kurukshetra. The location of the proposed hostel will be decided within six months as per Institute Master Plan.

The B & WC may consider and approve the Rough Cost Estimate for the above cited work amounting to Rs. 34.25 crore.

Preliminary Estimate for construction of 300 seater boys hostel including 100 suits for married P.G. Students/research Scholars.

on Plinth area rates as per CPWD (Multi-Storeyed framed structure) (Ground Floor + 5)

1. Total plinth area for 300 seater boys hostel Including 100 suits for married PG Students / Research Scholars.

dinning ha	r boys hostel 100 suits (family rooms with II, kitchen pantry, visitors rooms, sick roo sidence, entrance lounge, reception, stair	m, reading room,	warden office,	15300 /sqm.
CPWD plir	nth area rates as on 01.10.2007+ 25% ac	ld premium		
(i) .	RCC framed structure (up to 6 storeyes	•	` _	9100 /sqm.
(ii)	RCC raft foundation (Ground Floor only	•	=	3560 /sqm.
(ii)	Fire Fighting	,	=	300 /sqm.
(11)	The Fighting		Total	12960 + 27 %
				12300 3470
				16200 /sqm.
	Total Cost	=	15300 x	16200
			Total	2478 lacs
2. Service	ces			
(i)	Internal water supply and sanitary instal	llations @ 10%	Rs.	· 248 lacs
(ii)	External Service @ 5%		Rs.	124 lacs
(iii)	Internal electric installations @ 13.5 %		Rs.	334 lacs
(***)			Total	706 lacs
3.	Allied works such as lifts back up pov	ver supply, Sub-S	Stations, Furniture	s etc.
•				
(i)	Lifts 2 Nos. (13 passengers 884 kg. wt	1.5m/s speed)	@ Rs.	21 lacs each
. '			Rs.	42 lacs
(ii)	Back up power supply (DG Sets)		Rs.	20 lacs
(iii)	Electric H/T L/T S/S		Rs.	20 lacs
,	Furniture for Hostel (Rooms, PG rooms	s. offices.		
(iv)	Dinning Hall, Kitchen etc.).	,	Rs.	60 lacs
(,	Similing many materials and an area		Total	142 lacs
	Grand Total =	2478 +	706 +	142
			:=	3326 lacs
	3% contingencies		Rs.	99 lacs
	· ·		G. Tota	3425 lacs

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Executive Engineer NIT, Kurukshetra Item No. 15.13 To consider and approve the Rough Cost Estimate for Construction of 3 Storey bearer barracks comprising of 2 blocks to accommodate 96 bearers at NIT, Kurukshetra.

A committee was constituted under the Chairmanship of Dean (P & D) to assess the additional requirement of building space for instructional buildings & Hostels etc. The Committee has recommended to put up a proposal in ensuing B & WC meeting for approval of the 3 Storey bearer barracks comprising of 2 blocks to accommodate 96 bearers at NIT, Kurukshetra. The preliminary estimate of the work on plinth area basis on DSR is enclosed for amount of Rs. 2.45 erore. The above proposal recommended by the High Power Committee has been approved by the then Hon'ble Director, NIT, Kurukshetra. The proposed barracks will be located near to the existing barracks.

The B & WC may consider and approve the Rough Cost Estimate for the above cited work amounting to Rs. 2.45 crore.

Preliminary Estimate for Construction of 3 storey Bearer Barrack comprising of 02 blocks to accommodate 96 bearers.

On plinth area rates as per CPWD (3 stroreyed load bearing construction)

1	:	Total plinth area for 96 mess workers 3 storey barracks including 24 family rooms with attached toilets + Common room, circulation							
		corridors, etc.) sqm.						
(i)			ea rates as an 0 onstructions (3 s	01.10.2007 + 35 % ad torey) =	ld premium Rs. Rs. Total	6390 /sqm. 1598 /sqm. 7988 /sqm.			
		Total Cost	2300 x	7988 =	Rs.	184 Lacs.	`		
<u>2.</u>	_	Services :-							
(i) (ii) (iii)		External Service	upply, sanitary ir e connections @ installations @		F	Rs. Rs. Rs. Fotal	22 lacs 9 lacs 23 lacs 54 lacs		
		Grand Total 3% contingenci	= es	184 +			0 238 lacs 7 lacs 245 lacs		
		A	1/	Py-	_ &				

Executive Engineer NTT, Kurukshetra Item No. 15.14 To consider & approve the Rough Cost Estimate for construction of Boundary Wall (Left out stretches) for a length of about 800 mtr. and Gate (near UHBVN office) at NIT, Kurukshetra.

The majority portion of existing Boundary wall around the campus is RCC panelled. However, the Boundary wall for an approximate length of 800 meter is constructed in thin pre-cast concrete strips and is in a dilapidated condition. This is also causing a security concern. Therefore, from safety point of view, it is proposed to construct RCC panelled boundary wall (Left out stretches) for a length of about 800 mtr. A gate near UHBVN office adjoining to NIT campus is also required to be provided. The estimate for the above cited work has been prepared amounting to Rs. 43.51 lacs.

The B & WC may consider & approve the Rough Cost Estimate for the above cited work amounting to Rs. 43.51 Lacs.

ir No	HSD VI	And gate (near UHBVN office	Qty.	UOM	Date	C D E 02	Tatal Dat	A 4
1	6.6	Earth work in excavation in foundation, trenches etc. in all		100 Csim	Rate		Total Rate 4986.45	
•	0.0	kind of soils, not exceeding 2 mtrs. depth including dressing of	333 00	TOO Cann	1 100.10	33076	4900.45	4/620.60
- 1							·.	ĺ
		bottom and sides of trenches, stacking the excavated soil,					ĺ	
		clear from the edge of excavation and subsequent filling						
		around masonry in 15 cm layers with compaction, including						
		disposal of all surplus soil as directed within a lead of 30 mtrs.						
2	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal	71.00	Cum	403.10	340%	1773.64	125928.44
	40.00	size in foundation and plinth.	400.00		007.10			
3	10.90	Cement concrete 1:2:4 with stone aggregate 20 mm nominal	128.00	Cum	687.10	340%	3023.24	386974.7
		size for reinforced concrete work in footings, strips,						
		foundations, beams, rafts, pedestals and approach slabs of						
		bridges etc, excluding steel reinforcement but including		· ·				
		centring and shuttering, laid in position, complete in all				ļ		
		respects.(For work upto 1.5 metres below ground level).					1	
4	10.87	Cement concrete 1:2:4 with stone aggregate 20 mm nominal	236.00	Cum	1400.00	340%	6160	1453760.0
		size for reinforced concrete work for walls (10cm to 20cm						
		thickness) straight and curved excluding steel reinforcement						
		but including centring and shuttering, laid in position,						
	İ	complete in all respects						
5	10.95 (a)	(a) extra over Item Nos. 10.79 to 10.94, if 1:1 1/2:3 mix is	364.00	Cum	86.90	340%	382.36	139179.04
6	18.22	used, instead of 1:2:4 Cold twisted deformed (ribbed/ or stee!) bars for R.C.C.	186.00	Qtls	917.05	350%	4126.73	767570.85
O	10.22	works, where not included in the complete rate of R.C.C.		Quis	317.03	33070	4120.75	707570.00
		including bending, binding and placing in position complete.			ļ			
		including bending, binding and placing in position complete.		ļ	İ			
7	6.13 (a)	earth filling under floors with surplus soul, excavated from	686.00	100 Cum	343.40	300%	1373.60	9422.90
		foundation and taken only from outside the building plinth, in			İ			
		15 cm layers including ramming watering and consolidating						İ
		lead unto 30 metres						
8	18.12	Wrought iron and mild steel (using angles, flats, square bars,		Qtls	1040.35	325%	4421.49	17685.9
		tees and channels) ladders, grills, gratting frames, window					l	
		guards, iron doors open able or fixed stair case or parapet or					J	İ
		any other type of railing, gates and tree guards etc., including]	ĺ	
		cost of screws and welding rods or bolts and nuts complete		1				
		fixed in position	2504.00		0.55		24.20	70000 5
9	NS	Extra for exposed concrete finish (Derive from HSR 9.5)		Sqm	6.55	225%	21.29	76230.54
		Where smooth exposed concrete finish is desired, additional]		}		
	1	rate of 33-1/3 percentage shall be payable on item of labour				l		
	 	rates. Total						3,024,373.03
		Add- Escalation & tendered premium @ 37%			-			1,119,018.02
		Total						4,143,391.05
		Add- Contigency @5%						207,169.55
		Grand Total						4,350,560.61
	1	Say De	1	1	1	1		4.351.000.00

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N 17, Koroksheira.

Item No. 15.15 To consider & approve the Rough Cost Estimate for providing permanent fencing along the lawns & gardens of the Institute with revolving entry gates including CC pathways at NIT, Kurukshetra.

The lawns & gardens of the Institute need redevelopment. For proper maintenance & protection of lawns & gardens, it is proposed that a permanent fencing be provided with revolving entry gates at various location and CC path ways. The total length of fencing is about 1500 mtr. and length of path ways 2000 meter approximately. The cost estimate for the above provision works out to be Rs. 43.00 lacs approximately.

The B & WC may consider & approve the rough cost estimate for the above cited work for an amount of Rs. 43.00 Lacs.

		Fordo Silvenia the various la	wns of	NIT. H	Curuksh	etra		
Sr.No.	I PNO	For 10 Mtr Section Description	T	T	T	T	T	т
-	f	Description	Qty.	UOM	Rate	C.P. Feb 09	Total Rate	Amount
1		First class brickwork laid in cement sand mortar 1:6 in foundation and plinth.		Cum	393.45	400%	1967.25	2714.81
2	10.59	Cement Concrete 1:2:4 with stone aggregate 20mm nominal size in first storey upto 4 meters above plinth level.		Cum	621.85	340%	2736.14	985.01
3		Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders, grills, gratting frames, window guards, iron doors open able or fixed stair case or parapet or any other type of railing, gates and tree guards etc., including cost of screws and welding rods or bolts and puts complete fixed in position.		Qtis	1040.35	325%	4421.49	13264.46
4		Applying priming coat with metal primer on new steel or iron work including preparation of surface.	12.00	Sqm	3.15	125%	7.09	85.05
5	16.3	Painting two coats excluding priming coat with synthetic enamel paint in all shades on new wood work or matallic or plastered or concrete surfaces to give an even shade.		Sqm	9.40	125%	21.15	253.80
		Total						17,303.13
		Total length 1500 mtr. 1730 Rs. per meter						-

		Footpath in the various lawns	s of NIT	, Kur	ukshetr	a.		
		For 10 Mtr Section						
Sr.No.	HSR No.	Description	Qty.	UOM	Rate	C.P. Feb-09	Total Rate	Amount
1	6.6	Earth work in excavation in foundation, trenches etc. in all	1.00	100	1108.10	350%	4986.45	49.86
		kind of soils, not exceeding 2 mtrs. depth including		Cum		,		
		dressing of bottom and sides of trenches, stacking the		ĺ				
ĺ		excavated soil, clear from the edge of excavation and						
		subsequent filling around masonry in 15 cm layers with	1	Ì			-	
		compaction, including disposal of all surplus soil as directed					ļ	
		within a lead of 30 mtrs						
2	10.77	Precast cement concrete 1:2:4 with stone aggregate 20		Cum	942.50	340%	4147.00	3732.30
		mm nominal size in Kerbs and the like items, finished		ļ			[
		smooth with 6 mm thick cement plaster 1:3 on exposed					}	
		surface including from work, placing and fixing in position,	-	ļ	İ		Ì	
		complete at the ground level or in first storey.						
3	10.157	Providing and laying 50mm thick interlocking paver blocks	10.00	Sqm	300.00	0%	300	3000.00
		of all shapes and colours in design mix cement M-30 over		[İ		1	
		a bed of 25mm thick fine sand complete in all respect.	ĺ					
4	10.39	Cement concrete 1:4:8 with stone aggregate 40mm	1.00	Cum	403.10	340%	1773.64	1773.64
		nominal size in foundation and plinth.						
		Total						8,555.80
		Total length 1500+500 = 2000 mtr. 856 Rs. per mtr.						

Abstract Cost:

1997年 1997

B.M. in 1500 mtr, Length & to fix the M.S. Grill.: Path ways (CC) in length of 2000 mtr. : (i) (ii)

1500 X 1730

Rs. 25.95 lac.

2000 x 8**5**6 Rs. 17.12 lac.

Rs. 43.07 lac.

Executive Engineer NIT, Kurukshetra

Item No. 15.16 To consider & approve the Rough Cost Estimate for widening of Institute Road from Kirmich Road Gate to Hostel No. 4 (approx. length of 400 mtr.) at NIT, Kurukshetra.

The present width of the road is about 3.66 meter starting from Kirmich Road Gate to Hostel No. 4 for a length of 400 meter approximate. The inflow of traffic in this stretch of road is very heavy as this is connected with the main entry gate of the Institute from Kirmich Road Side. Therefore, it is proposed, that this stretch of 400 meter (approximately) be widened to a width of 7.32 meter. The rough cost estimate of the work is for an amount of Rs. 48.00 lacs.

The B & WC may consider and approve the Rough Cost Estimate for above cited work amounting to Rs. 48.00 lacs.

C No	(approx. length of 400 mtr.) at NIT,			ietra.		1,		
S.No.	HSR	Particulars	Quantity	UOM	Rates	Amount		
	4.0	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (I cement : 3 coarse sand) including the cost						
		of required centering, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement :3 fine sand) on exposed surfaces complete.						
	4.6.1	1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size).	162	Cum	4115.15	666654.30		
2	16.68	Providing and laying 60mm thick interlocking paver blocks of all shapes and colours in design mix cement M-30 over a bed of 25mm thick fine sand complete in all respect.		Sqm	345.45	298468.80		
3		Providing preparation of Sub-grade, including trenching, rough dressing of spoil, final dressing of earth, to give levels and camber watering and rolling with road roller and compacting the bed.		Sqm	33.90	115327.80		
4		Collection & carriage of coarse aggregate of size 63mm to 45mm (Grade-2) for sub base course from Deodhar or any approved quarry shall be either crushed broken stone. They shall be hard durable and from excess of flat along lid soft and disintegrated particles, dust and other objectionable matter. They shall be stacked 2mx1.5mx0.35m in size. For purpose of payment the volume of stacks will be worked out as per actual measurement and quality will be reduced by prescribed percentage and the reduced quality will considered as the quality supplied for purposed payment (MORTH specification No. 404.2.2 & Table		Cum	768.45	262041.45		
5		No. 400.7) respectively. Laying and consolidation of stone metal, soling coat to	341	Cum	192.55	65659.55		
		water bound macadam specification, carrying the metal from stack and spreading the binding material and consolidating the stone metal and binding material to proper camber with road roller, excluding the cost of templates barriers & lighting arrangement and Chowkidars.						
6		Collection & carriage of coarse aggregate of size 53mm to 22.4mm (Grade-3) for base course from Deodhar or any approved quarry shall be either crushed broken stone. They shall be hard durable and from excess of flat along lid soft and disintegrated		Cum	810.55	276397.55		
		particles, dust and other objectionable matter. They shall be stacked 2mx1.5mx0.35m in size. For purpose of payment the volume of stacks will be worked out as per actual measurement and quality will be reduced by prescribed percentage and the reduced quality will considered as the quality supplied for purposed payment (MORTH specification No. 404.2.2 & Table No. 400.7) respectively.						
7		Laying and consolidation of stone metal wearing coat, to water bound macadam specification, i/c making side towards, carrying the metal from stock and spreading to templates, screening and spreading the binding material and consoliding the stone metal & binding materials, i/c proper camber with road roller, excluding the cost of templates, barriers and lighting arrangement and Chowkidars.		Cum	192.55	65659.55		

AM 1/21-132 37 -5

	MORT &H specification including cost of bitumen.				
9	Providing and laying tack coat on black top surface with bitumen 80/100 grade, 50 KgP%Sqm complete as per	6804	Sqm	17.15	116688.60
	MORT &H specification including cost of bitumen.				
10	Providing and laying 50mm thick bituminous macadam with 60/70 grade bitumen content of 3.3.% by weight of mix complete in all respect as per MORTH specification latest revision clause 504 including cost of bitumen (60/70 grade). Heating the asphalt and aggregate by continuous batching of hot mix plant and spreading the same by paver finisher and consolidation with power	171	Cum	219.75	37577.25
	roller with necessary equipments, oil kerosene, fire wood, labour charges etc. complete with contractor's own machineries.				
11	Providing and laying 25mm thick mix seal surface i/c supply of grit of all sizes, mixing in hot mix plant, laying the mixed material with paver and compaction with	4520	Sqm	100.35	453582.00
	road roller complete in all respect as per specification including cost of bitumen 80/100 grade.	į			
12	Providing and laying 'B' type seal coat with Bitumen and fine aggregate mixing in hot mix plant, laying the mixed material and compacted with road roller complete in all respects as per specification including cost of bitumen 80/100 grade.		Sqm	36.85	166562.00
13	2.1.1 Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed: All kinds of soil		Per 10 Sqm	2073.60	705438.72
	Total				3311365.37
	Add escalation cost @37%				1225205.19
	Total				4536570.56
	Add Contingency @ 5%				226828.53
	Grand Total				4763399.08
	Say Rs				4800000.00

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Executive Engineer NIT, Kurukshetra Item No. 15.17 To consider & approve the Rough Cost Estimate for Providing & Installation of 16/20 meter High Mast Lights at Sports Ground and various other location at NIT, Kurukshetra.

The lighting arrangement in Sports Ground Complex and various other locations in the Institute is inadequate with poor illumination. The issue was discussed on 04.11.2011 in a meeting of Estate Section officials with Hon'able Director. It was decided that proper lighting arrangements be made at Sports ground, main Gates and important crossings in the Institute. Executive Engineer (Elect.), CPWD, Karnal has submitted a Rough Cost Estimate for an amount of Rs. 40.95 lacs for providing 8 Nos. high mast lights of 16/20 meters height.

The B & WC may consider & approve the Rough Cost Estimate amounting to Rs. 40.95 lacs.

<u>केन्द्रीय लोक निर्माण विभाग</u> करनाल केंद्रीय वैद्युत मण्डल

TEL & FAX-0184-2254952

E-mail:cpwdknl@hotmail.com

संख्या 20 (38)/क.के.वै.मं/2011-12/

दिनांक

सेवा में,

अधीक्षण अभियन्ता(वै0), चण्डीगढ केन्द्रीय वैद्युत परिमण्डल—I, के0 लो0 नि0 वि0 केन्द्रीय सदन 3rd तल सैक्टर—9, चण्डीगढ़।

বিষয:— Providing and installation of 16/20 mtr High Mast for Sports ground and hostel complex at NIT Kurukshetra.

उपरोक्त विषय के सन्दर्भ में उपरोक्त कार्य का मात्र रू० 40,95,000/-- का प्रारम्भिक अनुमान आपके कार्यालय को जांच एवं सम्बन्धित अधिकारी से प्रशासनिक स्वीकृति एवं खर्चा मंजूरी प्राप्त करने हेतु संलग्न है।

संलग्न : उपरोक्त।

sa-

कार्यपालक अभियन्ता(वै०), करनाल केंद्रीय वैद्युत मंडल, केंoलोर्जने0वि०, करनाल।

प्रतिस्तिषि :
The Chairman (E&M), NIT, Kurukshetra for information.

a. कार्यपालक अभियन्ता, करनील केन्द्रीय मण्डल, केलोनिवि, करनाल को सूचनार्थ ।

EXILY

A/12/11

कार्यपालक अभियन्ता(वै०)

State

: Haryana

Division

: KCED, Karnal

Branch: E&M

Sub Division: KCESD, Karnal

NAME OF WORK: Providing and installation of 16/1/20 mtr High Mast for sports

ground and hostel complex at NIT Kurukshetra.

Head of Account :- Deposit Work

This Preliminary Estimate has been framed by Er. Narender Kaushal, Executive Engineer (Elect.), Karnal Central Elect. Division, CPWD, Karnal for the probable cost of Rs. 40,95,000 /- including 5% contingencies.

REPORT

HISTORY: - As per the requirement of NIT Kurukshetra and during the visit of SE(E) on 1/12/2011 in the O/o Chairman (E&M) NIT (KKR), it has been decided that sports ground and hostel complex should be proper illuminated. Accordingly this preliminary estimate amounting to Rs. 40,95,000 /- including 5% contingencies has been prepared obtaining Administrative approval & expenditure sanction from the Competent Authority.

DESIGN & SCOPE :-

The following provisions have been kept in the estimate.

1. 16/20 mtr High Mast poles with fittings & necessary L.T. Cabling & earthing etc.

Through contract. METHOD -

Market Rates. RATES

3 Months. TIME

Rs. 40,95,000 /- including contingencies. COST

> KARNAL CENTRAL ELECT DIVISION CPWD, KARNAL

PRELIMINARY ESTIMATE

Name of work: Providing and installation of 16/20 mtr High Mast for Sports ground and hostel complex at NIT Kurukshetra.

S.No.	Description of Item	Qty.		Rate	Unit	Amount
1	S/I/T/C of 16/20 mtr high mast light suitable for 6 luminaires complete with RCC foundation, foundation bolts, control panel complete as					,
	reqd	. 8	set	450000.00	set	3600000.00
2	S/I/T/C of L.T Panel i/c L.T. cables & earthing etc as reqd.	1	job	300000.00	job	300000.00
		Tot	al			3900000.00
	Add 5% Contingencies					195000.00
	Total					4095000.00
				JUQ.	1099	W)
				EXECUTIVE ENGIN		ISION
				CPWD, KARNAL	ELECT DIV	ISION

Item No. 15.18 To consider & approve the Cost Estimate for Renovation of Labs in Electrical, Mechanical and Civil Engineering Departments (Under TEQIP-II) at NIT, Kurukshetra.

Refurbishment work of laboratories of Electrical, Mechanical & Civil Engineering Departments are required to be executed under TEQIP-II grant. The maximum grant allocated for this work is Rs. 37,50,000/-. The co-ordinater TEQIP-II has provided a requisition for renovation of laboratories received from said departments.

The B & WC may consider & approve the Rough Cost Estimate amounting to Rs. 37, 50, 000/-.

Co	ost Est	imate for Renovation of Labs in Electrical, Mechanic	al an	d Civ	il Engino	oring at N	IT Kuruk	hotro
		Abstract of Cost - Civil works (BASED ON HSR-1988 & LATEST	SANC	TIONE	D PREMILI	MWEE 22	11, NUIUK	snetra
Sr. No.	HSR	Particulars		UOM		C.P	Total Rate	Amount
1	14.89	Providing and fixing vitrified tiles of size 600 x 600 mm of		00	Traco	0.1	Totalitate	Amount
		approved make in flooring laid in any pattern as specified over						[
		base of 20mm thick cement coarse sand mortar 1:3 and jointed		ĺ	ĺ			l
		with white cement slurry mixed with pigment to match the shade		1	1		Ì	1
		to tiles. Note:- Tile shall be of premium quality (first			ļ	-	ł	1
		quality) of reputed manufacturer like NITCO.	1	ĺ			}	1
		KAJARIA,SOMANI,ORIENT & JOHNSONS.		ĺ	1			
		Size of the tile 60 x 60 cm. FR=924.30	1649	Sam	924.30	-15%	705.66	1295545.00
2	14.92	Providing and fixing first class plained coloured glazed tiles (of		Sqiii	924.30	-15%	785.00	1295545.00
		Orient / Somany make) of size 200 x 300 mm with minimum						1
		thickness 5mm in skirting and dado on 12mm thick cement plaster						
		1:3 (1cement :3coarse sand) the back of the tiles to be buttered		}				
		with arev cement						
	(a)	Size of ceramic Glazed tiles 200x300mm FR=501.75	484	Sgm	501.75	. 0%	501.75	242847.00
3		Providing & fixing false ceiling with grooves with 12mm to 15mm			800	10%		1323520.00
		thick 600mm x 600mm best quality mineral perforated fibre tiles						1020020.00
		of approved make fixed on M.S steel runners frames i/c cost of	1					-
		screws angles, cleats, rowel plugs i/c hangers with tapping and						
		painting etc complete in all respect as per approval of Engineer-in-					,	
		Charge. (Rate including ceiling premium) FR=800		٠,				-
		The same of the sa						
4	17.95	Providing and fixing aluminium work for doors, windows,						
		ventilators, and partitions with extruded built up standard tubulars						
		sections / appropriate Z sections and other sections of approved	1					
ĺ		make conforming to IS: 733 and IS: 1285, fixed with rawl plugs		1				
İ		and screws or with fixing clips or with expansion hold fastners ic/						
ļ		necessary filling up of gaps at junctions at top, bottom and sides						
		with require PVC / neoprene felt etc. Aluminium sections shall be						
		smooth, rist free, straight, mitred and finished mechanicium						
		wherever required including cleat angle. Aluminium snap beading				-		
		for glazing panelling, CP brass/ Stainless screws will complete as						
Į.		per architectural drawings and the direction of Engineer-in-change.		ĺ		- 1		
		Glazing & panelling to be paid for seprately.						
ļ			400		0.40.00			
5	17.07	For fixed portion.	400	Kg	242.30	15%	278.65	111458.00
3	17.97	Providing and fixing 12mm thick prelaminated particle board flat						
		pressed three layer or graded I type II in paneelling fixed in						
		aluminium doors. Windows shutters and partition frames with C.P.						
<u> </u>	(b)	brass/stainless steel screws etc. complete Pre-laminated particle board with decorative lamination on both	105	Sam	780.30	5%	810.22	151573.00
	(0)	side.	100	oqm	100.30	5%	0 19.32	1515/3.00
		Civil Total						3124943.00
		Add Provision of E.I. @ 20%						624988.60
		Grand Total						3749931.60
		Say Rs.						3750000.00

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Executive Engineer NIT, Kurukshetra

New?

TEQIP

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA-136119

TEQIP/452

Dated: 9.8.2010.

Please provide 18 months procurement plan for refurbishment (Minor Civil Works) in the enclosed proforma. The tentative allocation for this component is about Please refer Civil Works Manual at NPIU website Rs. 37.5 lacs maximum. www.npiuwb.nic.in

Further, please also provide the 18th months procurement plan for furniture in the enclosed proforma for which the tentative allocation is Rs. 25 lacs.

The above information may please be sent by 11th August, 2010 positively.

Encl: A/a.

Coordinator, TEQIP

Dean(E. EM&C)

P/I (EQG) & E.O.

and study

Kendly Are: The above NPIU websile

marked at A' and discuss with the undersegned on

11.08-10 at 11:00 AM for finalization of the proposal.

ECE-2

Item No. 15.19 To consider & approve the Rough Cost Estimate for preparation of Institute Master Plan of NIT, Kurukshetra.

The Institute Master Plan is required for future planning of various institutional/residential buildings & their location etc.

Central Public Works Department (CPWD) was requested to supply preliminary estimate for preparation of Institute Master Plan. Executive Engineer, CPWD, Karnal, Central Division, CPWD, Karnal has supplied a preliminary estimate for an amount of Rs. 31.00 lacs.

The B & WC may consider & approve the Rough Cost Estimate amounting to Rs. 31.00 lacs.

निर्माण विभाग लोक केन्द्रीय मण्डल कालोनी, सुभाष 448, करनाल

संख्या- २०(१४२)/यो.शा./क.के.मं/२०११/ ४०५५

दिनांक

सेवा में,

The Director, NIT, Kurukshetra

Preparation master plan of NIT, Kurukshetra.

संदर्भ :

आपके कार्यालय पत्र संख्या CC/1579/6670 Dt. 28.11.2011.

महोदय,

उपरोक्त कार्य का विस्तृत प्राक्कलन जिसकी लागत रूपये 31,00,000/- है आपके कार्यालय से प्रशासनिक स्वीकृति एवं व्यय मंजूरी प्राप्त करने हेतू संलग्न है।

आपसे अनुरोध है कि उपरोक्त स्वीकृति जल्दी से जल्दी भेजें ताकि अग्रिम कार्यवाही की जा सकें। प्राक्कलन की एक प्रति भी प्रशासनिक स्वीकृति पत्र के साथ संलग्न करें।

भवदीय,

संलग्न : उपरोक्तानुसार

कार्यपालक अभियंता करनाल केन्द्रीय मंडल के.लो.नि.वि,करनाल

🌡 ता, च.के.परि, के.लो.नि.वि, चण्डीगढ को सूचनार्थ। र्यता, कुरुक्षेत्र केन्द्रीय उप-मण्डल, के.लो.नि.वि. कुरुक्षेत्र को सूचनार्थ।

कार्यपालक अभियंता

Central Public Works Department

	Central Public Works Department									
1	Name of Work	: Preparation master plan of NIT, Kurukshetra.								
	Major H	Minor Head Detailed Head								
		This preliminary estimate has been framed by Sh. Iqbal Singh, Executive Engineer, Karnal Central Division, CPWD, Karnal for Rs. 31,00,000/-								
9		REPORT								
	History This preliminary estimate amounting to Rs. 31,00,000/- has been framed to the probable rough cost of above mentioned work for accord of A/A & competent authority. The requisition for the above said work has been reconciled to Client Department vide letter No. CC/1579/6670 Dt. 28.11.2011 and Selection NZ-1 Chandigarch submitted the details for the estimate.									
	1. To provide digital site survey plan. 2. To provide location plan, measured drawings etc. 3. Engagement of experts for landscape, transport planner, services congraphic design etc. 4. Cost of presentation of drawings, power point presentation etc. 5. Preparation of drawing i.e. drafting of basic drawing from the sketches, in survey & revision required after discussion with client									
	Specification	As per CPWD Specification 2009 vol I to II with upto date correction slip.								
	WC Establishment	Shall be met out of contingencies.								
	T & P Shall be arranged by the contractor.									
	Land	Available.								
	Rate	As per PAR-2007								
	Method	By contract after call of tender.								
	Time	Six months								

Executive Engineer Karnal Central Division CPWD, Karnal

Part of

Cost

Rs. 31,00,000/-

137-

Appendix-50 (Reference – Para 3.6.3) LETTER OF ACCEPTANCE OF DEPOSIT WORKS

(To be issued to the elient department)

Me Director MIT Knowshelm.

Sub Execution of Deposit works.

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Preferation of Master blan of MIT (Indicate name of work)

The above work can be taken up by the CPWD as a Deposit work under Para 118-119 of CPWD Code, subject to the following:

Full estimated cost of the work as worked out by CPWD including departmental charges will have to be
deposited by the client department before the work is taken up for execution. No interest will be paid by
CPWD to the client department for such deposits.

The client department should hand over vacant possession of land/site to CPWD. CPWD may, if so required,

take responsibility for demolition/disposal of existing buildings/structures.

CPWD does not bind itself to complete the work within the estimated cost. If additional fund's are required, the same will have to be provided by the client department. Necessary revised estimate will be submitted as and when required.

4. Any dispute arising out of the operation of the contract (s) for the subject work will be subject to arbitration as provided for in the contract agreement, CPWD will defend the arbitration proceedings as best as it can and get the arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department.

Funds for making payment of all amounts which may be decreed by a Court of Law, Tribunal or by Award of an arbitrator in relation to the deposit work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or arbitrator. Such payments will be in addition to

the payments made to the contractors for execution of work.

After receipt of A/A & E/S from the client department, the CPWD will prepare and submit various detailed architectural drawings and service plans to local bodies whose approvals are required before taking up the construction work. These local bodies are independent organization and CPWD has no control over them. These Local bodies taken their own time for approving the Plans. The time required to get such approvals is not included in the time of construction indicated in the estimate. Although CPWD will make all efforts to get such approvals early, it may be necessary for the client department also to pursue with Local Bodies for early approval.

The CPWD has no funds of its own for investing in the work. The client should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage/abandonment of

work including claims of contractors for compensation/damages.

5. The client department will help CPWD in - a) providing sits for labour hots for the contractor's labour free of cost, b) providing free access to contractor's materials and labour to the site of work. C) providing electricity contraction for execution of work on payment of usual charges, and d) sanction and release of load from the concerned electricity board/authority.

OPWD may at its discretion allow the clients to deposit the funds in installments. In such cases 33 1/3% of the estimated cost should be deposited as advance. Thereafter, expenditure incurred should be reimbursed in full through monthly bills. The initial deposit of 33 1/3% would be retained for adjustment against the last portion of the estimated expenditure.

10 In cases where funds are deposited in installments, CPWD will not be responsible for any delay, damage, stoppage of work, claims of contractors for compensation/damages etc. due to non-receipt of funds in time.

You are requested to convey acceptance of the above to enable this office to proceed further

Yours faithfully,

Cowner Course Colors Cown Course Colors COWN, with Course Colors WAS MARCH Colors (1914)

Roug	Rough Estimate for preparation of Master plan of NIT Kurukshetra						
S. No.	. Item	Estimated Amount					
1	To provide digital site plan showing boundaries, contours at suitable intervals, existing boundaries. Physical features including any existing roads, paths, Trees, existing structures, existing service and utility lines and such lines to which the proposed service can be connected.	Rs.3, 50,000.00					
2	To provide location plan, measured drawings and photographs of existing Building and spaces with relevant details, existing services and common outlets to which proposed services can be connected.	Rs.4, 50,000.00					
3.	Engagement of experts such as Landscape Architect Transport Planner, Services Consultant, Graphic Design & Signage including the cost of travel to and fro In connection with preparation of master plan.	Rs.15, 00,000.00					
4.	Cost of presentation drawings, power point Presentation, walkthrough, model and detail Drawings prepared for the purpose of development of design and for the purposes of making presentation.	Rs.5, 00,000.00					
5.	Preparation of drawings i.e. drafting of basic drawings from the sketches, input from the survey and various revision of drawing at conceptual stage and revision required after discussion with client.	Rs 1, 50,000,00					
6.	To furnish reports on soil conditions and test as required by the Architect/Landscape Architect	1 Rs.1, 50,000.00					
	TOTAL	Rs.31,00,000.00					

Assistant Engineer(P)

Executive Engineer
Karnal Central Division
CPWD, Karnal