



NISE

No. A-04/004/2020-21/NISE/Admn/(EC)
NATIONAL INSTITUTE OF SOLAR ENERGY
(An autonomous Institute of Ministry of New & Renewable
Energy)
Gwal-Pahari, Gurugram

Minutes of the 45th Meeting of the Executive Committee of National Institute of Solar Energy.

The 45th Meeting of the Executive Committee (EC) of National Institute of Solar Energy (NISE) was held on 20th March, 2023 at 06:00 PM in Conference Room, 2nd Floor, Surya Bhawan, NISE Gurugram-122003 under the Chairmanship of Sh. Lalit Bohra, Director General, NISE. The meeting was attended by following:

S.No.	Name of Member	Designation	Remarks
(i)	Shri Lalit Bohra, DG, NISE	Chairman	Through Online mode
(ii)	Dr. Chandan Banerjee, DDG, NISE	Member	Present
(iii)	Dr. Jai Prakash, DDG, NISE	Member	Present
(iv)	Shri Anil Kumar Yadav, Director (Admin), NISE	Member	Present
(v)	Shri A. Vijay Kumar, Deputy Director (Admin)	Member Convener	Present

DG NISE welcomed all the members of the Executive Committee of NISE. The item-wise agenda was taken up for discussion and the decisions taken by EC are as follows:

Agenda Item No. 1: To grant leave of absence to the Members, not present in the meeting.

All the members were present in the meeting. In addition to the EC Committee members, Shri Dhananjay Pandey, Assistant Director (Admin) also attended the meeting.

Agenda Item No. 2 : Extension regarding Reimbursement of Medical Insurance for Regular Staff of NISE.

Shri A Vijay Kumar, DD(Admin) apprised the committee members regarding existing Office Order No. A-07/12/2017-NISE (Admin) (Part) dated 29.06.2021 (attached at **Annexure-I**) in respect of reimbursement of Medical Insurance Policy for regular staff of NISE. The order dated 29.06.2021 was made applicable for the Financial Year 2021-22. However, there were no changes in the medical policy order after



31st March 2022, therefore, to safeguard the interest of employees working in NISE Gurugram, the same Order No. A-07/12/2017-NISE (Admin) (Part) dated 29.06.2021 may be extended till the time any new provisions/ guidelines for Medical Policy Reimbursement is adopted. The approval of EC is requested for extension of the said order.

Decision: EC approved the above proposal for the extension of the Order No. A-07/12/2017-NISE (Admin) (Part) dated 29.06.2021 till the time any new provisions/ guidelines for Medical Policy Reimbursement is adopted in NISE.

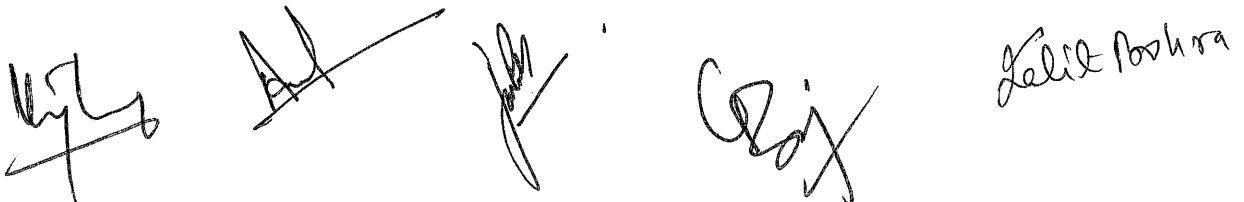
Agenda Item No. 3.0: Various urgent civil and electrical works to be executed in NISE.

Shri A Vijay Kumar, DD(Admin) apprised the Committee that following Civil and Electrical works needs to be taken up in NISE on urgent basis:-

Sr. No.	Subject	Estimated Cost
1.	Construction of Building including internal Electrical works for PV-Fire Test Setup Facility	₹ 88,00, 000/-
2.	Rectification and Repairs of HVAC (Heating, Ventilation, and Air Conditioning) Works	₹ 55,00,000/-
3.	Rectification and repairs of STP (Sewage Treatment Plant) & WTP (Water Treatment Plant) Works & Renovation and Repair works in Surya Bhawan Canteen Kitchen and Washrooms at NISE Campus	₹ 93,00,000 /-
4.	One time rectification and repair of Fire Hydrant System (Fire Fighting, Fire Alarm and Public Address system) installed in Surya Bhawan at NISE Campus by NBCC Services Limited	₹ 1,12,00,000/-
Total		₹ 3,48,00,000/-

The above listed work were discussed during the TEPC-IV meeting dated 21.02.2023. The minutes of the meeting is attached as **Annexure-II**. The work mentioned in Sr. no. 1 is a new construction while other works listed in Sr. no. 2, 3 & 4 are of repair, rectification and renovation nature.

The TEPC-IV after detailed discussion agreed on the urgent need for the above listed work (sr. no. 1 to 4) at an approximate cost of ₹ 3,48,00,000/- (Estimate Attached as **Annexure-III**) . Considering the similar nature and total overall cost of various works, the committee recommended to take a consolidated blanket approval for the total cost ₹ 3,48,00,000/- as per the powers delegated to Executive Committee of NISE under




Sr. No. 4 and 6 of NISE DoP (Annexure- IV). The TEPC-IV considered the urgency and the provision under GFR rule 133(3)(i), and recommended to take necessary approval from **Executive Committee (EC)** of NISE to float Open Tender Enquiry for inviting quotations from any Public Sector Undertakings (PSUs) set up by the Central or State Government specialized to carry out Civil and Electrical works for execution of the said work.


Decision: Executive Committee accorded its approval for floating Open Tender Enquiry for inviting quotations from any Public Sector Undertaking (PSUs) set up by the Central or State Government specialized to carry out Civil and Electrical works for execution of the above said work as per the provisions under GFR rule 133(3)(i). The Executive Committee also approved the total cost of **₹ 3,48,00,000/- (Rupees Three Crore Forty Eight Lakhs Only)** for the above listed work in **Agenda Item 3**, as per the powers delegated to Executive Committee of NISE under Sr. No. 4 and 6 of NISE DoP.

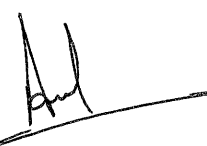
Agenda Item No. 4.0: Any other item with the permission of Chair.

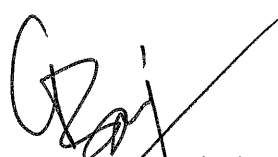
Any other item with the approval of Chairman of Executive Committee.

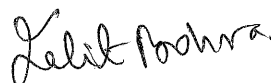
Decision: With no other matter to discuss, the meeting ended with a vote of thanks to the Chair.


(A Vijay Kumar)
Member Convener


(Dr. Jai Prakash)
Member


(Anil Kumar Yadav)
Member


(Dr. Chandan Banerjee)
Member


(Lalit Bohra)
Chairman

6848/2021/O/o DDG




राष्ट्रीय सौर ऊर्जा संस्थान
National Institute of Solar Energy

(एन और ऑटोनॉमस इंस्टीट्यूट ऑफ मिनरे, भारत सरकार का स्वायत्त संस्थान)

(An Autonomous Institute of MNRE, Government of India)

गुरुग्राम फरीदाबाद मार्ग, ग्वालपहाड़ी, गुरुग्राम - 122003, हरियाणा, भारत
Gurugram-Faridabad Highway, Gwal Pahari, Gurugram - 122 003, Haryana, India

दूरभाष / Tel. No. : 0124-285 3060, 3079, 3009

वेबसाइट / Website : www.nise.res.in

No. A-07/12/2017-NISE (Admn) (Part)


Date: 29th June, 2021OFFICE ORDER**Subject: Medical Insurance for Regular Staff of NISE-reg.**

1. Please refer NISE's OM No. A-07/12/20-21/NISE-(Admin) dated 27.05.2021 and decision taken in 37th Executive Committee of NISE, It is decided that Individual Medical Insurance policy may be taken by individual employee on reimbursement basis for the current year 2021-22. Medical Insurance sum insured ceiling is mentioned in table below:

Employees Pay Level	Medical Insurance Sum Insured (cumulative for a family)
Level-12 & above	Up to Rs. 20.00 Lakhs
Up to Level-11	Up to Rs. 15.00 Lakhs

2. The above will be effective from 01-April-2021 onwards.

This issued with the approval of the Competent Authority.


(Aakanksha Sharma)
Administrative Officer

Copy to:

1. DG Office, NISE
2. All officers concerned
3. Finance & Account Division
4. Concerned file
5. Guard File.



राष्ट्रीय सौर ऊर्जा संस्थान
National Institute of Solar Energy

(An Autonomous Institution of Ministry of New and Renewable Energy)
गुरुग्राम - फरीदाबाद मार्ग, खाल पहाड़ी, गुरुग्राम - 122 003, हरियाणा, भारत
Gurugram-Faridabad Road, Gurugram - 122 003, Haryana, India
दूरभाष/ Tel. No.: 0124-2853008
ईमेल/ Email : dgnise.mnre@gmail.com, nise.mnre@gmail.com
वेबसाइट/ Website : www.nise.res.in

Date: 21.02.2023

Minutes of Meeting

Sub: Technical Evaluation cum Purchase Committee (TEPC-IV) Meeting for proposal of Construction of Building including internal Civil and Electrical work of Surya Bhawan at NISE, Gurugram.

Meeting of Technical Evaluation cum Purchase Committee (TEPC-IV) was held on **21.02.2023 at 04:30 PM** in Conference Room, 2nd Floor, Surya Bhawan under the Chairmanship of Deputy Director General, NISE, Gurugram.

2. The following members of purchase committee (TEPC-IV) were present in the meeting: -

- | | | |
|---|---|------------------|
| i. Dr. Chandan Banerjee, DDG | - | Chairman |
| ii. Shri Anil Kumar Yadav, Director (Admin) | - | Member |
| iii. Shri Sandeep Sehrawat, DD (Admin) | - | Member |
| iv. Shri Arup Dhar, AD (Tech.) | - | Member |
| v. Shri Dhananjay Pandey, AD (Admin) | - | Member Secretary |

3. The following proposals were submitted before the TEPC-IV

Agenda items 1: Review of various ongoing works through CPWD.

AD (Admin) appraised the committee regarding the below listed work awarded to CPWD, out of which various works have been delayed due to re-tendering or slow progress. The quality related issues in construction of roads and other complaints related to road work have been informed to CPWD. However, no reply in this regards has been received in NISE. Account Division of NISE has also raised concern regarding settlement of advance deposited to CPWD. This advance amount could not be settled by the admin division as the work is still under progress and CPWD has not provided the utilization of the funds with respective schedule of completed items:-

campus for Solar PV Module as per IS/IEC 61730-2:2016 –MST 23. This test setup would broaden the testing facilities as per different Indian and International standards along with enhancing testing revenue for NISE. The tendering process for the equipment is going on and PO shall be issued soon. For housing the PV-Fire Test Setup equipment, NISE needs to construct a new building.

In view of the above NISE approached NBCC Services Limited for preparing the estimate for execution of the said work. The said work is estimated at an approximate cost of ₹ 88,00,000/- (Rupees Eighty Eight Lakh Only). The estimate of the said work is attached as Annexure -I

Recommendation:

The Committee after detailed discussion agreed on the urgent need for the said work. Further committee evaluated the estimates submitted by NBCC Services Limited and recommended for construction of fire test setup building at new site at an estimated cost of ₹ 88,00,000/-. The committee considered the provision under GFR rule 133(3), rule 194 & rule 204 and recommended to take necessary approval from competent authority to float Open Tender Enquiry for inviting quotations from Public Sector Undertaking (PSUs) specialized to carry out Civil and Electrical works for execution of the said work.

Agenda items 3: Rectification of defects and Repairs of existing HVAC (Heating, Ventilation, and Air Conditioning) system fitted in Surya Bhawan in NISE.

Mode of Procurement: Open Tender Enquiry for PSUs participation only.

Budget Head: C-02 (Renovation / Retrofitting in existing lab/ building)

Estimated Cost: ₹ 55,00,000/-

AD (Admin) appraised the committee regarding an urgent need for rectification and repairs of HVAC system. HVAC Plant was commissioned as a part of newly constructed Surya Bhawan building and the total cost of HVAC Plant separately is not available. HVAC Plant started operation during May 2015. It has been observed that the HVAC system is not performing well at various section of Surya Bhawan. Further, HVAC Operator of NISE, along with JE, Electrical (engaged through outsource agency) have examined the system and reported an urgent need for servicing of HVAC Plant as the display of two Chiller machines out of three is not working. These Chiller machines and Condenser are considered as critical equipment in HVAC Plant, therefore, there is an urgent need of rectification, repair and servicing of HVAC Plant. HVAC Plant has not gone through any repair or service cycle since its installation and commissioning in 2015. As per the

places in and around toilets area. Doors of toilets are also damaged due to termite and needs urgent repair. Wall tiles around the installed urinals are broken and need fixing of new wall tiles.

Therefore, NISE invited NBCC Services Limited to conduct a technical inspection of the installed plant along with repair works of Surya Bhawan Canteen Kitchen and Surya Bhawan Washrooms and submit an approximate estimate for the said work. As per the inspection done by the technical team of NBCC Services Limited. The said work is estimated at an approximate cost of ₹ 93,00,000 (Rupees Ninety Three Lakhs Only). The estimate of the said work is attached as Annexure -III.

Recommendations:

The Committee after detailed discussion agreed on the urgent need for the said work. Further committee evaluated the estimates submitted by NBCC SERVICES LIMITED and recommended for Rectification and repairs of STP (Sewage Treatment Plant) & WTP (Water Treatment Plant) along with Repair works in Surya Bhawan Canteen Kitchen and Surya Bhawan Washrooms at NISE Campus at an estimated cost of ₹ 93,00,000/-. The committee considered the provision under GFR rule 133(3), rule 194 & rule 204 and recommended to take necessary approval from competent authority to float Open Tender Enquiry for inviting quotations from Public Sector Undertaking (PSUs) specialized to carry out Civil and Electrical works for execution of the said work.

Agenda items 5: One time rectification and repair of Fire Hydrant System (Fire Fighting, Fire Alarm and Public Address system) installed in Surya Bhawan at NISE Campus by NBCC Services Limited.

Mode of Procurement: Open Tender Enquiry for PSUs participation only.

Budget Head: C-02 (Renovation / Retrofitting in existing lab/ building)

Estimated Cost: ₹ 01,12,00,000/-

AD (Admin) appraised the committee regarding an urgent need for rectification and repair of Fire Hydrant System which includes Fire Fighting, Fire Alarm and Public Address system. The total cost of the system separately is not available. Fire Hydrant System started operation during May 2015. It has been observed that the system is not performing well in various section of Surya Bhawan. Further, system's Operator of NISE, along with JE, Electrical and JE, Civil (engaged through outsource agency) have examined the system and reported an urgent need for repair and rectification of Fire Hydrant System installed in Surya Bhawan.

Handwritten signatures: Luby, Lish

Handwritten signature: AD

Handwritten signature: CDH

**Powers of Governing Council (GC)
and
Executive Committee (EC)**

Sr. No.	Subject Matter	Governing Council (GC)	Executive Committee (EC)
1.	To receive financial contribution from abroad	Full Powers –President, GC. Item to be reported to the GC in the next GC Meeting for information. Subject to FCRA clearance.	
2.	Approval for deputing DG abroad	Full Powers – President , GC With the prior approval of Secretary, MNRE	
3.	Purchase of land/building	Full Powers – President , GC. With prior approval of FC/GC subject to following the relevant rules/instructions issued by Gol from time to time on the subject.	
4.	Construction of building, Interiors or site preparation	Full Powers –President , GC. Item to be reported to the GC in the next GC Meeting for information. Subject to following the relevant provisions of GFR 2005	Up to Rs. 5.0 crore at a time; Item will be reported to GC in the next meeting. Subject to following the relevant provisions of GFR 2005
5.	Purchase of Indian /foreign made Capital equipment, software, technical stores like raw material, components, consumables /semi consumables including fabrication of equipment.	Full Powers –President , GC. Item to be reported to the GC in the next GC Meeting for information. Subject to following the relevant provisions of GFR 2005	Full powers up to Rs. 5.0 crore per item Subject to following the relevant provisions of GFR 2005
6.	Repairs and Maintenance of Civil Work including electrical fittings / installation		Full Powers. Subject to following the relevant provisions of GFR 2005
7.	Creation of Regular Posts	Full Powers to create regular posts in case of Group B,C, &D posts. For Group A posts Full powers with the approval of Ministry of Finance, Department of Expenditure and extant of instructions	
8.	Approving signing of MOUs / Contract agreement with foreign parties for achievement of objectives of the society	Full Powers –President, GC – subject to (i) following the relevant rules/regulations on the subject & (ii) ratification by GC	Full Powers – Chairman , EC. The matter to be reported to full EC and GC in the next meeting.



Annexure - III

11

एनबीसीसी सर्विसेज लिमिटेड
NBCC SERVICES LIMITED

(A Wholly Owned Subsidiary of Navratna CPSE NBCC (INDIA) LIMITED)

No: NSL/DGM/NISE/2022/548

Date: 28.01.2023

The Director General,
National Institute of Solar Energy,
Gwal Pahadi, Faridabad Road,
Gurugram.

**Sub: Estimate for Construction of Building including internal Electrical works for
PV-Fire Test Setup at NISE, Gwal Pahadi, Gurugram. (at new site)**

Dear Sir,

This has reference to the site visit conducted in Dec 2022, we are attaching herewith the estimate for Construction of Building including internal Electrical works for PV-Fire Test Setup at NISE, Gwal Pahadi, Gurugram **(at new site)**. The estimate is to the tune of Rs. 87,94,991.00 including PMC charges@15% and GST as applicable.

This is for your kind information and apporval please.

Thanking You,

Yours faithfully,

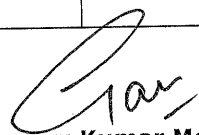
गौरव कुमार मीना / GAURAV KUMAR MEENA
उप महाप्रबन्धक / Dy. General Manager
एनबीसीसी सर्विसेज लिमिटेड / NBCC SERVICES LIMITED
(भारत सरकार का उपक्रम / A Govt. of India Enterprise)
Dy. General Manager

Encl: As above

महानिदेशक रा. सौ. ऊ. स.
Director General NISE
डायरी नं. / Diary No... 26.....
In... 03/02/2023.....
Out... 03/02/2023.....

**Summary of work for Construction of Building including internal Electrical works for PV-
Fire Test Setup at NISE, Gwal Pahadi, Gurugram**

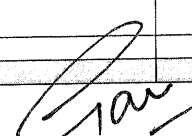
S.NO.	DESCRIPTION	AMOUNT (Rs.)	REMARKS
1	Modification renovation in PV Works shop works at NISE, Gwal Pahadi, Gurugram	7647818.40	
2	Sub Total (A)	7647818.40	
3	Amount before GST (A/1.18)	6481202.03	
4	Add NSL's PMC charges @ 15%	972180.31	
5	Total	7453382.34	
6	Add GST@ 18%	1341608.82	
7	GRAND TOTAL Rs.	8794991.00	


(Gaurav Kumar Meena)
Dy General Manager

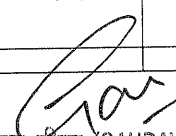
गौरव कुमार मीना/GAURAV KUMAR MEENA
उप महाप्रबन्धक/DY. GENERAL MANAGER
एनबीसीसी सर्विसेज़ लि०/NBCC SERVICES LTD.
(भारत सरकार का उद्यम/A Govt. of India Enterprise)

Estimate for work for Construction of Building including internal Electrical works for PV-Fire Test Setup at NISE, Gwal Pahadi, Gurugram

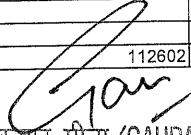
S. No.		Unit	Quantity	Rate	DSR Amount	Non DSR Amount	Comments
Sub Head I - Civil Works							
1	DSR Ref Civil 2021	Item					
1.1	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
1.2	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	CuM	90.00	8,512.10	766089	
1.3	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	CuM	11.00	8,288.35	91171.85	
2							
2.1	9.21	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:	Sqm	22.00	2,015.75	44,346.50	
2.2	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws					
	9.23	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	22.00	401.40	8,830.80	
	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):	Sqm	22.00	173.95	3,826.90	
	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	22.00	93.65	2,060.30	
	MR	Providing and fixing ISI marked 1.5 mm thick decorative laminated sheet on flush door	Sqm	44.00	1,088.00	47872.00	
	2.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.	Nos.	1.00	21,000.00	21,000.00	
	10.6						
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	10.20	3,008.80	30,689.76	
	10.7	Providing and fixing ball bearing for rolling shutters.	Each	14.00	424.20	5,938.80	
	10.8.1	Extra for providing mechanical device chain and crank operation for operating rolling shutters.Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	10.20	1,108.70	11,308.74	
	10.9	Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).	Sqm	5.00	668.95	3,344.75	
3							


गौरव कुमार मीना/GAURAV KUMAR MEENA
 उप महाप्रबन्धक/DY. GENERAL MANAGER
 एनबीसीसी सर्विसेज लि०/NBCC SERVICES LTD.
 (भारत सरकार का उद्यम/A Govt. of India Enterprise)

3.1	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. (Chemical bolting including cost of chemical , drilling required for anchoring shall be paid under same item)	Kg	500.00	142.30	71150	Rate other than the material cost to be reverified
4							
4.1		Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	Cum	60.00	8,277.55	496653	
	16.75						
4.2	MR	Providing and laying of Epoxy finish on flooring and 100mm high at wall from floor finish as per Tremix or equivalent Manufacturers standard.	SqM	320.00	900.00	288000	Nitoflor Hardtop (Alternative Option)
4.3	16.88	Providing and laying matt finished / anti skid vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.	SqM	320.00	1,866.20	5,97,184.00	
5							
Concrete- Plain & Reinforced							
5.1	A)	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.					
	4.20.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	CuM	20.00	8,033.20	1,60,664.00	Structural Details Required
5.2		RCC					

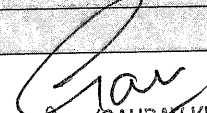

 गौरव कुमार मीना / GAURAV KUMAR MEENA
 उप महाप्रबन्धक / DY. GENERAL MANAGER
 एनबीसीसी सर्विसेज लि० / NBCC SERVICES LTD.
 (भारत सरकार का उद्यम / A Govt. of India Enterprise)

	A)	Providing and laying M-25 grade design mix/ standard as decided by Engineer In Charge in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level, coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources as per relevant IS Codes.	CuM	50.00	8,500.00	425000		Structural Details Required
5.3		Reinforcement						
	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level	Kg	2500.00	89.65	224125		
	B)	Truss System	Kg					Truss Details Required. LS amount provided currently.
		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. (Chemical bolting including cost of chemical, drilling required for anchoring shall be paid under same item)	Kg	9200	142.3	1309160		
	C)	Roofing System						
	MR	Providing and fixing of 0.55 mm TCT (Total coated thickness) trapezoidal profile polyester coated steel roofing sheet, cladding and flashings with a minimum 150mm end lap and side laps shall be as per standard spacing. Silicon sealant shall be used in all end laps whereas self drilling stitching screws shall be used for side lap joints. The side laps shall be lapped away from the prevailing wind direction. Minimum length of sheet shall be 5.0 m Measurement of the executed work will be inclined in plan area measured from ridge to eaves and side to side including end and side laps.	SqM	375.00	1,350.00	506250		
5.4		Formwork for R.C.C. Column						
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for						
	4.3.1	Foundations, footings, bases for columns	SqM	120.00	669.55	80,346.00		
	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	SqM	150.00	804.25	1,20,637.50		
6		Wall Finishes						
		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	15.58	1,063.45	16,568.55		
6.2		Plaster						
	13.1	CEMENT PLASTER (IN FINE SAND)						
	13.1.1	12 mm cement plaster of mix :						
	13.1.2	1:4 (1 cement: 4 fine sand)	SqM	750.00	335.00	251250		
	B)	20 mm cement plaster of mix :						
		1:4 (1 cement: 4 fine sand)	SqM	280.00	402.15	112602		

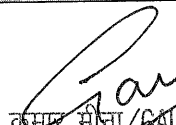

 गौरव कुमार मीना/GAURAV KUMAR MEENA
 उप महाप्रबन्धक/DY. GENERAL MANAGER
 एनबीसीसी सर्विसेज़ लि०/NBCC SERVICES LTD.
 (भारत सरकार का उद्यम/A Govt. of India Enterprise)

6.3		Painting					
		Internal Painting					
	13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, 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	750.00	92.75	69562.5	
	13.42.2	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer	SqM	750.00	64.45	48337.5	
		External Painting					
	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade : 13.46.1 New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	SqM	220.00	166.85	36707	
	13.61.1	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	2950.00	131.45	387777.5	
		Makign ready					
		Earth work					
	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. 2.6.1 All kinds of soil	SqM	95.00	206.45	19517.75	
		Anti Termite Treatment					
	2.35.3.1	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	SqM	372.00	256.15	95287.8	
	2.35.3.1	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : 2.35.1 Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete: 2.35.1.1 With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	Rmt	1250.00	32.30	40375	
		Total of Civil works				5839512.501	554122
		Add Cost Index (107 as on 16.11.2022 over 2021 DSR and GST 1.0633 factor on)				6643794.40	
		Total of Sub Head I - Civil works (DSR+NDSR Amount)				7197916.40	

Sub Head II - Electrical Works


 गौरव कुमार मीना / GAURAV KUMAR MEENA
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DSR Ref E&M 2022	Item					
1.1	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 medium class PVC 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.					
1.10.3	Group C	Point	15.00	1467.00		22005
1.55	Wiring for group controlled (looped) light point/ fan point/call bell point (without independent switch etc.) with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
1.55.3	Group C	Point	15.00	858.00		12870
1.5	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	315.00	433.00		136395
1.6	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	315.00	662.00		208530
1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
1.24.1	5/6 amps switch	Each	35.00	103.00		3605
1.24.3	15/16 amp switch	Each	20.00	156.00		3120
1.24.4	3 pin 5/6 amp socket outlet	Each	20.00	122.00		2440
1.24.5	6 pin 15/16 amp socket outlet	Each	10.00	197.00		1970
1.24.8	Bell Push	Each	2.00	140.00		280
1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	35.00	40.00		1400
1.27	Supplying and fixing following size/module, GI box along with Modular base & cover plate on existing modular metal boxes etc. as required.					
1.27.1	1 or 2 Module	Each	5.00	298.00		1490
1.27.2	3 Module	Each	6.00	327.00		1962
1.27.3	4 Module	Each	6.00	343.00		2058
1.27.4	6 Module	Each	6.00	402.00		2412
1.27.5	8 Module	Each	6.00	454.00		2724
1.27.6	12 Module	Each	3.00	547.00		1641
MR	Lights as per actual requirement	L.S	1.00	45000.00		45000
Total of Sub Head II - Electrical Works						449902
Grand Total Amount (Sub Head I + Sub Head II)						7647818.40


 गौरव कुमार मीना / GAURAV KUMAR MEENA
 उप महाप्रबन्धक / DY. GENERAL MANAGER
 एनबीसीसी सर्विसेज़ लि० / NBCC SERVICES LTD.
 (भारत सरकार का उद्यम / A Govt. of India Enterprise)



2

No: NSL/DGM/NISE/2022/545

Date: 24.01.2023

The Director General,
National Institute of Solar Energy,
Gwal Pahadi, Faridabad Road,
Gurugram.

Sub: Estimate for One time rectification and repairs of HVAC WORKS at NISE, Gwal Pahadi, Gurugram.

Dear Sir,

This has reference to the site visit conducted in Dec 2022, we are attaching herewith the estimate for One time rectification and repairs of HVAC WORKS at NISE, Gwal Pahadi, Gurugram. The estimate is to the tune of Rs.54,44,388.00 including PMC charges@15% and GST as applicable.

This is for your kind information and apporval please.

Thanking You,

Yours faithfully,
गौरव कुमार मीना / GAURAV KUMAR MEENA
उप महाप्रबन्धक / DY. GENERAL MANAGER
एनबीसीसी सर्विसेज लि० / NBCC SERVICES LTD.
(भारत सरकार का उद्यम / A Govt. of India Enterprise)
(Gaurav Kumar Meena)
Dy. General Manager

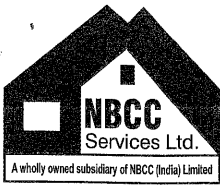
Encl: As above

महानिदेशक रा. सी. ऊ. स.
Director General NISE
हाथरी स. / Diary No... 23.....
In... 08/02/2023.....
Out... 02/02/2023.....

One time rectification and repairs of HVAC WORKS at NISE, Gwal Pahadi, Gurugram

Sr. No.	Description	Type of Fault	Make	Material/Service Required	Rate	UOM	Qty	Amount	Location	Remarks
1	Chiller: Chiller No: 01, 02 & 03	Display Problem	Trane	Display	710000.00	Nos	3	2130000.00	AC Plant Room	
2	Chiller No: 01, 02 & 03	Insulation Missing	Trane	25 mm Nitrile Insulation with Alluminium Cladding	30000.00	Nos	3	90000.00	AC Plant Room	Includes Header insulation as well
3	Chiller No: 01 & 02	Interlocking Problem	Trane	N/A	5000.00	Nos	3	15000.00	AC Plant Room	Pump Interlocking need to check
4	Chiller No: 03	Not working	Trane	Technician visit charges for initial diagnosis	20000.00	Nos	1	20000.00	AC Plant Room	Screen is blank need to check after replacement of touch panel/display. Any fault detected after diagnosis shall be claimed on actual basis.
5	ChillerNo: 01 & 03	Chilled Water Temperature sensor reading error	Trane	Water Temperature Sensor required.	26000.00	Nos	2	52000.00	AC Plant Room	
6	Chiller No: 01, 02 & 03	High Discharge Pressure due to scaling	Trane	Descaling Required	35000.00	Nos	3	105000.00	AC Plant Room	
7	Condenser Water Pumps:									
7	Pump No: 01~04	High Vibration & Noise	Armstrong	Alignment & Overhauling Required	30000.00	Nos	4	120000.00	AC Plant Room	Overhauling include replacement of Bearings & Mechanical Seal
8	Chilled Water Pumps:									
8	Pump No: 01~04	High Vibration & Noise	Armstrong	Alignment & Overhauling Required	25000.00	Nos	4	100000.00	AC Plant Room	Overhauling include replacement of Bearings & Mechanical Seal
9	Chilled Beam Pump:									
9	Pump No: 01~04	High Vibration & Noise	Armstrong	Alignment & Overhauling Required	20000.00	Nos	4	80000.00	AC Plant Room	Overhauling include replacement of Bearings & Mechanical Seal
10	Pump No: 01	Motor Starter burnt out	Armstrong	Motor Starter Parts & labour Work	17500.00	Nos	1	17500.00	AC Plant Room	Overload Relay, Timer Relay etc.
11	CT No: 01~03	Tower's fms choked, Header & Nozzle Work	Bell	Fins, Header & Nozzle and Leakages repairing work	175000.00	Nos	3	525000.00	Terrace	Includes complete repairing of Cooling Tower
12	CT No: 01~03	Paint faced 6" & 8"	Bell	Re-painting of Water Lines	150000.00	Lot	1	150000.00	Terrace	Includes Primer & Two layer of paint coating
13	Air Handling Unit:									
13	AHU 1	Push Button Starter, contactor, Motor & Blower's Pully faulty	Edgetech	Pully, contactor & Push Button need to replace	15000.00	Nos	1	15000.00	1st Floor	
14	AHU 2	Damper Required	Edgetech	Damper Missing	5500.00	Nos	2	11000.00	1st Floor	
15	AHU 3	Damper Required	Edgetech	Damper Missing	5500.00	Nos	2	11000.00	2nd Floor	
16	AHU 4	Fire Damper Missing	Edgetech	Fire Damper Missing	75000.00	Nos	1	75000.00	Zone-3	
17	AHU 4	VFD Faulty	Edgetech	Fire Damper Missing	50000.00	Nos	1	50000.00	Zone-3	
18	AHU 4	Damper Required	Edgetech	Damper Missing	5500.00	Nos	2	11000.00	Zone-3	Prabhakar Hall
19	AHU 5	Insulation Missing	Edgetech	25 mm Nitrile Insulation with Alluminium Cladding	10000.00	Nos	1	10000.00	Zone-3	Bhaskar Hall
20	Chilled Beam	Duct Not Connected	NA	Duct need to connect	5000.00	R/O	1	5000.00	3rd & 5th Floor Main Building	
21	Chilled Beam	Pipe Insulation Missing	NA	Insulation need to done	2250.00	RMT	1	2250.00	Various Location	
22	Chilled Beam	Duct Not Connected	NA	Duct connection & Fan Required	7500.00	Nos	1	7500.00	5th Floor DDG Room	
23	TFA:									
23	TFA	High Noise Issue	DOAS	High Noise issue and filter replacement	225000.00	Nos	1	225000.00	Terrace	Quoted prices are tentative only, actual value shall be submitted after detailed working against providing the service order.
24	Heat Insulation Quoting									
24	Flexible duct for cooling									
24	200 mm									
25	Chiller Gas refilling charges with nitrogen testing and leakage arresting if any.									
TOTAL (Rs.) A										
Amount before GST (A/1.18)										
NSL's PMC charges @15 %										
Sub Total										
Add GST @18%										
TOTAL (Rs.)										

गौरव कुमार मीना / GAURAV KUMAR MEENA
 उप महाप्रबन्धक / Dy. GENERAL MANAGER
 एनबीसीसी सर्विसेस लिमिटेड / NBCC SERVICES LTD.
 (भारत सरकार का उद्यम / A Govt. of India Enterprise)



(3)

एनबीसीसी सर्विसेज लिमिटेड
NBCC SERVICES LIMITED
(A Wholly Owned Subsidiary of Navratna CPSE NBCC (INDIA) LIMITED)

No: NSL/DGM/NISE/2022/546

Date: 24.01.2023

The Director General,
National Institute of Solar Energy,
Gwal Pahadi, Faridabad Road,
Gurugram.

Sub: Estimate for One time rectification and repairs of STP & WTP Works at NISE, Gwal Pahadi, Gurugram.

Dear Sir,

This has reference to the site visit conducted in Dec 2022, we are attaching herewith the estimate for One time rectification and repairs of STP & WTP Works at NISE, Gwal Pahadi, Gurugram. The estimate is to the tune of Rs.68,31,959.00 including PMC charges@15% and GST as applicable.

This is for your kind information and apporval please.

Thanking You,

Yours faithfully,
गौरव कुमार मीना / GAURAV KUMAR MEENA
उप महाप्रबन्धक / DY. GENERAL MANAGER
एनबीसीसी सर्विसेज लि० / NBCC SERVICES LTD.
(भारत सरकार का उद्यम / A Govt. of India Enterprise)
(Gaurav Kumar Meena)
Dy. General Manager

Encl: As above

महानिदेशक रा. सी. ऊ. स.
Director General NISE
डायरी नं./Diary No. 24.....
In... 03/02/2023.....
Out... 03/02/2023.....

Summary of STP & WTP works at NISE, Gwal Pahadi, Gurugram

S.NO.	DESCRIPTION	AMOUNT (Rs.)	REMARKS
1	One time rectification and repairs of STP Plant	5141301.86	Annexure-A
2	One time rectification and repairs of WTP Plant	799532.33	Annexure B
3	Sub Total (A)	5940834.19	
4	Amount before GST (A/1.18)	5034605.25	
5	Add NSL's PMC charges @ 15%	755190.79	
6	Total	5789796.03	
7	Add GST@ 18%	1042163.29	
8	GRAND TOTAL Rs.	6831959.00	

गौरव कुमार मीना / GAURAV KUMAR MEENA
उप महाप्रबंधक / DY. GENERAL MANAGER
एनबीसीसी सर्विसेस लिमिटेड (NBCC SERVICIS LTD.)
(भारत सरकार का हस्ताक्षर) / Dy General Manager

One time rectification and repairs of STP Plant

S.No	Particulars	Location	Qty	Unit	Rate	Non DSR Amount	DSR Amount
1	SITC of Air Diffusing System with consisting of PCC Blocks, PVC Rope, Pipe Fittings, Flexible High Pressure Pipe, Ball Valve, Diffuser - 45 Nos, SS Clamp, Nipple, SS Huckess etc. with Labour Charges	At Screening tank	45	Nos	5320.00	239400.00	
2	SITC of Air blowers- cap-180m3/hr,05kg/cm2 pressure with motor 3ph	At Screening tank	2	Nos	98000.00	196000.00	
3	SITC of Filter Feed pump-Make	At Screening tank	2	Nos	63350.00	126700.00	
4	SITC of Garden Pump - 5 HP	For garden water supply	2	Nos	91252.00	182504.00	
5	SITC of Plant Room Sump pit pump- 3 HP	for Sump pit	2	Nos	87822.00	175644.00	
6	SITC of Raw Sewage Cutter Pumps- Kirloskar - 3 HP	Raw sewagecutter pump	2	Nos	77350.00	154700.00	
7	SITC of Screw Pump	Screw pump	1	Nos	63000.00	63000.00	
8	SITC of Sump Pump 5.5 HP for Emergency - Misc.	Emergency pump	1	Nos	119000.00	119000.00	
9	SITC of Sludge Transfer Pump 3 HP - Make	Sludge transfer pump	2	Nos	77252.00	154504.00	
10	SITC of Dosing Pump with Chemical Tank - Cap - 100 Ltr.	MBBR Tank	1	Nos	35000.00	35000.00	
11	SITC of Inlet & Outlet Magnetic Flow Meter with by pass arrangement inlet & outlet each Make	At inlet and outlet water	2	Nos	63000.00	126000.00	
12	SITC of Raw Sewage Inlet Valve upto Ø250mm	At inlet valve	1	Nos	119000.00	119000.00	
13	SITC of Tube Settler Media	Tube settler tank	10	M3	20300.00	203000.00	
14	SITC of MBBR Media	MBBR Tank	12	M3	20300.00	243600.00	
15	SITC of ACF & MCF Filter	STP Area	2	Nos	182000.00	364000.00	
16	SITC of Riser Pipe	STP Area	2	Nos	49000.00	98000.00	
17	SITC of Activated Carbon	STP Area	200	Kg	105.00	21000.00	
18	SITC of MGF Media	STP Area	6500	Kg	21.00	136500.00	
19	SITC of UV with Bypass Arrangement	STP Area	1	Nos	105000.00	105000.00	
20	SITC of Electrical Control Panel	STP Area	1	Nos	294000.00	294000.00	
21	SITC of Ph Meter	STP Area	1	Nos	25200.00	25200.00	
22	SITC of Filter Press 12 x 12	STP Area	1	Nus	91000.00	91000.00	
23	Repair and restoration of Plant Room All Pipe Line with Fittings and painting required - UPVC/ MS	All STP area	1	Job	448000.00	448000.00	
24	SITC of control cabling between pumps and control panel including cable trays, glands termination, earthing wire, main supply cable from near feeder pillar complete in all respect.	STP Area	1	Job	42000.00	42000.00	
25	Cleaning of existing sewage line, STP by removing all water and dismantling of equipments as required.	STP Area	1	Lot	85000.00	85000.00	
26	Laying of HDPE pipe of 250 DIA from main inlet chamber of STP to overflow point in ground to achieve relevant slope with intermediate chambers after 7-9 meters with regulating valve to control the over flow of the system. The cost should include supply and installation of HDPE pipe including RCC, slope, excavation etc required.	STP to nearest sewerage point	1	Job	420000.00	420000.00	
27	DSR 2021 15.18 Dismantling of steel work in built up section in angles,tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking with in 50 meters lead.	STP Area	1200	KG	7.00		8400.00
28	DSR 2021 13.62 painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade	STP Area					
29	DSR 2021 13.62.1 Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	STP Area	50	sqm	268.00		13400.00
30	DSR 2021 13.83 Wall painting with premium acrylic emulsion paint of Interior grade, having VOC content less than 50 grams/ litre of approved brand and manufacture, including applying additional coat wherever required to achieve even shade and colour	STP Area					
31	DSR 2021 13.83.2 Two Coats	STP Area	250	sqm	170.00		42500.00
32	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry..	STP Area	750	Sqm	516.60		387450.00
33	CEMENT PLASTER (IN FINE SAND)						
34	13.6.1 1:4 (1 cement: 4 coarse sand)	STP Area	750	Sqm	421.40		316050.00
A	TOTAL (Rs.) A					4267752.00	767800.00
	Add Cost index (107 as on 16.11.2022 over 2021 DSR and GST 1.0633 factor on)						873549.86
	Total Amount (NDSR+DSR)						5141301.86

गौरव कुमार मीना GAURAV KUMAR MEENA
 उप महाप्रबंधक / DY. GENERAL MANAGER
 एनबीसीसी सर्विसेज़ लि./NBCC SERVICES LTD.
 (भारत सरकार का उद्यम/A Govt. of India Enterprise)

One time rectification and repairs of WTP Plant

S.No		Particulars	Qty	Unit	Rate	Non DSR Amount	DSR Amount
1		SITC of Filter Media Change					
2		SITC of Activated Carbon	200	Nos	105.00	21000.00	
3		SITC of MGF Media	2500	Nos	21.00	52500.00	
4		SITC of Softner Resin	1600	Nos	294.00	470400.00	
5		SITC of Dosing Pump with Chemical Tank - Cap - 100 Ltr.	1	Nos	35000.00	35000.00	
6		SITC of Salt Charging Motor	1	Nos	49000.00	49000.00	
7		SITC of Ph Meter	1	Nos	25200.00	25200.00	
8		Repairs and Servicing of Motors including cost of Bearing, Seal, Gland etc.	4	Nos	11200.00	44800.00	
9		Repair and replacement of all Pipe Line with Fittings	1	Job	42000.00	42000.00	
10		Repair or SITC of control cabling between pumps and control panel including cable trays , glands termination, earthing wire , main supply cable from near feeder pillar complete in all respect.	1	Job	28000.00	28000.00	
11	DSR 2021 13.62	painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade					
	DSr 2021 13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	50	sqm	191.40		9570
12	DSR 2021 13.83	Wall painting with premium acrylic emulsion paint of interior grade, having VOC content less than 50 grams/ litre of approved brand and manufacture, including applying additional coat wherever required to achieve even shade and colour					
	DSR 201 13.83.2	Two Coats	150	sqm	121.55		18232.5
		TOTAL (Rs.) A				767900.00	27803.00
		Add Cost Index (107 as on 16.11.2022 over 2021 DSR and GST 1.0633 factor on)					31632.33
		Total Amount (NDSR+DSR)					799532.33

गौरव कुमार मीना / GAURAV KUMAR MEENA
 उप महाप्रबंधक / DY GENERAL MANAGER
 एनबीसीसी सर्विसेज़ लि० / NBCC SERVICES LTD.
 (भारत सरकार का उद्यम / A Govt. of India Enterprise)



No: NSL/DGM/NISE/2022/549

Date: 28.01.2023

The Director General,
National Institute of Solar Energy,
Gwal Pahadi, Faridabad Road,
Gurugram.

Sub: Estimate for renovation and repair works in Surya Bhawan canteen kitchen and washrooms at NISE, Gurugram.

Dear Sir,

This has reference to the site visit conducted in Jan 2023, we are attaching herewith the estimate for renovation and repair works in Surya Bhawan canteen kitchen and washrooms at NISE, Gurugram. The estimate is to the tune of Rs.24,78,989.00 including PMC charges@15% and GST as applicable.

This is for your kind information and approval please.

Thanking You,

Yours faithfully,

गौरव कुमार मीना / GAURAV KUMAR MEENA
उप महाप्रबन्धक / DY. GENERAL MANAGER
एनबीसीसी सर्विसेज लिमिटेड (Gaurav Kumar Meena)
(भारत सरकार का उद्योग) / A Govt. of India Enterprise
Dy. General Manager

Encl: As above

महानिदेशक रा. सी. ऊ. स.
Director General NISE
डायरी नं./Diary No...27.....
In...02/02/2023.....
Out...03/02/2023.....

Summary of renovation and repair works in canteen kitchen and washrooms NISE, Gurugram			
S.NO.	DESCRIPTION	AMOUNT (Rs.)	REMARKS
1	Washroom renovation and repair works NISE, Gurugram	2155642.34	Annexure A
2	Sub Total (A)	2155642.34	
3	Amount before GST (A/1.18)	1826815.55	
4	Add NSL's PMC charges @ 15%	274022.33	
5	Total	2100837.88	
6	Add GST@ 18%	378150.82	
7	GRAND TOTAL Rs.	24,78,989.00	

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 उप महाप्रबंधक / Dy GENERAL MANAGER
 एनबीसीसी सर्विसेज लिमिटेड / NBCC SERVICES LTD.
 (भारत सरकार का उद्यम / A Govt. of India Enterprise)
 (Gaurav Kumar Meena)
 Dy General Manager

Estimate for renovation and repair works in canteen kitchen and washrooms NISE, Gurugram

Bidders are requested to provide rates for below scheduled items after site inspection:

S.No.	DSR 2021	Description of Items	Unit	Quantity	Rate	DSRAmount	Non DSR Amount
1	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					
2	4.1.2	12.1 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	3	7783.65	23350.95	
3	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
4	5.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3	7945.65	23836.95	
5	6.4	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 :					
6	6.4.1	18.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6	8512.1	51072.6	
7	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, 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.					
8	8.2.2	Granite stone slab colour black, Cherry/Ruby red					
9	8.2.2.2	Area of slab over 0.50 sqm	sqm	15	4425.35	66380.25	
10	8.3.1	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, inskirting, 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	155	1063.45	164834.75	
11	9.8.8	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	10	817.5	8175	
12	11.4.1	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 @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete					
13	11.4.1.2	Size of Tile 600x600 mm	sqm	65	1416.65	92082.25	
14	12.4.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,					
15	12.4.1.2	10.1 110 mm diameter	metre	40	319.75	12790	

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16	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion				
17	12.42.1	11.1 Coupler				
18	12.42.1.2	110 mm	each	10	119.95	1199.5
19	12.42.5	11.2 Bend 87.5°				
20	12.42.5.2	110 mm bend	each	10	132	1320
21	12.45	12.45 Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings.				
22	12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	55	1300.5	71527.5
23	13.8	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	215	123.85	26627.75
24	13.88	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	215	16.35	3515.25
25	13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
26	13.99.1	One or more coats on old work	sqm	215	86.55	18608.25
27	14.85	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	each	12	325.95	3911.4
28	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of engineer- in - charge.	cum	2	2928.1	5856.2

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29	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					
30	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	175	60.5	10587.5	
31	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require					
32	17.7.5	White Vitreous China Angle back wash basin size 600 x 480 mm with single 15mm C.P. brass pillar tap	each	15	2965.6	44484	
33	17.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
34	17.10.1	Kitchen sink with drain board					
35	17.10.1.1	510x1040 mm bowl depth 250 mm	each	2	6008.45	12016.9	
36	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	each	35	299.35	10477.25	
37	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	each	18	886.25	15952.5	
38	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.					
39	17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	each	29	103	2987	
40							
a)	17.8	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	each	30	7004.45	210133.5	
b)		Sensor for urinals with battery	each	30	7500	225000	
41	17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in	each	18	16100.4	289807.2	
42	17.28.1.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.	each	10	90.95	909.5	
43	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
44	18.53.1	7.1 15mm nominal bore	each	45	500.35	22515.75	
45	18.84	18.84 Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology.					
46	18.84.1	15 mm nominal bore	each	6	8050.5	48303	
47	a	SITC of Sensor based Soap dispenser Stainless steel	each	4	6200	24800	
	b	SITC of Soap dispenser SS manual	each	6	2200	13200	

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एनबीसीसी सर्विसेज लिमिटेड
NBCC SERVICES LIMITED
(A Wholly Owned Subsidiary of Navratna CPSE NBCC (INDIA) LIMITED)

No: NSL/DGM/NISE/2022/558

Date: 10.02.2023

The Director General,
National Institute of Solar Energy,
GwalPahadi, Faridabad Road,
Gurugram.

Sub: Estimate for One time rectification and repairs of Fire Fighting, Fire Alarm and PA System at NISE Gurugram.

Dear Sir,

This has reference to the site visit conducted, we are attaching herewith the estimate for One time rectification and repairs of Fire Fighting, Fire Alarm and PA System at NISE Gurugram. The estimate is to the tune of Rs. 01,11,45,275.00 including PMC charges@15% and GST as applicable.

This is for your kind information and apporval please.

Thanking You,

Yours faithfully,


Encl: As above


गौरव कुमार मीना/GAURAV KUMAR MEENA (Gaurav Kumar Meena)
उप महाप्रबन्धक/DY. GENERAL MANAGER
एनबीसीसी सर्विसेज लि./NBCC SERVICES LTD.
(भारत सरकार का उद्यम/A Govt. of India Enterprise)

REGISTERED OFFICE
NBCC Centre, Ground Floor, Plot No.2
Okhla Phase -1, Delhi-110020
Tel. : 011-45721410
E-mail : nsl@nbccindia.com


Summary of Fire Fighting, Fire Alarm and PA System at NISE, Gurugram

S.NO.	DESCRIPTION	AMOUNT (Rs.)	REMARKS
1	One time rectification and repairs of Fire Fighting System	5474941.80	Annexure A
2	One time rectification and repairs of Fire Alarm System	3023106.00	Annexure B
3	One time rectification and repairs of Public Address System	1193496.00	Annexure C
4	Sub Total	9691543.80	
5	Amount before GST (A/1.18)	8213172.71	
6	Add NSL's PMC charges @ 15%	1231975.91	
7	Total	9445148.62	
8	Add GST@ 18%	1700126.75	
9	GRAND TOTAL Rs.	11145275.00	


(Gaurav Kumar Meena)
By General Manager
उप महाप्रबन्धक/DY GENERAL MANAGER
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One time rectification and repairs of FIRE FIGHTING WORKS

S.No	DSR 2019 REF.	Particulars	Qty	Unit	Rate	MR Amount	DSR Amount
1		Repair & Service and making operational main electric pump for hydrant system make all damages good and make it functional and complete in all respect.	1	Nos	45000.00	45000.00	
2		Repair & Service and making operational main electric pump for sprinkler system make all damages good and make it functional and complete in all respect.	1	Nos	45000.00	45000.00	
3		Repair & Service and making operational main diesel engine pump for fire fighting system and make all damages good and make it functional and complete in all respect.	1	Nos	150000.00	150000.00	
4		Repair & Service and making operational Jockey pump fighting system and make all damages good and make it functional and complete in all respect.	1	Nos	17000.00	17000.00	
5		Repair & Service and making operational terrace pump fighting system and make all damages good and make it functional including starter , cables etc and complete in all respect.	1	Nos	95000.00	95000.00	
6		Repair & Service and making operational control panel and make all damages good and make it functional and complete in all respect.	1	Nos	15000.00	15000.00	
7		Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Weiding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required.					
	7.9	200 MM	27	Meter	2926.00		79002
	7.8	150 MM	650	Meter	2064.00		1341600
	7.7	100 MM	45	Meter	1499.00		67455
	7.6	80 MM	30	Meter	1127.00		33660
	7.5	65 MM	30	Meter	1004.00		30120
	7.4	50 MM	30	Meter	787.00		23610
	7.3	40 MM	30	Meter	651.00		19530
	7.2	32 MM	60	Meter	577.00		34620
	7.1	25 MM	130	Meter	471.00		61230
9		Repair & Service and making operational INTERNAL HYDRANT make all damages good and make it functional including cost of instantaneous Gunmetal/Stainless Steel coupling, cap and chain complete in all respect.	25	Nos	1000.00	25000.00	
10		Repair & Service and making operational EXTERNAL HYDRANT make all damages good including cost of instantaneous Gunmetal/Stainless Steel coupling, cap and chain and make it functional and complete.	15	Nos	1500.00	22500.00	
11		Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required.					
	16.1	Gun Metal	60	Nos	5188.00		311280
17		Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required: 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle Drum and brackets for fixing the equipments on wall Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.					



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12	17.1	SITC OF FIRST AID HOSE REAL 30 METER	18	Nos	8413.00		151434
13		SITC OF FIRE BRIDGE CONNECTION	3	Nos	13000.00	39000.00	
14		Repair & Service and making operational AIR VESSEL . make all damages good and make it functional and complete in all respect.	6	Nos	4500.00	27000.00	
	21	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories					
15	21.1	Pendent Sprinkler	400	Nos	484.00		193600
16		Repair & Service and making operational pressure switch make all damages good and make it functional and complete in all respect including cost of replacement if required.	6	Nos	650.00	3900.00	
17		Repair & Service and making operational flow switch make all damages good and make it functional and complete in all respect including cost of replacement if required.	10	Nos	2500.00	25000.00	
18	11	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required					
	11.7	200 mm dia	15	Nos	14958.00		224370
	5.4	Designing, Supply, Installation, Testing and commissioning of system controller to control operation incoming					
		ACDA, 50KA 4 Pole MCCB, less 100% inc. Rating Outgoing					
		(Note : All outgoing feeders for pumps should have Jockey Pump					
		63 Amp, 50KA 10N MCCB, less 100% inc. with Suitable All standard relays and accessories for automatic operation of diesel engine					
		Annuciator panel shall be part of the scope	1	Job	372106.00		372106
16		Repair & Service and making operational gong bell make all damages good and make it functional and complete in all respect including cost of replacement if required.	1	Job	22500.00	22500.00	
17		Repair & Service and making operational drain assembly make all damages good and make it functional and complete in all respect.	1	Job	25000.00	25000.00	
18		Repair & Service and making operational all FHC Doors including painting, accessories, glass etc make all damages good and make it functional and complete in all respect.	1	Job	25000.00	25000.00	
19		Repair & Service and refilling of fire extinguishers including painting make all damages good and make it functional and complete in all respect. (To be paid on actual basis)	1	Job	150000.00	150000.00	
20		Supply & fixing of self illuminating signage as standard practice for fire noc compliance.	1	Job	50000.00	50000.00	
21		Supply & fixing of emergency lights as standard practice for fire noc compliance (shall be claimed on actual basis)	1	Job	150000.00	150000.00	
22		Fire suppression system in electrical panels as standard practice for fire noc compliance (shall be claimed on actual basis)	1	Job	1000000.00	1000000.00	
	A	TOTAL (Rs.) A				1926900.00	2940617.00
		Effect of GST Factor and Cost Index w.r.t. 2019 and 2023 January on DSR items Add Cost Index (107 as on 16.11.2022 over 2021 DSR and GST 1.0633 factor on) CI 2020 101 over 2019, CI 2021 105 over 2020 and CI 107 2020 (Oct) over 2021 (DSR 2019x 1.01*1.05*1.07*1.0633 (GST factor)					3548041.80
		Grand Total (DSR+ Non DSR)				5474941.8	

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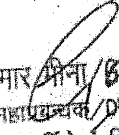
One time rectification and repairs of PUBLIC ADDRESS SYSTEM

S.No	DSR 2022 (E & M)	Particulars	Qty	Unit	Rate	Amount
1	17.3.1	SITC of 6 zone, voice alarm controller with USB, MP-3 player with seamless integration facility with main fire alarm panel for voice evacuation complete as required including rack.	1	Nos	126411.00	126411.00
2	17.3.2	SITC of ceiling speaker of 1./3/6 Watt complete in all respect.	30	Nos	965.00	28950.00
3	17.3.7	SITC of digital amplifier of 75 Watt 25 V RMS complete in all respect.	3	Nos	145793.00	437379.00
4	17.3.9	SITC of voice command keypad 6 zone with microphone assembly complete as required	1	Nos	81756.00	81756.00
5	17.5.1	SITC of FRLS Speaker cable 2 C X 1.5 sqmm copper armoured	3000	Meter	173.00	519000.00
	A	TOTAL (Rs.) A				1193496.00


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One time rectification and repairs of FIRE ALARM SYSTEM

S.No	DSR 2022 (E & M)	Particulars	Qty	Unit	Rate	Amount
1	17.2.1.2	SITC of 2 loop fire alarm panel in all respect and make all damages good and make it functional as per site condition.	1	Nos	239225.00	239225.00
2	17.2.2	SITC of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete in all respect.	1	Nos	200611.00	200611.00
3	17.2.3	SITC of repeater panel of 320 character/ touch screen LCD panel with in built reset and acknowledge system complete in all respect.	2	Nos	108688.00	217376.00
4	17.2.4	SITC of photothermal adressable detector complete in all respect.	250	Nos	2858.00	714500.00
5	17.2.5	SITC of reponse indicator with 2 Nos. LED & MS Box complete in all respect.	100	Nos	276.00	27600.00
6	17.2.6	SITC of adressable inteilegent sounder complete in all respect.	20	Nos	2651.00	53020.00
7	17.2.7	SITC of adressable fault isoiator complete in all respect.	10	Nos	3270.00	32700.00
8	17.2.9	SITC of heat detector adressable detector complete in all respect.	4	Nos	2726.00	10904.00
9	17.2.10	SITC of control module adressable detector complete in all respect.	10	Nos	3003.00	30030.00
10	17.2.11	SITC of phone control module adressable complete in all respect.	8	Nos	3267.00	26136.00
11	17.2.14	SITC of mannual call point adressable complete in all respect.	20	Nos	3871.00	77420.00
12	17.2.15	SITC of horn cum strobe adressable complete in all respect.	20	Nos	3506.00	70120.00
13	17.2.17	SITC of fire fighter telephone hand set complete in all respect.	8	Nos	5740.00	45920.00
14	17.2.18	SITC of interface with BMS & fire alarm system for interlinking complet in all respect	1	Nos	187744.00	187744.00
15	17.2.19	SITC of phone jack complete in all respect	8	Nos	1600.00	12800.00
16	17.5.1	SITC of Fire survial cable 2C X 1.5 Sqmm copper	3000	Meter	359.00	1077000.00
	A	TOTAL (Rs.) A				3023106.00


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