



SCHOOL OF PLANNING AND ARCHITECTURE

REF: NEX/CCG/03BWC/SPA/17

15th
08th December 2017

TO ALL MEMBERS OF BUILDING & WORKS COMMITTEE OF SCHOOL OF
PLANNING AND ARCHITECTURE, NEW DELHI

SUBJECT: MINUTES OF 03rd MEETING OF BUILDING & WORKS COMMITTEE
HELD ON WEDNESDAY, 29th NOVEMBER, 2017 AT 12.00 NOON.

Sr

I am directed to forward herewith the Minutes of the 03rd Meeting of Building & Works Committee of School of Planning and Architecture, New Delhi, held on Wednesday, 29th November, 2017 at 12.00 noon in the Director's Room of SPA.

With Kind Regards,

Yours faithfully,


(Prof. Dr. Sewa Ram)
Registrar - Secretary

1	Prof. Dr. N. Sridharan, Director (Additional Charge) School of Planning and Architecture, New Delhi - 110002	5	Shri R. S. Rao CPWD, Office of Superintending Engineer (Civil), Delhi Central Circle V, East Block-IV, Level-IV, R.K. Puram, New Delhi-110066
2	Dr. B. K. Bhadri Assistant Educational Adviser (DL) Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi-110001	6	Shri B. R. Pasi CPWD (Electrical), East Block-III, Level-VII, R.K. Puram, New Delhi-110066
3	Prof. Dr. Nitin Dindorkar Deptt. of Civil Engineering, Maulana Azad National Institute of Technology Bhopal-462016	7	Prof. Dr. Sewa Ram Registrar - Secretary School of Planning and Architecture, New Delhi-110002
4	Prof. Dr. V. K. Paul Dean, Planning & Development & Professor of BEM School of Planning and Architecture, New Delhi-110002		

MINUTES OF 03rd BUILDING & WORKS COMMITTEE MEETING OF THE SPA, NEW DELHI HELD ON 29th NOVEMBER, 2017 AT 12.00 NOON IN THE DIRECTOR'S ROOM OF THE SCHOOL.

Present:

- | | | |
|----|--|----------------------|
| 1. | Prof. Dr. N. Sridharan
Director (Additional Charge) | Chairman |
| 2. | Dr. B.K. Bhadri, AEA
MHRD | Member |
| 3. | Shri B.R. Pasi,
E. E. (Electrical), CPWD | Member |
| 4. | Shri Subhash Chandra
(In place of Shri R. S. Rao, S.E. CPWD) | Member |
| 5. | Prof. Dr. V. K. Paul
Professor of Building Engineering & Management | Member |
| 6. | Shri R. K. Kaushal
Chief Architect, CPWD | Special Invitee |
| 7. | Ms. Pallavi Madaan
Deputy Architect, CPWD | Special Invitee |
| 8. | Prof. Dr. Sewa Ram
Professor of Transport Planning | Registrar- Secretary |

Prof. Dr. Nitin Dindorkar, Head, Civil, NIT, Bhopal regretted his inability to attend the meeting.

The Chairman welcomed all the members and called the meeting to order.

03 BWC ITEM NO. 1: TO CONFIRM THE MINUTES OF 01 MEETING OF THE BUILDING & WORKS COMMITTEE OF THE SCHOOL HELD ON 22nd JUNE, 2017.

The Committee was apprised that this item was placed before 02 BWC Meeting held on 24th October, 2017 but was deferred. Therefore, this was placed before 03 BWC Meeting for consideration and confirmation.

The Minutes of 01 BWC Meeting held on 22nd June, 2017 were circulated to all members on 06th July, 2017 with the request to forward their comments, if any. The comments were received from Dr. B.K. Bhadri, AEA, MHRD vide Letter No. 3-16/2016-S.VI dated 24th July, 2017.

The observations of Dr. Bhadri are as mentioned below:

1. Any agenda item wherein the financial implications are involved should mandatorily be approved by FC/BOG.

All agenda items should comply with the following:

- a) GFR Provisions (now GFR, 2017)
 - b) Mandatory e-tendering and upload the same on the School's website
 - c) Purchasing of goods and articles through Government e-Marketing Place (GeM) only i.e. DGS&D rate contracts
 - d) The CVC guidelines to be followed.
2. To expedite the signing of MoU between SPA and CPWD on priority to enable the CPWD to take up the construction activities at the new site (Vasant Kunj) immediately.
3. The Director and Registrar of the School were specifically requested to ask their administration and Finance branch officers to go through GFR, 2017 (GFR 229, 230 & 238) which are very important for autonomous bodies.

The observations at Sl.No. (1) and (3) were noted for compliance.

With regard to Sl.No. (2), MoU has been signed between SPA and CPWD on 29th August, 2017. The Layout Plan has already been prepared by CPWD and a presentation has also been made in 03 BWC Meeting held on 29th December, 2017. The Committee recommended the same for placing before BOG for its approval.

The Member from MHRD further advised that (i) the Provisions contained in Statute (13) of SPA Act viz., 'Powers and Functions of Building and Works Committee' should be complied with while preparing the agenda item.

(ii) A certificate should be obtained from the concerned Head of the Department/Section stating that the agenda item complies with the provisions of SPA Statutes, GFR Provisions and CVC Guidelines before placing the same in BWC.

With the above observations, the Minutes of 01 BWC Meeting held on 22nd June, 2017 were confirmed.



03 BWC ITEM NO. 2: TO CONFIRM THE MINUTES OF 02 MEETING OF THE BUILDING & WORKS COMMITTEE OF THE SCHOOL HELD ON 24th OCTOBER, 2017.

The Committee was apprised that the Minutes of 02 BWC Meeting held on 24th October, 2017 were circulated on 20th November, 2017 to all members of the Committee. No comments were received on the Minutes.

The BWC, after detailed deliberations, confirmed the Minutes of 02 BWC Meeting held on 24th October, 2017.

03 BWC ITEM NO. 3: TO REPORT ACTIONS TAKEN ON THE MINUTES OF THE 02nd MEETING OF THE BUILDING & WORKS COMMITTEE OF THE SCHOOL HELD ON 24th OCTOBER, 2017.

1. 02 BWC Item No. 1: The Minutes of 01 BWC were placed in the Meeting and confirmed.
2. 02 BWC Item No. 6 viz., proposed works for the residential complex in Maharani Bagh with the budget estimate of Rs. 9,16,434/- , NIT is being uploaded in E-tender website. The work of implementation of E-Tendering in SPA-D is awarded to M/s. ITI Limited and the work is under progress.
3. With regard to 02 BWC Item No. 7 viz., providing and fixing of brick tile cladding on walls at Maharani Bagh SPA Complex , NIT is being uploaded in E tender website. The work of implementation of E-tendering is awarded to M/s. ITI Ltd. and the work is under progress
4. With regard to 02 BWC Item No. 11 viz., Upgradation of Type -VII flat for creation of VIP Guest House as per revised specifications and scale of amenities, the estimate of the proposed flat is being revised as per standards of Type-VII flat and shall be put up later on.
5. With regard to 02 BWC Item No. 14 viz. Appointment of Consultant for life and fire safety for the Planning and Architecture Buildings of SPA, Delhi, a letter has been sent to CPWD and also to DFS for inspection of shortcomings in SPA-D buildings for compliance to statutory requirements.
6. With regard to 02 BWC Item No. 16, (Reporting Item: 02 BWC Item No. II) viz., implementation of E-tendering/E-procurement/E-Auction solution (Tender Wizard) in SPA, the work of implementation of E-tendering has been awarded to M/s. ITI Limited and the work is under progress
7. With regard to 02 BWC Item No. 17 (Reporting Item: III) viz., Repair of Boundary wall of Planning Building, the work of repair of boundary wall has been started by ITPI and the work is under progress.



03 BWC ITEM NO. 4: REVIEW OF THE PROGRESS OF VASANT KUNJ CAMPUS OF THE SCHOOL.

A presentation was made by the Chief Architect, CPWD. The Layout Plan presented by CPWD was in conformity with the Minutes of the Meeting of Standing Finance Committee (SFC) at its Meeting held on 03rd May, 2017 at MHRD. CPWD has undertaken work as per MoU and has developed proposal as a part of pre-construction responsibilities viz., complete design services of the project. The layout plan complied with area's requirements of approximately, 87000 m as per SFC with a provision for future expansion of approx.. 115000 m. The Layout Plan details were explained to the members of the BWC by CPWD. After discussions, the Layout Plan was accepted and recommended for final approval of BOG. The Layout Plan recommendation is in respect of DUAC submission and approval of other statutory authorities. The detailed design of individual blocks of the building is to be taken up in the next BWC.

Since the construction process at Vasant Kunj has already been delayed, it was decided in BWC that the recommendations of BWC in respect of Layout Plan prepared by CPWD shall be approved by the Chairperson of BOG as recommended by BWC. The same will be reported in the next Meeting of Board of Governors. Any observations made by BOG, if found suitable, shall be noted for compliance. Upon concurrence of Chairman, BOG on Layout Plan, CPWD shall be informed to proceed with approvals from statutory authorities. CPWD shall also be requested to get work on infrastructure started by 17th December, 2017.

The School shall request the CPWD to send a Letter requesting for fund release, so that the School can write to MHRD requesting for the same.

The Representative from MHRD expressed that the building design shall be iconic and should reflect the prestige of an Institution of National Importance.

The above item was circulated as Part Minutes of BWC to all members on 30th November, 2017.



03 BWC ITEM NO. 5: EMERGENCY WORKS UNDERTAKEN.

It was brought to the notice of the Committee that a small fire broke out in one of the rooms in girls hostel at ITO and therefore certain works had to be undertaken on an emergency basis.

Some important works were identified to be executed on an emergency basis. Approval for the same was obtained from the Director telephonically and works undertaken as per GFR /CPWD norms.

The recommendations of internal auditor is recorded on relevant files of cases.

03 BWC ITEM NO. 5.1: NAME OF WORK:- MISCELLANEOUS ELECTRICAL/CIVIL WORKS AT ITO GIRLS HOSTEL SPA NEW DELHI.

03 BWC ITEM NO. 5.2: NAME OF WORK:-REPLACEMENT OF ALL DINING TABLE TOP/DAMAGES GLASS/WIRE MESS, AND MAKING OF STORAGE CABINET IN ITO HOSTEL/MESS AREA.

03 BWC ITEM NO. 5.3: NAME OF WORK: WHITE WASHING, PAINTING, REPLACEMENT OF GRANITE TOP OF MASS KITCHEN AND OTHER MISCELLANEOUS CIVIL WORKS IN ITO MESS AREA

03 BWC ITEM NO. 5.4: REPLACEMENT OF OVERHEATED AND DISTRESSED AUTOMATICS CHANGE OVER (SITC OF 2 NO. POWER CONDUCTOR 4 POLE L & T MAKE ALONG WITH FITTINGS) IN LT PANEL OF THE ITO GIRL'S HOSTEL

03 BWC ITEM NO. 5.5: NAME OF WORK: REWIRING AND ADDITIONAL SWITCH/SOCKET POINT IN ROOMS OF ITO GIRLS HOSTEL OF SPA NEW DELHI.

03 BWC ITEM NO. 5.6: NAME OF WORK: MISCELLANEOUS URGENT ELECTRICAL WORKS AT ITO GIRLS HOSTEL SPA NEW DELHI.

03 BWC ITEM NO. 5.8: NAME OF WORK: - MISCELLANEOUS WORKS AT THE MB HOSTEL IN THE TOILETS AND OTHER LOCATIONS.

The Committee members called for all relevant files of cases and examined schedule of works. The Committee members from CPWD also examined work approval procedure, formation of Standing Committees, justification statements and seeking telephonic approval from competent authority as an emergency work. Committee members also examined the quotations received and final justification for award of work to L1 contractor in each case. The Committee found the cases in order.



The 03 BWC Item No. 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 and Item No. 5.8 (Appendix-03 BWC/I) were taken up together for discussion and the following observations were made by the Committee:

1. The issuance of work was in order.
2. The School should constitute a Standing Committee which will examine the quality of work done as per scope defined
3. Final payments should be made after recommendation of the Standing Committee
3. All the electrical works undertaken by the School should be counter signed by the Electrical Engineer of CPWD.
4. The Report of the Standing Committee should be placed before the competent authority of the School at the time of making payments.

03 BWC ITEM NO. 5.7: NAME OF WORK: RENOVATION AND UP GRADATION OF THE KITCHEN CHIMNEY OF CANTEEN OF PLANNING AND ARCHITECTURE BUILDING

Details of design and estimates were required to be prepared and put up in next BWC.

03 BWC ITEM NO. 6: STRUCTURAL CONDITION OF THE ITO GIRL'S HOSTEL

The Representative of MHRD observed that this item should not have been put up in BWC. CPWD members observed that SPA should approach government agencies (IIT, Delhi, IIT Roorkee etc. and get a report to this effect.

03 BWC ITEM NO. 7: REPORTING ITEMS

1. Assessment of Planning Building by the CPWD engineers:

CPWD engineers from civil and electrical departments visited the School's Planning buildings. They were requested to propose improvements in respect of drainage, electrical system, fire safety requirements etc. in accordance with the decisions taken in earlier BWC meeting wherein it was decided that CPWD should be asked to submit a proposal for undertaking the work.

2. Conducting of Fire Drill

A Fire Brigade crew was invited to the School's Planning Building under the command of the Deputy Fire Chief Officer. The crew made a presentation talk to the audience of around 170 students, staff and faculty of SPA. The purpose of the talk was to make the occupants more aware of their actions in case of fire.

During the presentation, Dy. CFO was shown the building premises and observations were sought with regards to the fire safety. He assured to help in updating the No Objection Certificate. Some proposals were also discussed to comply with the requirements. This included the addition of one additional staircase in Planning Building and two for Architecture Building. It was advised by the Dy. CFO that SPA-D should write to Delhi Fire Service for a formal inspection to give specific requirements for NOC that can be complied with for which CPWD has already been requested.

BWC noted (1) and (2) above.

03 BWC ITEM NO. 8: ACTION TAKEN REPORT

The Committee noted the Action Taken Reports of Reporting Items from (1) to (14) (Appendix-03 BWC/II).

The Meeting ended with Thanks to the Chair.

N. Chhokar

J. Singh

Appendix - 03 BWC / I

03 BWC ITEM NO. 5: EMERGENCY WORKS UNDERTAKEN.

Background:

On the morning of 26th October 2017, a small fire was reported in the ITO Girl's Hostel at 6 AM in the room no. IF-23. Though, the fire was controlled by the Fire Brigade in less than 45 minutes but the room was completely gutted. Apparent reason for the fire was short circuit. After the incident, the hostel residents and other students of the School gathered at the Planning Campus and started protesting against the lack of proper infrastructure in the Hostel(s). By the end of the day, it took the shape of a Strike.

A Committee was constituted to prepare the report of the fire and various Committees of the faculty members were set up to assess the need for immediately addressing the grievance of the students with regards to the infrastructure. The Committees observed that electrical system was greatly overloaded. Although the rooms were only for single occupants originally and later upgraded to twin sharing during the last repairs in late 1990s but the occupancy was enhanced to triple sharing in the recent years. Over these years, since late 1990s, there is already a considerable increase in demand of the electrical load due to more gadgets that students use for their academic work and the third occupant has made matters worse. It has been observed that each student was using at least 2-3 multi plug outlets on 5 amp sockets. This has been a catastrophic for the electrical system. The repeated complaints of failure of electrical points was therefore expected to happen.

Students had also complained about the fans not being proper. It was observed that some of the fans were very old, very heavy and many wall mounted fans had signs of the overheating. These identified fans needed replacement urgently.

The building of ITO Girl's hostel was constructed in mid 1960s and was under significant structural distress when it was structurally retrofitted in 1990s after concrete spalling was observed in large portions of the building. The repair and rehabilitation was executed by the CPWD and the specifications for structural repair solutions were formulated by the faculty of the Department of Building Engineering and Management of the School.

Now, after the students strike, the faculty of the Department of Building Engineering and Management conducted the following surveys to identify the repair works necessary for the building:

- a. Visual inspection survey and structural condition, and
- b. Detailed analysis using Rebound Hammer tests to understand the extent of damage.

Based on the Visual inspection survey (report appended) the conclusion was arrived that the building in the current form was stable for the time being, except for few rooms, but the detailed investigation was needed due to occurrence of spalling in some critical locations, especially on the top floor slabs.



During inspections it was observed that the general upkeep and conditions of the toilets, mess (at ITO and MB Hostel) and some common areas was not good. It required not only painting, tile work repair, replacement of fitting fixtures etc. on emergency basis. It was also the demand of the striking students. It is important to mention here that these works were undertaken once in two years but no such works were undertaken for over three years.

In view of the facts stated above, it was decided that the following works needed on emergency basis:

- a. The entire floor of the room on fire as well as the floor above required painting, plastering in the room (affected by fire), front of the building required paint due to smoke, painting in other common areas which were in extremely shabby condition, minor repair for location of coolers etc.
- b. The entire block (started with two floors affected by fire) had the damaged electrical wiring and required changing.
- c. The other block that also had complaints of the electrical switches failing and the Committees observed that the electrical system was distressed, to be undertaken for rewiring (also considering the onset of the winter wherein some students might use appliances without notice of the authorities).
- d. Painting of mess which was indeed in bad condition. In addition the furniture was also in dire need for some repair.
- e. Miscellaneous works in toilets and other places in the MB Hostel.

With the above mentioned background, Emergency Works were undertaken.

Method of Undertaking Emergency Works:

Following method was used for undertaking the Emergency Works in accordance with the GFR:

- a. Preparation of the estimates
- b. Collection of spot quotations under the permission given by the Dean (Planning and Development) to the AE (Civil)
- c. Formulation of the Standing Committee with the approval of competent authority (the Acting Director) to open the quotations and recommend the agency. The role of the Standing Committee was limited to the Emergency Works only. The Standing Committee consisted of the following Faculty members:
 - i. Sh. Shuvojit Sarkar.
 - ii. Sh. Bhaskar Soudagini.
 - iii. Sh. Salman Khursheed.

d. Preparation of justified amount based on the DSR rates.

e. Taking observations of internal auditor/ Accounts and Budget section before recommending the appointment of the agency to the Competent Authority (Acting Director) for approval.

Based on the method mentioned above and in the light of the Background stated above, the following Emergency Works were undertaken.

03 BWC ITEM NO. 5.1: NAME OF WORK:- MISCELLANEOUS ELECTRICAL/CIVIL WORKS AT ITO GIRLS HOSTEL SPA NEW DELHI.

Head of Account: - Repair/maintenance of Planning Building.

As per visual inspection to restore the rooms, including electrical/civil works was framed based on DSR 2016 and the same was approved from the competent authority of SPA. Both estimate are enclosed at Appendix - 03 BWC/III & Appendix - 03 BWC /IV.

Scope of Work:-Civil work:-Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters, Renewing glass panes, with putty and nails wherever necessary including racking out the old putty, Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete, Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface Water thinnable cement primer, Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work/ one or more coat on old work, Painting with synthetic enamel paint of approved brand and manufacture of required colour, Finishing walls with water proofing cement paint of required shade, Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level, Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc, Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers, Dismantling old plaster or skirting racking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead, Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.

Electrical Works:-WIRING IN STEEL & PVC CONDUIT, Wiring for light point/fan point/exhaust fan point/ with 2.5sq.mm/ 4sq mm PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit with modular switch, modular plate, suitable box etc as required, Supplying and fixing PVC box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size Modular Sheet in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required, Supplying and fixing following /Switch socket on the existing switch box/ cover including connections etc. as require, Supply and installation & commission of new ceiling fans high speed Calling fan / Crompton /Havells, wipro, Providing & Fixing for 16/Amp 32 Amp MCB rating 240/415 Volte "C" Curve ISI miniature circuit breaker suitable for load, Supply and fixing 10 module stepped type electronic fan regulator on the existing modular plate switch box including connection as required, Tube light with complete Fitting 4 fit along with Installation, Tube light with complete Fitting 2 fit along with Installation.

- 10 -
- 57 -

Ind

Estimated Cost:-

For Civil Works- 1, 54,327/-
For Electrical works-4, 94,244/-

Justification Amount :-

For Civil Works- 1, 74,756/-
For Electrical works-5, 04,129/-

Work ordered Cost:-

For Civil Works- 1, 44,682 /-
For Electrical works-4, 89,679 /-

Name of agency: -Civil:- M/s Bharat Construction Company.

Electrical:- M/s Creative Associate.

Status of work: -Civil - Work is under progress.

Electrical - Work has been completed.

The work has been completed as per CPWD specification.

Total Cost of Work done: - Billings are under progress.

-11-

-60-

Name of work - Miscellaneous civil works at ITO Girls Hostel SPA New Delhi

Sl. No.	Description of Item	Unit	Quantity	Rate	Amount
12.75/249	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.				
14.5.2/242	1. With cement mortar 1:4 (1 cement : 4 fine sand) 14.5 Renewing glass panes, with putty and nails wherever necessary including racking out the old putty.	sqm	35	363.9	12711.50
14.8.2/242	14.8 Fixing glass panes of thickness 4 mm sqm 637.90	sqm	40	637.90	25516.00
14.9/241	14.9 Supplying and fixing new wooden fillets wherever necessary. 14.9.2 Hollock wood fillets	metre	30	34.20	1026.00
14.46/243	14.46 Renewal of old putty of glass panes (length) Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	metre	80	25.45	1527.00
13.26	13.26 Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	200	10.8	2160.00
13.43.1	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	sqm	100	118.7	11870.00
13.42.1/230	13.42.1 Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work.	sqm	100	36.95	3695.00
14.63	14.63 Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. 14.63.1 One or more coats on old work	sqm	275	53.15	14616.25
13.61.1/232	13.61.1 Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	sqm	200	29.8	5960
14.64.1/248	14.64.1 Finishing walls with water proofing cement paint of required shade : Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	sqm	55	78.4	4312.00
6.13.2/112	6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.	sqm	100	85.7	8570.00
9.97.2/158	9.97.2 Cement mortar 1:4 (1 cement : 4 coarse sand) Providing and fixing aluminium tower bolts, 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 : 250x10 mm	each	10	88.10	881.00
9.100.2/159	9.100.2 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 : 100 mm	each	10	45.10	451.00
10.25.2/185	10.25.2 Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	45	65.95	3067.75
9.21.1/140	9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters : 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	sqm	10.5	1559.75	16377.375
9.96	9.96 Providing and fixing aluminium sliding door bolts, ISI 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 : 300x16 mm	each	3	212.45	637.35
13.4.2	13.4.2 12 mm cement plaster of mix : 13.4.1 1:4 (1 cement : 4 coarse sand)	sqm	35	180.85	6329.75
13.4.2	13.4.2 1:6 (1 cement : 6 coarse sand)	sqm	50	162.25	8112.50

	21	Extra for providing and mixing water; proofing material in case of plaster work in proportion recommended by the manufacturer.	per sq kg cement			
11/21/228				125	50.35	6293.75
	22	15.56 Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	75	22.4	1660.00
15.60/258	23	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	25	120.55	3018.75
		TOTAL			Rs.	137792.18
		Based on DSI 2016 Add 11% Cost Index and 1% Labour cess				16535
		Grand total				154327
		Say Rupees				154327

Terms & Conditions

1. The work shall be completed within 10 days from the date of issue of work order otherwise 1% penalty per day up
2. 2% Income tax will be deducted from the bill
3. The supply will be given as per manufacture specification and entire satisfaction of Engineer In-charge
4. Vat will be deducted from the bill as per applicable.
5. 1% water/electrical charges will be deducted from the bill.
6. 1% Labour Cess charges will be deducted from the bill.

[Signature]
29/10/17
Assistant Engineer (Civil)

SCHEDULE OF WORK						
Name of work Miscellaneous Electrical works at ITO Girls Hostel (1st & 2nd floor) SPA New Delhi						
DSR 2016	S No	Description of Item	Unit	Quantity	Rate	Amount
		WIRING IN STEEL & PVC CONDUIT				
1.17	1	Wiring for light point/air point/exhaust fan point with 2.5sq mm/ 4sq mm PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit with modular switch, modular plate, suitable box etc as required.	mtr.	350	793.00	277550.00
1.143	2	Wiring for circuit/sub main along with earth wire with the following size of PVC insulated copper conductor B/C Cable in surface recessed medium class PVC conduit as required. 1.5 mm sq + 2.5mm Sq.	mtr.	315	165	51975.00
1.31	3	Supplying and fixing PVC box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size Modular Sheet in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.	nos	36	287	10332.00
1.21.2	4	Supply and fixing of following sizes of medium Class PVC Conduit along with accessories in surface including cutting the wall and making good the same with conduit 25mm	mtr.	220	62	13640.00
	5	Dismantling of old electric installation complete with existing fittings PVC cable, conduit and other etc. as required	mtr.	18	100	1800.00
1.13	6	Supplying and fixing following /Switch socket on the existing switch box/ cover including connections etc. as required.	nos	36	313	11268.00
1.13	6a	5 Amp Switch				
1.13	6b	3 Pin socket				
1.13	6c	15 Amp Switch				
1.13	6d	15 amp Socket				
	7	Supply and installation & commission of new ceiling fans high speed Calling fan / Crompton / Havells, wipro	nos	12	2190	26280.00
	8	Supply and fixing to module stepped type electronic fan regulator on the existing modular plate switch box including connection as required	nos	12	130	1560.00
2.1.1	9	Providing & fixing for 16/Amp 32 Amp MCB rating 240/415 Volte "C" Curve ISI miniature circuit breaker suitable for load.	nos	24	1493	35832.00
1.27.4	10	Supply and fixing following size modular PVC box with 6 Module	nos	24	258	6192.00
1.27.3	11	Supply and fixing following size modular PVC box with 4 Module	nos	6	205	1230.00
1.28.4	12	Supply and fixing following Modular base cover plan existing modular boxes with 6 Module	nos	24	126	3024.00
1.28.3	13	Supply and fixing following Modular base cover plan existing modular boxes with 4 Module	nos	6	101	606.00
		TOTAL			Rs.	441289.00
		Based on DSR 2016 Add 11% Cost Index and 1% labour cess				57955
		Grand total				499244
		Say Rupees				499244

Terms & Conditions

- 1 The work shall be completed within 10 days from the date of issue of work order otherwise 1% penalty per day up to
- 2 2% Income tax will be deducted from the bill
- 3 The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% water/electrical charges will be deducted from the bill.
- 6 1% Labour Cess charges will be deducted from the bill.


Assistant Engineer (Civil)

SCHEDULE OF WORK

DSR 2016:		Name of work:- Miscellaneous civil works at ITO Girls Hostel SPA New Delhi				
S. No.	Description of Item	Unit	Quantity	Rate	Amount	
14.5.2/242	14.5 Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:					
	Float glass panes of thickness 4 mm	sqm	10	617.90	6179.00	
	Float glass panes of thickness 5.5 mm	sqm	35	898.55	31449.25	
14.8.2/242	2 Supplying and fixing new wooden fillets wherever necessary: 14.8.2 Hollock wood fillets	metre	50	34.20	1710.00	
14.9/243	3 Renewal of old putty of glass panes (length)	metre	60	25.45	1527.00	
9.135.1	4 9.135 Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.80 mm all complete. 9.135.1 With 2nd class teak wood beading 52X19 mm	sqm	22	1343.55	29558.10	
9.21.1	5 Providing and fixing ISI marked 30 mm board conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 9.21.2 30 mm thick including ISI marked with necessary screws	sqm	16.2	1559.75	25267.95	
9.112	6 9.112 Providing and fixing 2nd class teak wood lipping/ moulded beading or [a] beading of size 30X5 mm fixed with wooden adhesive of approved quality and screws/ nails on the edges of the board as per direction of Engineer-in-charge	mtr	42.25	64.35	2718.79	
13.69	7 13.69 Polishing on wood work with ready mixed wax polish of approved brand and manufacture :New work	sqm	40	92.7	3708.00	
9.127.2	8 9.127 Providing & Fixing decorative high pressure laminated sheet of plain /wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 0.8 to 1.0 mm thick	sqm	18.2	518	9427.60	
9.101	9 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. 9.101.2 Twin rubber stopper	each	25	38	950.00	
9.1	10 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 9.100.2 100 mm	each	25	45.1	1127.50	
10.25.2/185	11 Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	250	85.95	21487.50	
13.61.1/232	12 Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work	sqm	20	78.4	1568.00	
15.60/258	13 Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	5	120.55	602.75	
TOTAL				Rs.	137481.44	
Based on DSR 2016 Add 11% Cost Index and 1% labour cess					16498	
Grand total					153979	
Say Rupees					153979	

Terms & Conditions

- 1 The work shall be completed within 10 days from the date of issue of work order otherwise 1% penalty per day up
- 2 2% Income tax will be deducted from the bill
- 3 The supply will be given as per manufacture specification and entire satisfaction of Engineer-in-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% water/electrical charges will be deducted from the bill.
- 6 1% Labour Cess charges will be deducted from the bill.


 Assistant Engineer (Civil)

03 BWC ITEM NO. 5.3: NAME OF WORK: WHITE WASH PAINTING, REPLACEMENT OF GRANITE TOP OF MASS KITCHEN AND OTHER MISCELLANEOUS CIVIL WORKS IN ITO MESS AREA

Head of Account: - Repair/maintenance of Planning Building.

An estimate amount rupees 2,05,742/- based on DSR-2016 was framed and the same was approved from the competent authority of SPA. Estimate is enclosed at Appendix- 03 BWC /VI.

Scope of Work:-Providing and fixing 18 mm thick gang saw cut, mirror polished, pre moulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels, supply and stacking dark shade cotton cloth as per approved sample by the competent authority. Sticking the cloth curtains of required size and shape and fixing the same at site with 8 Nos. of brass rings and folding the cloth from bottom and top. The minimum folding shall not be less than 150 mm. 100mm nylon tape be provide on top of curtain for fixing of the rings. The work shall be carried out as per directions and entire satisfaction of Engineer-in-charge. Providing and fixing stainless steel curtain rods of 1.25 mm thick with S&S and wooden plugs etc. Whenever necessary complete 25mm dia meter. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, providing and applying plaster of paris pully of 2 mm thickness over plastered surface to prepare the surface even and smooth complete. Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface Water thinnable cement primer. Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and color complete. As per manufacturer's specification. Two or more coats on new work/ one or more coat on old work. Painting with synthetic enamel paint of approved brand and manufacture of required colour. Finishing walls with water proofing cement paint of required shade. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground.

Estimated Cost: - 2,05,742/-

Justification Amount:-2,26,651/-

Work ordered Cost:-1,96,557/-

Name of agency: - M/s Bharat Construction Company

Status of work: -Civil - Work is under progress.

Total Cost of Work done: - Billings are under progress.

SCHEDULE OF WORK

Name of work: White wash, Painting Replacement of Granite Top of Marble Counters and other Miscellaneous civil works at ITO Girls Hostel SPA New Delhi.

S. No.	Description of Item	Unit	Quantity	Rate	Amount
14.75/245	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 to 50 meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead.				
	1. With cement mortar 1:4 (1 cement : 4 fine sand)				
14.46/241	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand paporing and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	35	105	12211.50
13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	262	101	26426.60
13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	sqm	187.18	118.7	22216.27
13.42.1/230	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work.	sqm	167.18	36.95	6916.30
14.63	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. 14.63.1 One or more coats on old work	sqm	187.18	51.15	9948.617
13.61.1/232	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on New work	sqm	74.82	29.8	2229.636
6.13.2/112	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.	sqm	65	78.4	5096.00
13.4	Cement mortar 1:4 (1 cement : 4 coarse sand). 12 mm cement plaster of mix : 13.4.1 1:4 (1 cement: 4 coarse sand)	sqm	1	684.20	684.20
13.4.2	1:6 (1 cement: 6 coarse sand)	sqm	10	180.85	1808.50
13.21/228	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	per 50 kg cement	12	168.25	2019.00
	15.56 Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	125	50.35	6293.75
	14 8.2 Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and pre-polished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	sqm	45	22.4	1008.00
8.2	8.2.1 Baj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble 8.2.1.2 Area of slab over 0.50 sqm				
8.2.2	8.2.2 Granite of any colour and shade 8.2.2.2 Area of slab over 0.50 sqm sqm	sqm	2	1850.35	3700.30
8.3	8.3 Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. 8.3.1 Marble work metre	metre	16.8	3113.3	52303.44
8.3.2	8.3.2 Granite work metre	metre	20	144.7	2894.00
		metre	20	245.7	4914.00

		1 Providing and laying in position concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				6.93
	18	4:2:1:3 (1 Cement: 1½ coarse sand (zone III) : 3 graded stone aggregate 20 mm nominal size)	cum	2	5914.65	11829.30
4.1.2	19	4:1.3:1:2.4 (1 cement : 2 coarse sand (zone III) : 4 graded stone aggregate 20 mm nominal size) cum S&S	cum	2	5481.95	10963.90
Approved Rate	20	supply and stacking dark shade cotton cloth as per approved sample by the competent authority.	meter	51	267.72	13653.72
Approved Rate	21	Stitching the cloth curtains of required size and shape and fixing the same at site with 8 Nos. of brass rings and folding the cloth from bottom and top. The minimum folding shall not be less than 150 mm. 100mm nylon tape be provide on top of curtain for fixing of the rings. The work shall be carried out as per directions and entire satisfaction of Engineer-in-charge.	Nos	16	180	2880.00
Approved Rate	22	Providing and fixing stainless steel curtain rods of 1.25 mm thick with S&S and wooden plugs etc. Whenever necessary complete 25mm dia meter.	metre	12.5	429.65	5370.63
15.60/258	23	Disposal of building rubbish / malfa / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	10	120.55	1205.50
		TOTAL			Rs.	183698.16
		Based on IYSR 2016 Add 11% Cost Index and 1 % labour cess				22044
		Grand total				205742
		Say Rupees				205742

Terms & Conditions

- 1 The work shall be completed within 10 days from the date of issue of work order otherwise 1% penalty per day up to
- 2 2 % Income tax will be deducted from the bill
- 3 The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% water/electrical charges will be deducted from the bill.
- 6 1% Labour Cess charges will be deducted from the bill.


 Assistant Engineer (Civil)

- 18 -

03 BWC ITEM NO. 5.4: REPLACEMENT OF OVERHEATED AND DISTRESSED AUTOMATICS CHANGE OVER (SITC OF 2 NO) POWER CONDUCTOR 4 POLE L & T MAKE ALONG WITH FITTINGS) IN LT PANEL OF THE ITO GIRL'S HOSTEL .

Head of Account: - Repair/maintenance of Planning Building.

Considering the emergency of work to continue supply of the electricity to the girl's hostel site was shown to contractor and three spot quotations has been collected from the contractor.

Scope of Work:-Supply Installation testing over Contactor MCX-32 FP 4 Pole- 415V make L & T along with its fittings as required, Dismantling of Old/ Damage Contactor with new Contactor.

Work ordered Cost:-49,850/-

Justification Amount:- 56,949/-

Name of agency: -M/s Vichitra Construction Company.

Status of work: -Civil – work has been completed as per CPWD specification.

Total Cost of Work done: - Billings are under progress.

03 BWC ITEM NO. 5.5: NAME OF WORK: REWIRING AND ADDITIONAL SWITCH/SOCKET POINT IN ROOMS OF ITO GIRLS HOSTEL OF SPA NEW DELHI.

Head of Account: - Repair/maintenance of Planning Building.

An estimate amount rupees 6,26,180/- based on DSR-2016 was framed and the same was approved from the competent authority of SPA. Estimate is enclosed at Appendix - 03 BWC /VII.

Scope of Work:-WIRING IN STEEL & PVC CONDUIT, Wiring for light point/fan point/exhaust fan point/ with 2.5sq.mm/ 4sq mm PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit with modular switch , modular plate, suitable box etc as required, Supplying and fixing PVC box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size Modular Sheet in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required, Supplying and fixing following /Switch socket on the existing switch box/ cover including connections etc. as require, Supply and installation & commission of new ceiling fans high speed Calling fan / Crompton /Havells , wipro, Providing & Fixing for 16/Amp32 Amp MCB rating 240/415 Volte "C" Curve ISI miniature circuit breaker suitable for load, Supply and fixing to module stepped type electronic fan regulator on the existing modular plate switch box including connection as required, Tube light with complete Fitting 4 fit along with Installation, Tube light with complete Fitting 2 fit along with Installation.

Estimated Cost: - 6,26,180/-

Justification Amount:-7,15,348/-

Work ordered Cost:- 6,45,094/-

Name of agency: -M/s Vichitra Construction Company.

Status of work: -Civil - work is under progress.

Total Cost of Work done: - Billings are under progress.

- 20 -

- 21 -

Appendix - 03 BWC / VII

SCHOOL OF PLANNING AND ARCHITECTURE: NEW DELHI

1. Block - B, I.P. Estate, New Delhi - 110 002

SCHEDULE OF WORK

Name of Work: Replacement of Electrical switch & socket points with new alongwith wiring in rooms of Girls Hostel of SPA New Delhi.

SCHEDULE OF WORK

DSR 2016	S.NO.	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
1.3	01.	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable in surface/recessed steel conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. Mm FRLS PVC insulated copper conductor single core cable etc. As required.	POINT	276	836	230736
1.5	02.	Wiring for light/power plug with 2x4 sq. Mm FRLS PVC insulated copper conductor single core cable in surface/recessed steel conduit alongwith 1 No. 4 sq. Mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	200	239	47800
1.7	03.	Wiring for circuit/submain wiring alongwith wire with the following sizes of FRLS PVC insulated copper conductor single core cable in surface/recessed steel conduit as required.				
1.71		2 x 1.5 sq. mm + 1 x 1.5 sq. mm earth wire	Meter	150	181	27150
1.72		2 X 2.5 sq. mm + 1x2.5 sq. mm earth wire	Meter	600	256	153600
1.73		2 x 4 sq. mm + 1 x 4 sq. mm earth wire	Meter	300	237	71100

- 21 -

- 22 -

- 23 -

	04	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in wall and recess including cutting the wall and making good the same in case of recessed conduit as required				
a.		20 mm	Meter			
b.		25 mm	Meter	450	59	31050
c.		32 mm	Meter			
1.24	05	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a.		5/6 A switch	Each	224	84	18816
b.		2 way 5/6 A switch	Each			
c.		15/16 A Switch	Each			
d.		3 pin 5/6 A socket outlet	Each			
1.25	06	Supply and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	12	288	3456
	07	6 Amp to 32 Amp SPN MCB C Curve 10KA breaking capacity Fixation and commission	Each	24	533	12792
1.27	08	Supplying and fixing following size modules. GI box alongwith modular base and cover plate for modular switches in recess etc. as required.				
a.		1 or 2 Module (75 mm x 75 mm)	Each			
b.		3 Module (100 mm x 75 mm)	Each			
c.		4 Module (125 mm x 75 mm)	Each			
d.		6 Module (200 mm x 75 mm)	Each	56	258	14448
1.28	09	Supplying and fixing following Modular base and cover plate on existing modular metal boxes etc as required.				
a.		1 or 2 Module	Each			
b.		3 Module	Each			
c.		4 Module	Each			
d.		6 Module	Each	28	126	3528.00

Sl. No.	Description	Unit	Qty	Rate	Amount
10	Supplying and fixing suitable GI box with modular plate and cover in front of surface in recess including providing and fixing 3 nos 5/6 A modular socket outlet and 5/6 A modular switch connections etc. as required.	Each	23	313	3781.00
1.44	11. Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated copper conductor, single core cable etc. as required.	Each	28	105	2940.00
	Total				626180.00

Terms & Conditions::

1. The work shall be completed within 10 days from the date of issue of work order otherwise 1 % penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.
2. 2% Income Tax will be deducted from the bill.
3. The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge.
4. VAT will be deducted from the bill as per applicable
5. 1% Labour Cess Charges will be deducted from the bill.

[Handwritten signature]

03 BWC ITEM NO. 5.6: NAME OF WORK: MISCELLANEOUS URGENT ELECTRICAL WORKS AT ITO GIRLS HOSTEL SPA NEW DELHI.

Head of Account: - Repair/maintenance of Planning Building.

An estimate amount rupestl. 21,631/- based on DSR-2016 was framed and the same was approved from the competent authority of SPA. Estimate is enclosed at Appendix - 03 BWC /VIII.

Scope of Work:- Swich 6 Amp make Cono. Switchs 16 amp Make cone. Sockets 6 Amp make Cono. Sockets 16 amp Make Cone. 1.5 SQ MM Cable make Havells, 2.5 sq. MM cable make Havells, 0.75mm Cable Green for earth Havells, 1 mm Cable make Havells, 4 sq. mm Cables make Havells, Blankers Room Type, 3 Module Plate Make Cono, 8 Module Plates Make cono, 4 Module plate make Cono, Tape Rolls, Led Tube Lite with Filling 4 fil, Led Tube Lite with Filling 2 fil, F-Covers, Conduite Pipe 1 Inch, Wire Clip 25mm, Fan Regulators Step type make Cono, 48 " Ceiling fan make Crompton, Box PVC 1 inch, Fan Clamp, Screw Black 1", Screw Black 1.5", Screw Black 2" Supply, Replacement, Installation Complete with connection ; Testing & commisioning etc. as required.

Estimated Cost: - 1, 21,631/-

Justification Amount:- 1,38,951/-

Work ordered Cost:- 1,34,529/-

Name of agency: -M/s Creative Associate

Status of work: -Civil - work has been completed as per CPWD specification.

Total Cost of Work done: - Billings are under progress.

- 24 -

- 24 -

Appendix - 03 Buic / VIII

Name of work - Miscellaneous Electrical works at ITO Girls Hostel Rooms SPA New Delhi.					
Sl. No.	Particulars	UNIT	QTY	AMOUNT	Total
1	16 Amp make Cona	Nos	33	48.00	1,584.00
2	16 amp Make cone	Nos	10	68.00	680.00
3	sockets 6 Amp make Cona	Nos	23	58.00	1,334.00
4	sockets 16 amp Make Cone	Nos	13	108.00	1,404.00
5	1.5 SQ MM Cable make Havells	Unit	3	1,490.00	4,470.00
6	2.5 sq MM cable make Havells	Unit	2	2,380.00	4,760.00
7	6.75mm Cable Green for earth Havells	Unit	2	825.00	1,650.00
8	7 mm Cable make Havells	Unit	1	930.00	930.00
9	4 sq mm Cables make Havells	Unit	3	3,890.00	11,670.00
10	Bankers Roam Type	Nos	12	15.00	180.00
11	3 Module Plate Make Cona	Nos	25	62.00	1,550.00
12	5 Module Plates Make Cona	Nos	3	168.00	504.00
13	4 Module plate make Cona	Nos	13	82.00	1,066.00
14	Tape Rolls	Unit	6	15.00	90.00
15	Led Tube Lite with Fitting 4 fit	Nos	2	482.00	964.00
16	Led Tube Lite with Fitting 2 fit	Nos	4	460.00	1,840.00
17	T-Covers	Nos	36	10.00	360.00
18	Conduite Pipe 1 Inch	Mtr	20	65.00	1,300.00
19	Wire Clip 25mm	unit	1	290.00	290.00
20	Fan Regulators Step type make Cona	Nos	10	195.00	1,950.00
21	48" Ceiling fan make Crompton	Nos	13	2,190.00	28,470.00
22	16" wall fan make Orient	Nos	15	2,060.00	30,900.00
23	Box PVC 1 inch	Nos	15	55.00	825.00
24	Fan Clamp	Nos	25	60.00	1,500.00
25	Screw Black 1"	Doz	2	50.00	100.00
26	Screw Black 1.5"	Doz	2	60.00	120.00
27	Screw Black 2"	Doz	2	70.00	140.00
28	Supply, Replacement, installation Complete with connection, Testing & commisioning etc. as required.	Supervisor class 1 per day	5	900.00	4,500.00
		Electrician per day	15	790.00	11,850.00
		Helper per day	10	465.00	4,650.00
Total					121,631.00

Terms & Conditions

- The work shall be completed within 10 days from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill
- 7% Income tax will be deducted from the bill
- The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge
- Vat will be deducted from the bill as per applicable.
- 1% water/electrical charges will be deducted from the bill.
- 1% Labour less charges will be deducted from the bill.

Assistant Engineer (Civil)

03 BWC ITEM NO. 5.8: NAME OF WORK: - MISCELLANEOUS WORKS AT THE MB
HOSTEL IN THE TOILETS AND OTHER LOCATIONS.

Head of Account: Repair / Maintenance of MB Hostel

A complete survey was carried out of the entire hostel and an estimate of Rs4,45,699 of miscellaneous items has been prepared, based on the DSR. Estimate is enclosed at Appendix - 03 BWC /IX.

Scope of work:-Estimate Enclosed at Annex-07

Estimated Cost: -4, 45,699/-

Justification Amount: - 4, 45,384/-

Work ordered Cost:-Under process

Name of agency: -M/s. Rajinder Kumar

Status of work: -Civil - Work is under progress.

Total Cost of Work done: - Billings are under progress.

Eight (8) Emergency Works, undertaken after the incident of fire and student strike are put up for expo facto approval of the BWC.

- 26 -

- 77 -

Appendix - 03 BWC / IX

SCHEDULE OF WORK						
DSR 2016	Name of work:- Miscellaneous works at the MB Hostel in the Toilets and other locations.					
S No.	Description of Item	Unit	Quantity	Rate	Amount	
14.75/249	1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead. 1. With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	85	368.9	31356.50
14.46/243	2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	400	10.8	4320.00
13.26	3	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	175	118.7	20772.50
13.43.1	4	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	sqm	175	36.95	6466.25
13.42.1/230	5	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work.	Sqm	275	53.15	14616.25
14.63	6	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. 14.63.1 One or more coats on old work	sqm	550	29.8	16390
14.54.1/247	7	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	Sqm	40	51.3	2052
13.61.1/232	8	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
	9	One or more coats on New work	sqm	20	78.4	1568.00
6.13.2/112	10	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	11	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	10	684.20	6842.00
13.4	12	12 mm cement plaster of mix : 13.4.1 1:4 (1 cement: 4 coarse sand)	sqm	40	180.85	7234.00
13.4.2	13	1:5 (1 cement: 6 coarse sand)	sqm	40	168.25	6730.00
13.21/228	14	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	per 50 kg cement	200	50.35	10070.00
15.56	15	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	50	22.4	1120.00
9.21.1/148	16	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	11	1559.75	17157.25

9.48.1/152	17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	kg	150	104.65	15697.5
10.25.2/185	18	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	250	85.95	21487.50
9.135.1	19	9.135 Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. 9.135.1 With 2nd class teak wood beading 62X19 mm	sqm	40	1343.55	53742.00
Approved item	20	Renewing, cutting and fixing 3mm to 4mm thick fiber glass sheet with wooden fillets wherever necessary nails etc.	sqm	15	1212.48	18187.2
11.36/196	21	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by 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 sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	30	744.8	22344
11.37/196	22	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	sqm	30	688.35	20650.5
4.1.2	23	4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				0.00
	24	4.1.2 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	3	5924.65	17773.95
	25	4.1.3 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size). cum 5481.95	cum	3	5481.95	16445.85
17.2.1/292	26	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid.	each	4	3418.7	13674.8
17.1.1/292	27	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: 17.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	4	3494.2	13976.8

17.5 2/193	28	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x150 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS :2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	each	4	9317.6	37270.4	
TOTAL						Rs.	397945.25
Based on DSR 2016 Add 11% Cost Index and 1% labour cess							47753
Grand total							445699
Say Rupees							445699
Say Rupees							445699

Terms & Conditions

- 1 The work shall be completed within 10 days from the date of issue of work order otherwise 1 % penalty per day up to a
- 2 2 % Income tax will be deducted from the bill
- 3 The supply will be given as per manufacture specification and entire satisfaction of Engineer, In-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% water/electrical charges will be deducted from the bill.
- 6 1% Labour Cess charges will be deducted from the bill.


 Assistant Engineer (Civil)

03 BWC ITEM NO. 8: ACTION TAKEN REPORT

Action taken report was presented in the previous BWC meeting but the members observed that the format of the ATR was not in conformity with the one prescribed by the representative of MHRD. The same is being presented below for consideration:

Reporting Item no. 1

Name of Work:-Providing and fixing of Signage board along the boundary wall of SPA site at Vasant Kunj.

1. **Head of Account:** -Vasant Kunj Project.
2. **Scope of Work:**-Estimate enclosed in file. **Appendix – 03 BWC /XI**
3. **Date of Awarding of work:** -8th Dec. 2016
4. **Time allowed for completion:**-45 days
5. **Dated of start :-** 16/05/2017
6. **Date of Completion:-** 16/6/ 2017
7. **Total Estimated Cost of Work:** - 1, 77,134/-
8. **Total Approved budget :-** 1,37,580/-
9. **Total cost of work done:-** 1, 14, 448.52/-
10. **Date of Approval:** - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 06Dec. 2016.
11. **Mode of call of Tender:** - Open tender through SPA website.
12. **Name of Agency:** - M/S. Mahawar & Company
13. **Any Deviation In approved budget:-**NO (there is saving of 16.81% % in the estimated amount.)
14. **Reason of Delay:** - The work was awarded to contractor on dated 8th Dec. 2016, But in the meantime, CPWD was started the work of construction of boundary wall at site, and the language for the board was not decided till date 11th May 2017 and the same was final on date 12th May 2017, accordingly the work was started at site on date 16th May 2017 and the same was completed on date 16th June 2017 and in time.
15. **Status of work:** - Work has been completed as per CPWD specification.

Reporting Item no. 2

Name of Work:-Replacement of old M.S. window and dismantled door with Aluminum Door and Window at second floor of Computer center Architecture Building SPA New Delhi.

1. **Head of Account:** - R/O of Architecture Building.
2. **Scope of Work:**-Estimate enclosed in file. **Appendix – 03 BWC /XII**
3. **Date of Awarding of work:** -29th June. 2017
4. **Time allowed for completion:**-20 days
5. **Dated of start :-** 10/07/2017
6. **Date of Completion:-** 30 July 2017
7. **Total Estimated Cost of Work:** - 28,688/-
8. **Total Approved budget :-** 30,696/-
9. **Total cost of work done:-** 28,018/-
10. **Date of Approval:** - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 27/6/ 2017.
11. **Mode of call of Quotation:** - Spot Quotation.

12. Name of Agency: - M/S. Mahawar & Company
13. Any Deviation in approved budget:-NO (there is saving of 2.33 % in the estimated amount.)
14. Reason of Delay: - Nil
15. Status of work: - Work has been completed as per CPWD specification

Reporting Item no. 3

Name of Work:-Providing and fixing G.I. chain link fabric fencing in between flat No. 14 and 8 at Maharani Bagh residential Complex

1. Head of Account: - R/O of M.B. complex.
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XIII**
3. Date of Awarding of work: -25/7/ 2017
4. Time allowed for completion:-30 days
5. Dated of start :- 27/07/2017
6. Date of Completion:- 26/8/2017
7. Total Estimated Cost of Work: - 41,944/-
8. Total Approved budget :- 46,977/-
9. Total cost of work done:- 38,371.06/-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 20/7/ 2017.
11. Mode of call of Quotation: - Open quotation through SPA Website.
12. Name of Agency: - M/S. FirozHaider
13. Any Deviation in approved budget:-NO (there is saving of 18.32 % in the estimated amount.)
14. Reason of Delay: - Nil.
15. Status of work: - Work has been completed as per CPWD specification

Reporting Item no. 4

Name of Work:-Renovallon and Up-gradatlon of the outside area of Faculty rooms and Conference room at first floor in Architecture Building of SPA.

1. Head of Account: - R/O of Architecture Building.
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XIV**
3. Date of Awarding of work: -22/5/ 2017
4. Time allowed for completion:-15 days
5. Dated of start :- 25/05/2017
6. Date of Completion:- work is under progress.
7. Total Estimated Cost of Work: - 3,23,063/-
8. Total Approved budget :- 3,58,600/-
9. Total cost of work done:- Bill under progress /-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 16/5/2017.
11. Mode of call of tender: - Open Tender through SPA Website.
12. Name of Agency: - M/S. Bharat Construction company.
13. Any Deviation in approved budget:-Nil
14. Reason of Delay: -At the same site Electrical work is pending in which ceiling lights is pending due to this false ceiling and PVC flooring work is pending only. E.O.T. of the work is approved by Competent authority till 22/12/2017

15. Status of work: - Work is under progress and executed as per CPWD specification.

Reporting Item no. 5

Name of Work: -Internal finishing by distemper and painting in dinning and kitchen areain hostel at Maharani Bagh Complex SPA New Delhi.

1. Head of Account: - R/O of Maharani Bagh Complex.
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XV**
3. Date of Awarding of work: -04/10/ 2017
4. Time allowed for completion:-20 days
5. Dated of start :- 7/10/2017
6. Date of Completion:- work is under progress.
7. Total Estimated Cost of Work: - 1,74,162/-
8. Total Approved budget :- 1,74,975/-
9. Total cost of work done:- Bill under progress /-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 25/09/2017.
11. Mode of call of tender: - Open Tender through SPA Website.
12. Name of Agency: - M/S. Bharat Construction company.
13. Any Deviation in approved budget:-Nil
14. Reason of Delay: -The site is handed over to contractor in parts because of mass is operational. Due to the same work is delay. E.O.T. of the work is under process.
15. Status of work: - Work is under progress and executed as per CPWD specification.

Reporting Item no. 6

Name of Work: -Refurbishing of electrical installation in conference room and gallery First Floor at Archllect Bldg. SPA

1. Head of Account: - R/O of Architecture Building.
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XVI**
3. Date of Awarding of work: -11/sep/ 2017
4. Time allowed for completion:-45 days
5. Dated of start :- 21/09/2017
6. Date of Completion:- 02/11/2017.
7. Total Estimated Cost of Work: - 95,905/-
8. Total Approved budget :- 89,278.89/-
9. Total cost of work done:- 89,811 /-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 28/8/2017.
11. Mode of call of quotation: - Open quotation through SPA Website.
12. Name of Agency: - M/S. Bharat Construction company.
13. Any Deviation in approved budget: - Nil.
14. Reason of Delay: -Nil.
15. Status of work: - Work is under progress and executed as per CPWD specification.

Reporting Item no.7

Name of Work: -Repairs to false ceiling, Roofing, wash, covering of verandah and other miscellaneous works in temporary office at VasantKunj site SPA New Delhi

1. Head of Account: -VasantKunj Project.
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XVII**
3. Date of Awarding of work: -11/sep/ 2017
4. Time allowed for completion:-45 days
5. Dated of start :- 21/09/2017
6. Date of Completion:- 02/11/2017.
7. Total Estimated Cost of Work: - 2,61,283/-
8. Total Approved budget :- 3,16,152.43/-
9. Total cost of work done:- Tender Closed
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 25/8/2017.
11. Mode of call of Tender: - Open tender through SPA Website.
12. Name of Agency: - M/S. firozHaider.
13. Any Deviation in approved budget: - Nil.
14. Reason of Delay: -Nil.
15. Status of work: - Tender Closed (Not awarded to contractor)

Reporting Item no.8

Name of Work: -While washing and painting work in old committee room, studios of Urban Planning and Environmental Planning staircase all studios of physical planning of the SPA, New Delhi

1. Head of Account: - R/O Planning Building
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XVIII**
3. Date of Awarding of work: -20/07/ 2017
4. Time allowed for completion:-20 days
5. Dated of start :- 21/07/2017
6. Date of Completion:- 07/08/2017.
7. Total Estimated Cost of Work: - 3,38,575/-
8. Total Approved budget :- 2,36,352/-
9. Total cost of work done:- 2,45,977/-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 18/7/2017.
11. Mode of call of Tender; - Open tender through SPA Website.
12. Name of Agency: - M/S Shaima Construction comp.
13. Any Deviation in approved budget: - As per site requirement 4.05 % above form budget but within permissible limit of 10% and in time.
14. Reason of Delay: -Nil.
15. Status of work: - Work has been completed as per CPWD specification

Reporting item no.9

Name of Work: -Addition/alteration in Library of Planning builds for making office to hon'ble Chairman SPA, New Delhi.

1. Head of Account: - R/O Planning Building
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XIX**
3. Date of Awarding of work: -17/10/ 2017
4. Time allowed for completion:-20 days
5. Dated of start :- 06/11/2017
6. Date of Completion:- 27/11/2017.
7. Total Estimated Cost of Work: - 1,36,452/-
8. Total Approved budget :- 1,07,312/-
9. Total cost of work done:- Work is under progress
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 09/10/2017.
11. Mode of call of Tender: - Open tender through SPA Website.
12. Name of Agency: - M/S Shaima Construction comp.
13. Any Deviation In approved budget: - Nil
14. Reason of Delay: -Nil.
15. Status of work: - Work is under progress.

Reporting item no.10

Name of Work: -Supply and Installation of Porta Cabin for Drivers of SPA New Delhi.

1. Head of Account: - R/O Planning Building
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XX**
3. Date of Awarding of work: -11/07/ 2017
4. Time allowed for completion:-30 days
5. Dated of start :- 22/07/2017
6. Date of Completion:- 21/08/2017.
7. Total Estimated Cost of Work: - 1,96,359/-
8. Total Approved budget :- 2,19,400/-
9. Total cost of work done:-2,19,400/-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 06/07/2017.
11. Mode of call of Tender: - Open tender through SPA Website.
12. Name of Agency: - M/S Paryag Heritage Private Ltd.
13. Any Deviatlon In approved budget: - Nil
14. Reason of Delay: -Nil.
15. Status of work: - Work has been completed as per CPWD specification.

Reporting item no.11

Name of Work: - Addition/Alteration in BEM Department in Architecture Building SPA- New Delhi-02.

1. Head of Account: - R/O Architecture Building
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XXI**
3. Date of Awarding of work: -08/05/ 2017
4. Time allowed for completion:-20 days
5. Dated of start :- 11/05/2017

6. Date of Completion:- 30-09-2017
7. Total Estimated Cost of Work: - 42,964/-
8. Total Approved budget :- 42,964/-
9. Total cost of work done:- 43,308.6/-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 12/07/2017.
11. Mode of call of quotation: - Open quotation through SPA Website.
12. Name of Agency: - M/S Bharat Const. Company
13. Any Deviation In approved budget: - As per site requirement 0.80% above form budget but within permissible limit of 10% and in time.
14. Reason of Delay: -Nil.
15. Status of work: - Work has been completed as per CPWD specification.

Reporting Item no.12

Name of Work: -Providing and fixing of concertina coil fencing in the Architecture building.

1. Head of Account: - R/O Architecture Building
2. Scope of Work:-Estimate enclosed in file. **Appendix – 03 BWC /XXII**
3. Date of Awarding of work: -22/03/ 2017
4. Time allowed for completion:-30 days
5. Dated of start :- 28/03/2017
6. Date of Completion:- 25/04/2017.
7. Total Estimated Cost of Work: - 81,760/-
8. Total Approved budget :- 73,899.04/-
9. Total cost of work done:-72,632/-
10. Date of Approval: - The total amount was less than the 10 lacs and the technical approval was accorded by SPA Director on date 09/10/2017.
11. Mode of call of Tender: - Open tender through SPA Website.
12. Name of Agency: - M/S Rajinder Kumar
13. Any Deviation In approved budget: - NO (there is saving of 11.16 % in the estimated amount.)
14. Reason of Delay: -Nil.
15. Status of work: - Work has been completed as per CPWD specification.

Reporting Item no.13

Name of Work: -Miscellaneous repair works at Architecture & Planning building

1. Head of Account: - R/O Planning Building
2. Scope of Work:-Already Approved by BWC.
3. Date of Awarding of work: -Uploaded in SPA website and last date of opening tender is 15/11/2017.
4. Time allowed for completion:-Six months
5. Dated of start :- Nil
6. Date of Completion:- Nil.
7. Total Estimated Cost of Work: - 3,50,000/-
8. Total Approved budget :- 3,50,000/-
9. Total cost of work done:-Nil
10. Date of Approval: - The work was approved in 01BWC Meeting held on 22 June 2017
11. Mode of call of Tender: - Opentender through SPA Website.

12. Name of Agency: - Nil
13. Any Deviation in approved budget: - Nil
14. Reason of Delay: -Nil.
15. Status of work: - Nil

Reporting Item no.14

Name of Work: -Renovation and upgradation of the Laboratory, library and P.A. office the conservation department In Planning Building.

1. Head of Account: - R/O Planning Building
2. Scope of Work:-Already Approved by BWC.
3. Date of Awarding of work: - Will be uploaded in E-tendering which is under progress (Tenderwizard)
4. Time allowed for completion:-Two Months
5. Dated of start :- Nil
6. Date of Completion:- Nil.
7. Total Estimated Cost of Work: - 5,74,542/-
8. Total Approved budget :- 5,74,542/-
9. Total cost of work done:-Nil
10. Date of Approval: - The work was approved in 01BWC Meeting held on 22 June 2017
11. Mode of call of Tender: - Opentender through SPA Website.
12. Name of Agency: - Nil
13. Any Deviation in approved budget: - Nil
14. Reason of Delay: -Nil.
15. Status of work: - Nil

SCHEDULE OF WORK

Subject: Supply and fixing of signage board along the boundary wall of Site of Workability
 S.No. Description of work

S.No.	Description of work	Unit	Qty	Rate	Amount
1	Excavation of soil more than 60 cm & upto 90 cm including getting soil out and soil, then returning the soil as required in layers upto 30 cm depth including consolidating each deposited layer by ramming. Disposal of surplus excavated soil as directed. Area of 50 m and lift up to 1.5 m. 2.502 Ordinary work	B5	34	75	2550.00
2	1:4:8 (cement : sand : aggregate 40mm nominal size) including in position cement concrete of specified grade including the cost of centering and shuttering. All work up to plinth	Cum	0	4201.2	25806.85
3	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1270	73.95	93916.50
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sqm	40	74.4	2976.00
5	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge (Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment). 16.60.1 Overhead informatory road signage	Sqm	11	4725.4	51979.40
TOTAL					177134
Less 22.33% Contractor Enhancement					39554
Net Total Amount					137580

Terms & conditions

The work shall be completed within 45 Days from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.

2% income tax will be deducted from the bill.

The work shall be carried out as per C.P.W.D. specification and entire satisfaction of engineer-in-charge.

Water charges will be deducted from the bill as per applicable.

Electricity charges will be deducted from the bill

Material charges will be deducted from the bill

Surinder Kumar

Appendix-03 BWC / XII

Schedule of work

Project: Replacement of old M.S. ~~Window~~ and dismantled door with Aluminum Door and Window at second floor of Computer center Architecture Building SPA New Delhi.

Sl. No.	Description of work	Unit	Qty	Rate	Amount
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below.	each	1	157.85	157.85
2	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately): For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	15.56	355.2	5526.912
3	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	32.96	415.05	13680.048
4	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): With toughened glass panes of 5.50 mm thickness	Sqm	2.08	1973	4103.84
5	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	2	388.4	776.8
6	Providing and fixing aluminium tower bolts, 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 : 250x10 mm	each	4	38.1	352.4

1	Providing & fixing aluminium anodised american handle of size 200mm for doors.	no	1	1592	1592
2	Providing and fixing aluminium sliding door bolts, ISI 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 : 300x16 mm	each	2	212.45	424.9
3	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	metre	30	62.45	1873.5
4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved and site clearance	job		200	200
	TOTAL				28688
	Add 7 % Contractor Enhancement				2008.18
	Grand total				30696

Terms & Conditions

- 1 The work shall be completed within 20 days from the date of issue of work order otherwise 1 % penalty per day up to a maximum of 10 % shall be imposed on gross amount of bill.
- 2 2 % Income tax will be deducted from the bill
- 3 The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% water charges will be deducted from the bill.

A. E. (Civil)
A.E. (Civil)

Exd. - 9.101

-39-

-95-

-34-

Appendix - 03 BWC / XIII

SCHEDULE OF WORK

Subject: Providing and fixing G.I. chain link fabric fencing in between flat no. 14 and 66 at Maharani bagh Residential Complex.

S.No.	Description of work	Unit	Qty	Rate	Amount
1	Excavating holes more than 0.10 cum & upto 0.50 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift up to 1.5 m., Ordinary rock	No	11	81.85	900.35
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:4:8 (1 Cement: 4 Coarse sand: 8 graded stone aggregate 40mm nominal size)	Cum	0.2	4301.2	860.23
3	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	295	73.95	21815.25
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sqm	44	74.4	3273.60
5	Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete : 100x75x3.50 mm	nos	6	38.55	231.30
6	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 300x16 mm	Each	4	173.2	692.80
7	16.71 Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts, and washers as required complete as per the direction of Engineer-in-charge.	Sqm	22	644.1	14170.20
TOTAL					41944
Add 4 % Cost Index and 1% Labour Cess					2097
Grand Total					44041

Terms & conditions

- The work shall be completed within 45 days from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.
- 2 % income tax will be deducted from the bill.
- The work shall be carried out as per C.P.W.D. specification and entire satisfaction of
- Vat will be deducted from the bill as per applicable.
- 1% Water charges will be deducted from the bill

[Handwritten signature]

-40-

[Handwritten signature]
C.C.(4)

Appendix - 03 BWC / XIV

INSTRUMENTS

No.	Description of work	Unit	Qty	Rate	Amount
1	Providing & fixing door and window high pressure laminated sheet of plain wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS - 2048 Type S, including cost of adhesive of approved quality. 9.127.115 mm thick	Sqm	6	829.7	4978.20
2	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood 150x12 mm metre	meter	20	117.95	2359.00
3	12.524 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	Sqm	83	1155.20	95881.60
4	Providing and fixing regular roller blinds of approved shade and texture etc. complete as per direction and entire satisfaction of the Engineer in-charge.	cum	6.5	1600.00	10400.00
5	Refurbishing of chairs seat & back with approved cloth of required colour & shade by removing the existing cloth and repair of chair seat and back all complete as directed by Engineer in-charge	cum	16	850.00	13600.00
6	Providing and laying 1.5mm thick PVC flooring	cum	55	1195.00	65725.00
7	Removing PVC flooring and cleaning the floor with required chemical all complete	cum	55	58.12	3196.60
8	Repair of wooden flooring with required thickness & fixing with adhesive etc complete	Sqm	1	518.00	518.00
9	Polishing on wood work with ready mixed wax polish of approved brand and manufacture : 13.69.1 New work	Sqm	40	85.15	3406.00
10	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (Cement: 4 coarse sand)	Sqm	12	259.15	3109.80
11	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	465	9.9	4603.50
12	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	465	110.95	51591.75

13	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface 13.43.1 Water thinnable cement primer	Sqm	465	35.85	16670.25
14	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : 13.60.1 Two or more coats on new work	Sqm	465	80.5	37432.50
15	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : 13.61.1 Two or more coats on new work	Sqm	100	74.4	7440.00
16	Polishing on wood work with ready mixed wax polish of approved brand and manufacture : 13.69.1 New work	Sqm	18	85.15	1532.70
17	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	5	123.7	618.50
TOTAL					323063
Add 11% Contractor Enhancement					35537
Grand Total					358600

Terms & conditions

The work shall be completed within 15 Days from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.

2% income tax will be deducted from the bill.

The work shall be carried out as per C.P.W.D. specification and entire satisfaction of engineer-in-charge.

Vat will be deducted from the bill as per applicable.

1% Water Charges will be deducted from the bill.

1% Labour Cess will be deducted from the bill.


C.E.C

Approved - 03BWC / XV

Schedule of work

Subject: Internal finishing by distemper and painting in dining and kitchen areas in Hostel 2,
Waherani Baga Complex, SFA, New Delhi.

No.	Description of work	Unit	Qty.	Rate	Amount
0	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	770	7.60	5852
2	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead: 14.1.1 With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	10	247.80	2478
3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	770	89.65	69030.5
4	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: 13.43.1 Water thinnable cement primer.	Sqm	770	35.85	27604.5
5	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. 13.42.1 Two or more coats on new work.	Sqm	770	50.65	39000.5
6	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of thickness 4 mm.	Sqm	10	690.70	6907
7	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete. With 2nd class teak wood beading 62X19 mm.	Sqm	10	661.65	6616.5
TOTAL					159489

Say Rupees

1,59,489/-
159489

1 The work shall be completed within 15 days from the date of issue of work order otherwise 1% penalty per 1,74,975.88, day up to a maximum of 10% shall be imposed on gross amount of bill

2 2% Income tax will be deducted from the bill

3 The supply will be given as per manufacture specification and entire satisfaction of Engineer in-charge

4 Vat will be deducted from the bill as per applicable.

5 1% water charges will be deducted from the bill.

Wiring of electrical work in the Building SPA.				
No.	Description	Unit	Qty	Amount
	Wiring for light/ fan/ Exhaust fan/ call bell point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch, modular plate, suitable Modular GI box and earthing the points with 1.5 sq mm FRLS PVC insulated copper conductor S/C cable etc. as required	each	15	8220.00
2	Wiring for light/ power plug with 2x4 sq. mm FRLS PVC insulated copper conductor S/C cable in surface or recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor S/C cable etc. as required	metre	35	5880.00
3	Wiring circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor S/C cable in surface recessed medium class PVC conduit as required. a) 2x2.5 sq. mm + 1x2.5 sq. mm earth wire	metre	40	5480.00
4	Supply and fixing following modular switch/ socket on the existing modular plate & switch box including connection but excluding modular plate etc. as required.			
	a) 5/6 Amp Switch	each	11	924.00
	b) 3 pin 5/6 Amp. socket outlet	each	11	891.00
	c) 15/16 Amp. switch	each	2	228.00
5	d) 6 Pin 15/16 Amp. socket outlet	each	2	306.00
	Supply and fixing following size/ modules GI box along with modular base & cover plate for modular switches in recess etc. as required			
6	a) 6 Module (200mm X 75mm)	each	2	516.00
	b) 4 Module (125 mm X 75 mm)	each	2	410.00
7	Supplying, fixing, testing and commissioning of LED 40 W horizontal 2' x 2' size complete with LED tube/ bulb, driver and other associate fittings etc. as required make Philips (model no. SM 36SC LED 33-6500/5000 PSU-OD WH) CIRRUS SURFACE MOUNTED	each	7	50582.00
8	Supplying, fixing, testing and commissioning of Green LED 10W surface mounted fixed/ adjustable and spot lights complete with LED bulb/ tube, driver and associated fitting. make Philips (Model no. DN170C LED10S-6500 PSU WH)	each	6	20868.00
8	Dismantling of old electric installation complete with existing fittings PVC s/c cable, conduit and switchboard etc. in conference room and to be handed over to SPA staff.	each	16	1600.00
Total				95905.00
Less 6.81% Contractor Enhancement				6527.04
Net Total				89277.96
Say Rs.				89278.00

Terms & Condition.

1. The work shall be completed within ten days from the start.
2. 2% Income tax will be deducted from the bill.
3. The supply will be given as per manufacture specification and entire satisfaction of Engineer in charge.
4. Vat will be deducted from the bill as per applicable.
5. 1% water/electrical charges will be deducted from the bill.
6. 1% Labour Cess charges will be deducted from the bill.

Assistant Engineer (Civil)

SCHEDULE OF WORK

Sub: Repairs to false ceiling, Roofing, white wash, covering of veranda and other miscellaneous works in temporary office at Vasant Kunj site SPA New Delhi.

S No	Description of work	Unit	Qty	Rate	Amount
1	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	Sqm	60	1005.35	60321.00
2	Providing and fixing regular roller blinds of approved shade and texture etc complete as per direction and entire satisfaction of the Engineer-in-charge.	Sqm	6.5	1600.00	10400.00
3	Refurbishing of chairs seat & back with approved cloth of required colour & shade by removing the existing cloth and repair of chair seat and back all complete as directed by Engineer-in-charge	each	16	850.00	13600.00
4	P/F 12 mm thick soft board (imported) celotex with 6mm thick commercial ply fixing with second class teak wood plug and screws and nails as directed by engineer-in-charge.	Sqm	20	1166	23314.00
5	Providing and laying 1.5mm thick PVC flooring	sqm	35	1195.00	41825.00
6	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (Cement: 4 coarse sand)	Sqm	20	259.15	5183.00
7	Repair of broken Gypsum Board False ceiling of urban Planning studios on fifth floor of Planning building	job	1	5000	5000.00
8	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	50	110.95	5547.50

		QTY	UNIT	PRICE	AMOUNT
10	Removing dry or oil bound distemper, water proofing cement paint and finishing by scraping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	250	10.8	2700
11	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification One or more coats on old work	Sqm:	350	29.8	10430
12	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work.	Sqm:	50	53.15	2657.5
13	Finishing walls with water proofing cement paint of required shade :Old work (one or more coats @ 2 20 kg/10 sqm) complete.	sqm	150	37.9	5685
14	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of thickness 4 mm	sqm	15	637.9	9568.5
15	welding/repair to door/window to make it operational by cutting, welding refixing in position whatever required as per direction of engineer incharge.	each	10	1000	10000
16	Providing and fixing aluminium tower bolts, 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 250x10 mm	each	10	88.1	881
17	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. : 100 mm	each	5	45.1	225.5
18	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	5	414.45	2072.25
19	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 10.16.1. Hot finished welded type tubes	kg	700	90.25	63175
20	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50 kg cement	15	47.95	719.25
21	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering --1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cum	7	5481.95	38373.65
22	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	25	5801.5	145037.5
	Total				327974.40
	Add 4% cost index and 1% Labour cess				16398.72
	Grand Total				344373.12

SCHEDULE III

Subject: Mobile working and painting work in old committee room studios of Urban Planning and Environmental Planning, Staircase all studios of Physical Planning of the SPA, New Delhi

Sl. No.	Description of work.	Unit	Qty	Rate	Amount
1	Plastering of brick or block wall with 12 mm thick plaster of paris in 1:4 ratio including sand and preparing and priming the surface, smooth including finishing, repairs to scratches etc. complete.	Sqm	730	26.5	19155
2	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer.	Sqm	10	422	4220
3	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. Old work (one or more coats)	Sqm	642.5	33.35	21411.88
4	Distemping with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification. Two or more coats on new work.	Sqm	20	55.15	1103
5	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an even shade : One or more coats on old work.	M ²	45	51.3	2308.5
6	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sqm	527.5	36.95	19491.13
6	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	527.5	84.45	44547.38
8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	527.5	87.35	46077.13
9	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1 cement : 4 fine sand)	M ²	10	264.8	2648
10	With cement mortar 1:4 (1 cement : 4 coarse sand)		10	274.8	2748
21	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.52.1 GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	Sqm	76	1041.95	79188.2
12	Providing and laying sun control film on Window glass Panes.	Sqm	31	650	20150
15	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead 15.33.3 Thickness above 25 mm up to 40 mm	Sqm	146.2	38.75	5665.35

		Sqm	7672	11657	8993250
16	Repair of Aluminum windows in respect of opening clo per sqm of opening in the wall	Each	10	70	700
17	Disposal of building rubbish / m/s/ba / similar waste material dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer in-charge, beyond 50 m initial lead for all leads including all lifts involved	qum	5	12055	60275
18	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Gray, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3 kg/sqm including pointing the joints with white cement and matching pigments etc., complete	sqm	10	747.9	7479
TOTAL					186574.70
Less 38.86% Contractor Enhancement					150222.93
Net Total					236351.77
Say Rs.					236352

Terms & conditions

- 1 The work shall be completed with in 20 DAYS from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.
- 2 2% Income tax will be deducted from the bill.
- 3 The work shall be carried out as per C.P.W.D: specification and entire satisfaction of engineer-in-charge
- 4 Vat will be deducted from the bill as per applicable.
- 5 1% Water Charges will be deducted from the bill.
- 6 1% Labour Ceas will be deducted from the bill.

A.E.
A.E. (Civil)

- 49 -

~~1000~~

SCHOOL OF PLANNING AND ARCHITECTURE-NEW DELHI

Name of Work: Addition/alteration in Library of Planning builds for making office to honorable Chairman SPA,
New Delhi

Schedule Of Work	Particulars	Unit	Qty	Rate	Amount (In Rupees)
	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.	sqm	30	24.3	729
	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Kiln seasoned and chemically treated hollock wood	cum	0.014	54,930.25	749.80
	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1.8	2372.80	4271.04
	Providing and fixing bright finished brass lower bolts (barrel type) with necessary screws etc. complete 9.74 1 250x10 mm	each	8	313.2	2505.6
	Providing and fixing bright finished brass hanging type floor door stopper, with necessary screws, etc. complete.	each	4.0	85.85	343.4
	Providing and aluminium die cast body tubular type universal hydraulic door closer (Having brand logo with ISI IS 3564 embossed on the body door weight up to 35 kg and door with up to 700mm) with necessary	each	2.0	414.45	828.9
	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position : Kiln seasoned and chemically treated hollock wood	cum	0.021	49465.1	1038.7671
	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	sqm	5	1005.35	5026.75

9	Providing and fixing partition and door pre-finished 12.5 mm thick double skin cement plastered and primed and finishing of frame work of 130 mm depth section power pressed roll form G.I. sheets with thickness of 120 gms sqm both side including installation of floor fixing channel 100mm wide having equal flanges of 32 mm and 25 mm thick fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener or 12.5 mm dia metal 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 9.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks. M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete 9.105.5.66 mm overall thickness partition using 8 mm thick double skin multipurpose cement bonded wood particle board manufactured as per IS: 14276 with suitable cement bonded board screws.	sqm	35	1222.6	42791
10	Providing and fixing bright finish brass 200mm mortise latch & lock with 6 levers and a part of lever handles of approved quality with necessary screws etc complete.	each	2	826.17	1652.34
11	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete : 2nd class teak wood 50 x 20 mm	sqm	14.2	154.75	2197.45
12	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	sqm	6.6	365.85	2414.61
13	Providing and fixing glass panes with all necessary fitting in wooden fillets: Float glass panes of thickness 4 mm		2	852.6	1705.2
14	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : 13.41.1 New work (two or more coats) over and including water thinnable priming coat with cement primer.	sqm	75	93.7	7027.5
15	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistem & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.3.1 W.C. pan with ISI marked white solid plastic seat and lid.	each	1	4593.75	4593.75
16	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistem with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.1 One urinal basin with 5 litre white P.V.C. automatic flushing cistem	each	1	3494.15	3494.15
17	Removing dry or oil bound distemper, water proofing cement paint and the like by scraping, sand papering and preparing the surface smooth including necessary repairs to scratches etc.	sqm	35	10.8	378

	French joint polishing Two or more coats on new works including a coat of wood filler	sqm	35	309.75	3247
20	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-in-Charge	sqm	4	368.9	1475.6
21	Dismantling W C Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge	each	2.5	55.45	138.625
22	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1-cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	sqm	15	1119.4	16791
23	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS: 15622 (thickness to be specified by 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 sqm including pointing in white cement mixed with pigment of matching shade complete. sqm 660.20	sqm	15	660.2	9903
Total					116466
Less 7.86% Contractor Enhancement					9154
Net Total					107312

Terms & Conditions:

- 1 The work shall be completed within One Month from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.
- 2 2% income tax will be deducted from the bill.
- 3 The work shall be carried out as per C.P.W.D. specification and entire satisfaction of Engineer-in-charge.
- 4 D-VAT will be deducted from the bill as per applicable.
- 5 1 % water charges will be deducted from the bill
- 6 1 % labour Cess will be deducted from the bill


 Assistant Engineer (Civil)

Appendix - 03 BWC / XX

Subject: Supply and installation of Boats along the Docks of SPA, New Delhi

S.No	ITEM	Qty.	RATE	AMOUNT
1	Walls :- Sandwiched Wall Panels of 50mm thick made out of both sides 6mm thick Cement fibre board in between thermocole of 38mm thick. Roof:- Sandwiched Roof panels 75mm thick (insulated panels made out of 0.63mm GI Sheets on both sides with insulation of thermocole of 75mm thick) with principles & hardware.	(Area 245sqm) 10ft x 30ft 805ft	300/-	245000/-
2	Door:- MS frame waterproof flush door with aluminium handle L-drop for locking arrangements and door closer. As Approved Make by engineer incharge.	D-1=3Ftx7Ft 1No	6000/-	6000/-
3	Window:- plain aluminum sliding 5mm glass window with locking arrangements.	S/W=3Ftx3Ftx4Nos 365ft	5000/-	5000/-
4	Finishing & Paint work :- Outside texture coating inside OBD paint make Nerolac/Shalimar/Berger of desired colour. As Approved Make by engineer incharge.		Lump Sum	20000/-
5	Seatty :- Seatty with sliding cupboard made out of boiling water proof ply As Approved Make by engineer incharge.	7.5ft x 1.8ft x 2ft ht 1No	10000/-	10000/-
6	Electrical:- Taking underground electrical connection from SPA main electrical panel. Electrical points Anchor Roma make including pvc battens with internal wiring (wire use Kalinga gold/Finolex) with Led tube Light Fitting. As Approved Make by engineer incharge.	5 Amp point- 4Nos. 15 Amp point- 1No. Tube-light- 2nos.(2ftx40wt) Door light -1no. Ceiling fan-1no. MCB board	8000/-	8000/-
7	Erection /Installation charges at SPA site	on above all	10000/-	10000/-
8	Making of Plinth :- Digging/dressing and making of 9" boundary bricks walls with desired columns wall height from GL up to 24" and foundation depth -18" and making of PCC flooring 2.5inch thick on average with cement plaster and earth filling with malba/ brick bats including making of steps and final finish complete on top of that tiles 30cm x 30cm As Approved Make by engineer incharge.	11ft x 12ft 1325ft	200/-	26400/-

	Transportation charges from Delhi workshop to your site in Delhi	Lump Sum	Lump Sum	18600
10	Grand. Total- Including All Taxes			219400/-
	In words:- Rupees two lacs nineteen thousand & four hundred only.			

Terms & Conditions

- 1 The work shall be completed within 30 days from the date of issue of work order otherwise penalty will be imposed which may vary up to 10% on gross amount of bill
- 2 2% Income tax will be deducted from the bill
- 3 Vat will be deducted from the bill as applicable.
- 4 1% water/Electric charges will be deducted from the bill.
- 5 The work shall be carried out as per CPWD specification and to the entire satisfaction of the engineer incharge.
- 6 10% security will be deducted on the estimated cost and will be released after successful completion of liability period of One Year.
- 7 1% Labour Cees will be deducted from the bill


A.E. (Civil)

Appendix - 03 Bux / XXI

SCHOOL OF PLANNING, UNIVERSITY OF DELHI

Name of Work: Additional Allocation in B.B. Department SP/100/02/2012

Schedule Of Work:

Sl. No.	BSR No.	Particulars	Unit	Qty.	Rate	Amount (in Rupees)
1	9.1.3/144	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.3 Kiln seasoned and chemically treated hollock wood	each	0.014	54,930.25	749.80
2	9.20.2/148	9.20 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 9.20.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1.8	2372.80	4271.04
4	9.97.2/158	Providing and fixing aluminium lower bolts, 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 9.97.2 250x10 mm each 95.25	each	2	88.1	176.20
5	9.101.2/159	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. 9.101.2 Twin rubber stopper each 83.95	each	2.0	38.00	76.00
6	9.3.2/144	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position : 9.3.2 Kiln seasoned and chemically treated hollock wood	cum	0.116	49465.1	5759.72
7	9.37.1/151	9.37 Providing and fixing plywood 6 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with : 9.37.1 Decorative veneer facings of approved manufacture	sqm	20	1030.7	20614.00

3	MR	Providing and fixing the glass panes of 2nd class mortise latch & lock with 3 levers and a pair of lever handles of appropriate quality and necessary screws etc complete	NO	1	325.17	325.17
9.40.1/9.151		9.40 Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete 9.40.1 2nd class teak wood 50 x 20 mm	sqm	14.2	154.75	2197.45
9.23/10.148		Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured) sqm 365.85	sqm	6.6	365.85	2414.61
14.6.1/11.242		Renewing glass panes and refixing existing wooden fillets: Float glass panes of thickness 4 mm		2	852.6	1705.20
Total						38790
ADD 10.76 % contractor Enhancement						4174
Grand Total						42964

Terms & Conditions:

- 1 The work shall be completed within One Month from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.
- 2 2% income tax will be deducted from the bill.
- 3 The work shall be carried out as per C.P.W.D. specification and entire satisfaction of Engineer-in-charge.
- 4 Vat will be deducted from the bill as per applicable.
- 5 1 % water charges will be deducted from the bill

Handwritten signature

Subject: Providing and fixing of

Amount

	Providing and fixing of 100 mm thick plaster of paris to walls and ceiling as indicated in drawing to be done in right angle opposite direction for 100 mm wide joints upto 10 mm dia etc. complete		252	22.8	5728
2	Cutting holes up to 10x10 cm in wall including making good the hole with 1:3 cement concrete hard clay 7:1:5 (non modular) bricks	110	40	207.95	8318
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to plinth level 1:1:3 (1 Cement: 1 1/2 coarse sand: 3 graded stone aggregate 20 mm nominal size)	Cum	05	5970.6	2985
4	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/sq mm with tape (0.52 mm thick) and weight 43.478 gm/metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Mtr	106	287.05	30427
5	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead:	Sqm	5	259.15	1296
6	14.1.2 With cement mortar 1:4 (Cement: 4 coarse sand) Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade: 14.45.1 Old work (one or more coats)	Sqm	515.16	32	16485
7	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	100	9.9	990
8	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	2	123.7	247
	TOTAL				78516
	Less 5% Contractor Enhancement				4717
	Net Total				73899

Terms & conditions
 1. The work shall be completed within **ONE MONTH** from the date of issue of work order otherwise 1% penalty per day up to a maximum of 10% shall be imposed on gross amount of bill.
 2. 2% income tax will be deducted from the bill.
 3. The work shall be carried out as per C.P.W.D. specification and entire satisfaction of engineer-in-charge.
 4. 1% Water Charges will be deducted from the bill.