56th Meeting of the Governing Body

Supplementary Annexures

Sports Authority of India
New Delhi

I N D E X

Annexure	Particulars
I A	Cost Break-up for re-laying of Hockey Turf with allied works at SAI NSSC Bangalore
I B	Estimate of CPWD for re-laying of Hockey Turf with allied works at SAI NSSC Bangalore
II A	Cost Break-up for installation of Synthetic Athletic Track (Mondo Track WS) along with associated works at NS NIS Patiala
II B	Estimate of CPWD for installation of Synthetic Athletic Track (Mondo Track WS) along with associated works at NS NIS Patiala
III A	Cost Break-up for replacement of Synthetic Athletic Track with allied works at SAI NS NIS Patiala
III B	Estimate of CPWD for replacement of Synthetic Athletic Track with allied works at SAI NS NIS Patiala
IV A	Cost Break-up for relaying of Synthetic Athletic Track with allied works at SAI NCOE Sonepat
IV B	Estimate of CPWD for relaying of Synthetic Athletic Track with allied works at SAI NCOE Sonepat
V A	Cost comparison for construction of Multi-Purpose Hall at SAI NCOE Bhopal
V B	Estimate of CPWD for construction of Judo Hall and Annexe Building for SAI Bhopal, MP
VI	Details of number of booking days of Jawaharlal Nehru Stadium
VII	EOI for empanelment of Medical Consultant on visiting basis in SAI
VIII	Minutes of Price Negotiation Committee for selection of PMU for providing technical support and consultancy for IT related projects

Annexure - I A

Re-laying of Hockey (Blue) Turf with allied works at SAI NSSC Bangalore		
Summary Sheet		
S. No	**Description**	**Amount (In Rs.)**
1	Bituminous Concrete Work	72,44,318.00
2	Dismantling And Demolishing	31,37,140.00
3	Hockey Field Turf	4,77,92,000.00
4	Plumbing & Painting Work	6,29,404.00
5	Installation of Dug Out	19,50,000.00
6	Miscellaneous (Including Cleaning Of Drains, Block Pavers, Concrete Block Minor Civil Works)	8,57,293.00
7	Total	6,16,10,155.00
8	Add cost index for DRS Items @ 13% (Rs. 7,79,502/-)	1,01,335.00
9	Add extra GST on DRS Items @ 6% (Rs. 7,79,502/-)	46,770.00
10	Total (7+8+9)	6,17,58,260.00
11	LED Luminaries Flood Lighting	1,24,41,600.00
12	Total (10+11)	7,41,99,860.00
13	Add 3% contingencies	22,25,996.00
14	Add ESI& EPF	11,83,769.00
15	**Total (12+13+14)**	**7,76,09,625.00**
	Say	**7.76 Cr.**

सत्यमेव जयते

भारत-सरकार
GOVERNMENT OF INDIA
केंद्रीयलोकनिर्माणविभाग
CENTRAL PUBLIC WORKS DEPARTMENT

Office of the Executive Engineer,
Bengaluru Central Division-II,
12th Floor, Sir Visvesvaraya Kendriya Bhawan,
Near Domlur Flyover, Domlur, Bengaluru-560071.
E-mail:bcd2cpwd1@gmail.com, bgleebcd2.cpwd@gov.in

ख्या.23(85)/बीसीडी-II/2022-23/ 1767(H) दिनांक. 25.07.2022

To

The Regional Director I/C,
Sports Authority of India, NSSC,
Mysore Road,
Bangalore- 560056.

Sub: Re-laying of Synthetic Hockey Blue Turf and SITC Flood Lighting at SAI, NSSC, Bangalore.

Ref: Letter No.SAI/NSSC/ENGG/CON/NPCC/SHS-11/202/2022-23 Dated 21.07.2022

~X~X~X~

Sir

A Preliminary cum Detailed Estimate amounting to Rs.7,76,100/- including 3% contingencies for above cited work is enclosed herewith in triplicate for accord of administrative approval and expenditure sanction from the competent authority.

One copy of the Preliminary cum Detailed Estimate duly singed by the Competent Authority may please be returned to this office as a token of acceptance along with a copy of Administrative Approval and Expenditure Sanction for taking further necessary action.

With approval of Chief Engineer(B), CPWD, Bangalore

Encl:
1) Preliminary cum Detailed Estimate in triplicate
2) Quotation received from Advanced Sport Technoligies LLP

Executive Engineer-II,
CPWD, Bangalore.

Copy to:
1. The Executive Engineer (Ele), BED, CPWD, Bangalore
2. The Assistant Engineer BCSD-2/II, CPWD, Bangalore for information.

Executive Engineer-II

Nav 1 Fol\BCSD II/History Sheet.doc

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GOVERNMENT OF INIDA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE: Karnataka BRANCH: B&R.

ESTIMATE No:

Name of work: Re-laying of Synthetic Hockey Blue Turf and SITC Flood Lighting at SAI, NSSC, Bangalore.

Major head
Minor Head
Detailed Head } Deposit Work

REPORT: The Preliminary cum Detailed Estimate is framed by Er.Srinivasulu, Executive Engineer-II, CPWD, Bangalore and Er.Aman Kumar, Executive Engineer (E), CPWD Bangalore to carry out the said work at a probable cost of Rs.7,76,10,000/-(Rupees Seven Crores Seventy Six LakhsTenThousand Only) including @ 3% contingencies.

HISTORY: This preliminary cum detailed estimate amounting to Rs.7,76,10,000/-including 3% contingencies 4.25 &0.85% EPF & ESI has been framed to cover the probable cost of the above mentioned work and for obtaining Administrative Approval and Expenditure Sanction from the competent authority. The estimate is prepared based on the request received from the Regional Director I/C, SAI, NSSC, Bangalore vide letter No No.SAI/NSSC/ENGG/CON/NPCC/SHS-11/202/2022-23 Dated 21.07.2022

DESIGN & SCOPE: The following provisions have been made in this estimate.

Civil work

1. Removal of existing synthetic Hockey Surface
2. Removal existing flexible payment and disposal to nearest dumping yard.
3. Relaying of bituminous concrete strictly as per the FIH guidelines.
4. Supplying & Laying of FIH approved Global Category Synthetic Hockey Surface.
5. Painting of existing chain link fencing.
6. Removing and relaying of existing drain.
7. Supply, Installation, Testing& Commissioning of Dug out
8. Minor repair works

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Electrical work

1. It is proposed to Dismantle existing metal halide luninaries with all accessories and supply, installation, testing and commissioning of 48 nos LED Luninaries Flood Lighting with minimum horizontal maintained illumination of 500 lux complete with specification on the existing high mast complete etc as reqd.

   All items required at this stage have been included and unforeseen items if any shall be met through contingencies / savings.

SPECIFICATIONS	: As per C.P.W.D. Specifications 2019 Vol I & II with up to date correction slips.
COST	: Rs.7,76,10,000/- including 3% contingencies
LAND	: Available.
METHOD	: By contract after call of tender.
RATE	: Based on Delhi Schedule of Rates-2021 duly enhanced by approved Cost Index and Market Rates
TIME	: After accord of A/A & E/S 2 months for planning and 6 months for execution
T&P	: Shall be arranged by the contractor.
W.C.E	: Nil this can be met out of contingencies

Executive Engineer (Ele)
CPWD, Bangalore

Executive Engineer-II
CPWD, Bangalore

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General Abstract of Cost

Name of work: Re-laying of Synthetic Hockey Blue Turf and SITC Flood Lighting at SAI, NSSC, Bangalore.

SH	Description	Amount
1	Civil Work	3825181.00
2	Road work	57933079.00
3	Electrical Work	12441600.00
	Total	74199860.00
	Add 3% contingencies	2225996.00
	Add : ESI & PF @ 4.25% for Rs.16266781/- (For Civil & Electrical work)	691338.00
	Add : ESI & PF @ 0.85% for Rs.57933079/- (For Road work)	492431.00
	Grand Total	77609625.00
	Say	**77610000.00**

Executive Engineer (Ele)
CPWD, Bangalore

Executive Engineer-II
CPWD, Bangalore

Chief Engineer(B)
CPWD, Bangalore

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Preliminary Cum Detailed Estimate

Name of work: Re-laying of Synthetic Hockey Blue Turf and SITC Flood Lighting at SAI, NSSC, Bangalore.

SL No	Description	Qty	Unit	Rate	Amount	DSR 21
	SUB HEAD: CIVIL					
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
1.1	All Kinds of soil	20	cum	205.45	4109.00	2.6.1
2	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications: 16.30.2 On bituminous surface @ 0.50 Kg / sqm					16.30
2.1	On W.B.M. @ 0.75 Kg / sqm	6592	sqm	45.20	297958.00	16.30.1
3	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.					16.55
3.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	20	cum	7756.40	155128.00	16.55.1
4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.					18.9
	32 mm nominal dia Pipes	108	metre	435.05	46985.00	18.9.4
5	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:					26.68
5.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	8	cum	6057.95	48464.00	26.68.1
6	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					13.47
6.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	350	sqm	162.35	56823.00	13.47.1

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7	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).					11.20
7.1	Medium shade pigment using 50% white cement 50% Grey cement	100	sqm	1160	116000.00	11.20.2
8	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.	100	sqm	540.35	54035.00	14.75
9	Removal of the existing Bituminous concrete layer by milling machine to correct the ground gradient as per latest FIH guidelines & removal of unserviceable materials from the site as per direction of Engineer-in-Charge including all costs, loading & unloading carriage by mechanical means etc., complete.	6592	sqm	232	1529344.00	MR
10	Removal of the existing Synthetic hockey surface with rubber shock pad & disposal of the old unserviceable Synthetic including all costs, loading & unloading carriage by mechanical means etc., complete.	6592	sqm	195	1285440.00	MR
11	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground for lead of beyond 10 km for all lifts , complete as directed by Engineer-in-charge.	362.56	cum	889.11	322356.00	MR
12	Providing and laying Bituminous concrete Strictly As per FIH Guidelines under the supervision of Turf manufacturer representative/ engineer using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, alignment and level by special lazer equipment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.50mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	362.56	cum	18720	6787123.00	MR

Verified

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13	**Supplying & Laying of FIH approved Global Category Synthetic Hockey Surface Blue Colour** Supplying & Laying of FIH approved Global Category Synthetic Hockey Surface Blue Colour with polyethelene fibre and cast insitu Shock Pad 10 mm laying joint and fixing the same on the bituminous sub base with ruberized under layer as per the FIH requirements and the pasting of Synthetic Grass as per Specification of the Global Category FIH competition including all marking on the surface as per FIH rules and standard etc. complete as per the instructions of Engineer In Charge	6592	sqm	7250	47792000.00	M R
14	Removing of existing Drain Cover and re-fixing after re-laying of Hockey turf including cleaning and minor repair work of Drainage System as per directions of Engineer - In - Charge	201	sqm	980	196980.00	M R
15	Supply, Installation, Testin & Commissioning of Dug out with minimum 10 Seating Capacity of SS - 304, covering with Polycarbonate Sheets of approved shade with special turf wheels for movements etc as per directions of Engineer In Charge.	2	each	975000	1950000.00	M R
16	Painting with synthetic enamel paint of approved brand manufacture of required colour to give an even shade on both sides of chain-link fencing and steel frame work including cost of necessary scaffolding all complete at all heights upto 15m and lifts as per direction of Engineer-in-charge.	3502	sqm	147.80	517596.00	MR
17	Providing and fixing CPVC 32mm gate valve with necessary brass elbow or brass Tee in CPVC line as per directions of Engineer-in-charge.	10	each	800	8000.00	MR
18	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	30	sqm	3060.47	91814.00	MR
19	FIH accredited field test for Cat 2 (global), Identification lab test, Report to FIH (including flights, transport of luggage, accommodation technicians).	1 job	each	350000	350000.00	LS
				TOTAL	**61610155.00**	
	Add Cost index for DSR items @ (113-105)/105*100) = 13% (Rs.7,79,502)				101335.00	
	Add extra GST @ 6% on DSR items (Rs.7,79,502)				46770.00	
				Civil Total	**61758260.00**	

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SUB HEAD: ELECTRICAL

SL No	Description	Qty	Unit	Rate	Amount	DSR 21
20	Dismantling of existing metal halide luninaries with all accessories and supply, installation, testing and commissioningof 48 nos LED Luninaries Flood Lighting with minimum horizontal maintaned illuminiation of 500 lux with horizontal uniformity ratio U1>0.50, U2>0.70, Uniformity Gradient 0.65, Glare rating Max 65 Ra, Colour Temp >4000 tk. LED complying with European Stndards or other internationnaly recognised equivalent statndards: EN06598 Part-I, EN 60598 Part2-5 & EN 62031, LED life-Minimum 40,000 Hrs, Operating Temp. Range-20 degree "C" to + 50 degree "C", Humidity Range 0%-90%, Insulation Class-IEC CLass-1, Short Circuit Protection, Over-heat protection, Front Glass with impact resistant Toughened Glass >IK8 etc as as specification on the existng high mast complete etc as reqd.	48	each	259200	12441600.00	MR
	Electrical Total				**12441600.00**	

Executive Engineer (Ele)
CPWD, Bangalore

Executive Engineer-II
CPWD, Bangalore

verified

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Annexure - II A

Installation of Synthetic Athletic Track Mondo WS along with associated works at SAI NS NIS Patiala		
Sr. No.	Description	Amount (Rs.)
1	Supply &Laying of Mondo Track WS	143114603.00
2	Earth Work, Concrete Work, Reinforced Concrete Work, Brick Work, Cladding Work, Steel Work, Flooring, Roofing, Finishing, Dismantling and Demolishing work, Road Work, Drainage work, Waterproofing Work, Rain Water Harvesting &Tube wells etc.	37226853.00
3	Concrete Work & Road Work	8018249.00
	Taxes & Cost Index at Sr. No. 2 & 3	11019781.00
4	Horticulture Work	766654.00
5	35 m high mast with sport lighting of minimum 400 lux, Sprinkler system, Electrical Panel and Cable Laying	49390885.00
	Sub-Total (A)	**249537025.00**
	Anticipated Increase @ 3% in the cost during the period from the date of submission of PE	7486111.00
	Anticipated Increase @ 3.75% (3% per annum for the increase in the cost during the period of completion work	9357638.00
	Add @ 1% for Third Party Quality Assurance	2495370.00
	Add Contingencies @ 3%	7486111.00
	Sub-Total (B)	**26825230.00**
	Total (A+B)	**276362255.00**
	Add for EPF & ESI @ 4.25% on Total Value	11745396.00
	Grand Total	**288107651.00**
	Say	**28.81 Cr.**

(1)

Annexure - II B

भारत सरकार
GOVERNMENT OF INDIA
केन्द्रीय लोक निर्माण विभाग
CENTRAL PUBLIC WORKS DEPARTMENT

कार्यालय अधीक्षण अभियंता, चण्डीगढ़
केन्द्रीय सदन, सैक्टर 9-ए,
चण्डीगढ़ - 160009
दूरभाष 0172-2743914
फैक्स 0172-2741673

O/o Superintending Engineer, Chandigarh
Kendriya Sadan, Sector 9-A,
Chandigarh-160009
E-mail: ce.chd@cpwd.gov.in

संख्या : 23(186)/अ0अभि0(चण्डीगढ़)/1660 [illegible]

दिनांक: 05/09/2022

सेवा में,

The Senior Executive Director,
Sports Authority of India,
Netaji Subhas National Institute of Sports,
Patiala (Punjab).

विषयः— **Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb).**

महोदय,

उपरोक्त कार्य का संशोधित (modified) प्रारम्भिक अनुमान जिसकी लागत **रूपये 28,81,07,700/- (Rupees Twenty Eight Crores Eighty One Lakhs Seven Thousand and Seven Hundred** मात्र है, उपयुक्त अधिकारी द्वारा प्रशासनिक अनुमोदन एवं व्यय स्वीकृति हेतु भेजा जा रहा है। कार्य का प्रयोजन तथा आवश्यकता का उल्लेख अनुमान में कर दिया गया है। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिनाई हो सकती है। आपसे अनुरोध है कि कार्य की स्वीकृति भेजते समय "लेखा शीर्ष" **(Head of Account)** जिसके अंतर्गत व्यय किया जाना है, सूचित किया जाए।

संलग्नः- संशोधित (modified) प्रारम्भिक अनुमान (दो प्रतियों में)

05/09/2022

(एन0 के0 बंसल)
अधीक्षण अभियंता-चण्डीगढ़,
के0लो0नि0वि0, चण्डीगढ़।

प्रतिलिपिः-

1. विशेष महनिदेशक - चंडीगढ़, के0लो0नि0वि0, सैक्टर 9-ए, चंडीगढ़ को सूचनार्थ प्रेषित है ।
2. वरिष्ठ वास्तुक (चंडीगढ़), के0लो0नि0वि0, सैक्टर 9-ए, चंडीगढ़ को सूचनार्थ हेतु ।
3. कार्यपालक अभियंता चंडीगढ़-II, के0लो0नि0वि0, सैक्टर 7-बी, चंडीगढ़ को उनके पत्र संख्या: CHD-2/20(103-P)/2022 - 23/3305 दिनांक 30.08.2022 के सन्दर्भ में अनुमान की प्रति सहित ।
4. कार्यपालक अभियंता (वै0) चंडीगढ़, के0लो0नि0वि0, सैक्टर 9-ए, चडीगढ़ को अनुमान की प्रति सहित।

JC (Infra)

JE (Electrical)

अधीक्षण अभियंता-चण्डीगढ़

GOVT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE PUNJAB **DIVISION: CHD-II** **BRANCH: B&R**

Name of work: Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb).

MAJOR HEAD	MINOR HEAD	DETAILED HEAD

This Modified Preliminary cum Detailed Estimate framed by Er. Abhishek Khatri, Executive Engineer- Chandigarh-II, CPWD, Chandigarh and Er. Shiv Kumar Meshram, Executive Engineer(E)- Chandigarh, CPWD, Chandigarh and further processed in the O/o Superintending Engineer-Chandigarh, CPWD Chandigarh for the probable cost of **Rs. 28,81,07,700/-** i/c 3% contingencies.

REPORT

HISTORY: This Modified Preliminary cum Detailed Estimate amounting to **Rs. 28,81,07,700/-** including 3% contingencies has been framed to cover the probable cost of the above work. Earlier, SAI authorities had requested for the work of Replacement of 400-M-8 lanes synthetic athletic track-2 at NS, NIS Patiala which has now been amended and upgraded to Installation of Synthetic Athletic Track MONDO WS at NS, NIS, Patiala. The requisition for the above said work has been received from Sports Authority of India, J.L.N. Stadium, New Delhi, vide their letter No. SAI/Infra/DG's Review Meeting/2021-22/Link file/77 dated 27.01.2022. This estimate is prepared after approval of Preliminary drawings by the Sr. Executive Director, NS, NIS, Patiala (Information received through email on dated 29.04.2022). Earlier, an estimate amounting to Rs. 37,80,31,800/- was sent to NIS Authorities by ADG (R.CH.), CPWD, Chandigarh vide letter No. 23(2)/ADG(RCH)/EE(P)/4035-H dated 17.08.2022. **Now, this estimate has been modified as per Minutes of Meeting held on 26.08.2022 according to which the provisions of Ancillary block, Viewer's gallery and parking have been deleted from this estimate as desired by NIS authorities, Patiala.** Accordingly, this modified estimate has been framed for obtaining the necessary A/A & E/S from the competent authority of client department. Hence, this estimate.

DESIGN & SCOPE : The following main provisions have been made in this estimate for the work :-

A. Civil Work:

1. **Synthetic Athletic Track MONDO "WS"**
   - (i) Preparation and consolidation of sub grade with power road roller.
   - (ii) Supplying and stacking of Good Earth at site.
   - (iii) Construction of granular sub-base with material conforming to Grade-II (Size range 53mm to 0.075mm) having CBR value-25.
   - (iv) Providing, laying, spreading and compacting graded stone aggregate (Size range 53mm to 0.075mm) to wet mix macadam specification.
   - (v) Providing and laying Dense Graded Bituminous Macadam 50 to 100mm average compacted thickness.
   - (vi) Providing and laying bituminous concrete 40/50mm compacted thickness.
   - (vii) Preparation of bituminous surface by providing camber, slope, level etc.
   - (viii) Supply and Laying of MONDOTRACK WS13, 5MM GR.2(P06-P18-P31-P85) S/D Prefabricated sheet rubber track surface 13.5mm thick.
   - (ix) Supply and installation of track field equipments approved by "WA" such as Aluminium kerbing, discus cum hammer throwing, concentering circle, shot put

SE (Infra) SE (Electrical)

throwing circle, shot put toe board, pole vault box, cover for pole vault box, long jump/ triple jump take off board system, water jump hurdle with socket for steeple chase etc.

(x) Provision of Recharge well, underground water tank, pump room, RCC drain and 60mm thick M-30 grade cement concrete interlocking paver blocks.

(xi) Horticulture work.

2. **Cement Concrete Road**

(i) Providing and laying cement concrete road of M-30 grade.

B. Electrical Work:

1. 6 Nos. 35 metre high mast with approximate 14 Nos. sports LED lighting fixtures for upto 400 lux for athletic track, LED fittings alongwith flexible wire for lighting sitting area under fabricated shed, street light LED fittings, 5 metre height octagonal pole with flood light fittings etc.
2. Electrical panel, cable laying, earthing etc.
3. Sprinkler system for sports ground etc.

Specifications: The work shall be carried out as per CPWD specifications 2019, Vol. I and II and CPWD Electrical Specifications with up to date Correction Slips.

Rate: DSR-2021 & Market Rates (for Civil work), DSR -2020 (for Horticulture work) and PAR-2021 & Market Rates (For Electrical work).

Cost : **Rs. 28,81,07,700/-** i/c 3% contingencies.

W.C. Estt. : Shall be met out of 3% contingencies.

T & P : No special T&P is required if any, shall be arranged by the contractor.

Method: Through contract after call of tenders.

Land: Available with client department.

Time: After receipt of A/A & E/S:

a) For pre-construction activities	= 06 Months
b) For execution	= 15 Months
Total	**= 21 Months**

Other Information :-

(i) CPWD does not bind itself to complete the work within the estimated cost. Necessary revised estimate will be submitted when scope of work is increased/ changed or there is deviation in quantities executed.

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

(iii) The CPWD has no funds of its own for investing in the work. The client deptt. should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client deptt. fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client depttt. shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work i/c claims of contractors for compensation/damages. If additional funds are required, the same will have been provided by client deptt. on the Revised Estimates submitted by CPWD.

(iv) Funds for making payment of all amount which may be decreed by the Court of Law, Tribunal or by award of an Arbitrator in relation to the work will be made available by the client deptt. promptly irrespective of it not being a party before the Court, Tribunal

or Arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.

(v) The client deptt. will help CPWD in –

a) Providing site for labour huts for the contractor's labour free of cost.
b) Providing free access to contractor's materials and labour to the site of work.
c) Providing electricity connection for execution of work on payment of usual charges.
d) Sanction and release of load from the concerned electricity board / authority.

Note:

"The cost and time of the project is liable to revision due to probable escalation in cost of construction apart from reasons such as change of scope, area, design and specifications etc. if so desired by the client at a later date".

"The execution of the works will depend upon the receipt of the funds through authorization or through allocation well in time during the financial year".

"In the event of delay in taking over completed project or completed components of the projects independently as per phasing mutually agreed with client without awaiting the completion of the entire project, charges on security, re-finishing and re-commissioning, conservancy charges etc. shall be borne by the client".

"The preliminary architectural drawings and Preliminary Estimate shall be property of CPWD and the client shall not entrust the work to other agency and shall not use these drawings and this estimate".

"The estimated cost is valid for a period of one year, and that fresh requisition would be required if sanction is not conveyed within one year of the date of submission of PE".

07/09/2022

Assistant Engineer(E)(P)
O/o SE-Chandigarh,
CPWD, Chandigarh

07/09/2022

Chief Estimator (C),
O/o SE-Chandigarh,
CPWD, Chandigarh

05/09/2022

Superintending Engineer-Chandigarh,
CPWD, Chandigarh

JC (Infra)

JE (Electrical)

GENERAL ABSTRACT OF COST

Name of Work : Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb).

Sl.No.	Description of Work	Civil	Electrical	Horticulture	Amount	Remarks
1	Cement Concrete Road etc.	8018249.00		--	8018249.00	Annexure-I
2	Synthetic Athletic Track MONDO WS	191361237.00	49390885.00	766654.00	241518776.00	Annexure-II, III & IV
				Total:	**249537025.00**	
	Add for anticipated increase @ 3% in the cost during the period from the date of submission of PE to the completion of pre-construction activities. (As per Circular No. 68/SE(TAS) Cost Index/2020/483-H dated 16.12.2020)				7486111.00	
	Add for anticipated increase @ 3.75% (3% per annum for the increase in the cost during the period of completion work (As per Circular No. 68/SE(TAS) Cost Index/2020/483-H dated 16.12.2020)				9357638.00	
	Add Third Party Assurance @ 1%				2495370.00	
	Add Contingencies @ 3%				7486111.00	
					276362255.00	
	Add for EPF & ESI @ 4.25% on total value (As per OM No. DG/MAN.367 dated 16.03.2018)				11745396.00	
				Grand Total	**288107651.00**	
				Say Rs.	**288107700.00**	

Assistant Engineer(E) (P)
O/o SE-Chandigarh
CPWD, Chandigarh

Chief Estimator (C)
O/o SE-Chandigarh
CPWD, Chandigarh

Modified Preliminary cum Detailed Estimate amounting to **Rs. 28,81,07,700/-** (Rupees Twenty Eight Crores Eighty One Lakhs Seven Thousand and Seven Hundred) only is hereby submitted to client department for obtaining necessary A/A & E/S of the competent authority.

Superintending Engineer-Chandigarh
CPWD, Chandigarh

JE (Electrical)

Annexure-I

ABSTRACT OF COST

Name of Work : Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb). SH:- Cement Concrete Road etc.

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
1.0		**Concrete Work**				
1.1	4.20	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 10% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
1.1.1	4.20.1	All works upto plinth level :				
1.1.1.1	4.20.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	390.00	cum	8033.20	3132948.00
2.0		**Road Work**				
2.1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres	3000.00	sqm	180.50	541500.00
2.2	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately)				

DC (Infra)

JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
		Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately				
2.2.1	16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	360.00	cum	10,006.65	3602394.00
2.3	16.46	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.				
2.3.1	16.46.1	Using grade 'A' sealing compound conforming to IS 1834	4020.00	per cm depth per cm width per metre length	7.50	30150.00
2.4	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	36.00	cum	8613.55	310088.00
				TOTAL	W	**7617080.00**
		Add difference of GST (@18% in place of 12%) = WX1.0633 As per OM No. SE(TAS)/GST/2022/331-H dated 10.08.2022				8099241.00
		Minus cost Index @ 1.00% on except NS items (C I approved for Chandigarh vide letter No. 23(Cost Index)/ADG(Region-Chandigarh)/EE(P)/3751-H dated 24.11.2021)			8099241	-80992.00
				TOTAL		**8018249.00**

02/09/2022
Chief Estimator (C)
O/o SE-Chandigarh
CPWD, Chandigarh

JC (Civil)

JE (Electrical)

Annexure-II

ABSTRACT OF COST

Name of Work : Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb). SH:- Installation of Synthetic Atheletic Track Mondo WS at SAI NS NIS Patiala (Pb).

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
		1. Earth Work				
1	2.3	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m				
1.1	2.3.1	All kinds of soil	3790.00	cum	543.30	2059107.00
1.2	2.6	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				
1.2.1	2.6.1	All kinds of soil.	751.00	cum	205.45	154293.00
1.3	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1.3.1	2.8.1	All kinds of soil.	280.00	cum	286.85	80318.00
1.4	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m				
1.4.1	2.10.1	All kinds of soil				
1.4.1.1	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	890.00	metre	417.35	371442.00
1.5	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	402.00	cum	253.95	102088.00
1.6	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				
1.6.1	2.26.1	All kinds of soil.	544.00	cum	104.50	56848.00
1.7	2.27	Supplying and filling in plinth with sand under				

JC (Infra)

JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
2.0		**Concrete Work**				
2.1	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 :				
2.1.1	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	26.00	cum	7783.65	202375.00
2.1.2	4.1.3	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)	40.00	cum	7365.15	294606.00
2.1.3	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	227.00	cum	6050.65	1373498.00
2.2	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
2.2.1	4.3.1	Foundations, footings, bases for columns	363.00	sqm	307.95	111786.00
2.2.2	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	40.00	sqm	669.55	26782.00
3.0		**Reinforced Concrete Work**				
3.1	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
3.1.1	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	1094.00	sqm	669.55	732488.00
3.1.2	5.9.3	Suspended floors, roofs, landings, balconies and access platform	80.00	sqm	766.55	61324.00
3.2	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.2.1	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	16800.00	kg	89.65	1506120.00
3.3	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.3.1	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500 D or more	700.00	kg	89.65	62755.00

JC (Civil)

Praveen Kumar
JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
3.4	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement 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 10% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
3.4.1	5.33.1	All works upto plinth level				
3.4.1.1	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	168.00	cum	7997.30	1343546.00
3.4.2	5.33.2	All works above plinth level upto floor V level				
3.4.2.1	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	7.00	cum	10080.15	70561.00
4.0		**Brick Work**				
4.1	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
4.1.1	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand).	156.00	cum	6882.00	1073592.00
4.2	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 :				
4.2.1	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	25.00	cum	8288.35	207209.00
5.0		**Cladding Work**				
5.1	8.31	Providing and fixing Ist 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	130.00	sqm	1063.45	138249.00

JC (Mtce)

JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
6.0		**Steel Work**				
6.1	10.6	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.				
6.1.1	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	3.00	sqm	3008.80	9026.00
6.2	10.7	Providing and fixing ball bearing for rolling shutters.	2.00	each	424.20	848.00
6.3	10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
6.3.1	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	1.50	sqm	1108.70	1663.00
6.4	10.25	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				
6.4.1	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1412.00	kg	142.30	200928.00
7.0		**Flooring**				
7.1	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	40.00	sqm	855.90	34236.00
7.2	11.37	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 @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete	40.00	sqm	935.60	37424.00

Damit
JE (Mytra)

Dhruva Kumar
JE (electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
8.0		**Roofing**				
8.1	12.15	Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cudm per 10 sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :				
8.1.1	12.15.1	With residual type petroleum bitumen of grade VG -10	40.00	sqm	133.15	5326.00
8.2	12.16	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.				
8.2.1	12.16.1	With common burnt clay F.P.S.(non modular) brick tile of class designation 10	40.00	sqm	905.80	36232.00
8.3	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
8.3.1	12.21.1	In 75x75 mm deep chase	26.00	metre	260.20	6765.00
8.4	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2.00	each	266.60	533.00
8.5	12.41	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, (i) Single socketed pipes.				
8.5.1	12.41.2	110 mm diameter	4.00	metre	319.75	1279.00
8.6	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.				
8.6.1	12.42.5	Bend 87.5°				
8.6.1.1	12.42.5.2	110 mm bend	1.00	each	132.00	132.00
8.6.2	12.42.6	Shoe (Plain)				
8.6.2.1	12.42.6.2	110 mm Shoe	1.00	each	115.95	116.00
8.7	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				

JC (Civil)

JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
9.0		**Finishing**				
9.1	13.4	12 mm cement plaster of mix				
9.1.1	13.4.1	1:4 (1 cement: 4 coarse sand)	234.00	sqm	307.25	71897.00
9.2	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix				
9.2.1	13.7.2	1:4 (1 cement: 4 fine sand)	401.00	sqm	361.30	144881.00
9.3	13.16	6 mm cement plaster of mix				
9.3.1	13.16.1	1:3 (1 cement : 3 fine sand)	600.00	sqm	253.05	151830.00
9.4	13.18	Neat cement punning	640.00	sqm	67.80	43392.00
9.5	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				
9.5.1	13.42.1	Two or more coats on new work	127.00	sqm	92.75	11779.00
9.6	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface				
9.6.1	13.43.1	Water thinnable cement primer	127.00	sqm	64.45	8185.00
9.7	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
9.7.1	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	144.00	sqm	162.35	23378.00
9.8	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
9.8.1	13.61.1	Two or more coats on new work	55.00	sqm	131.45	7230.00
9.10	13.80	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.	271.00	sqm	123.85	33563.00
10.0		**DISMANTLING AND DEMOLISHING**				
10.1	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
10.1.1	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	150.00	cum	2007.10	301065.00
11.0		**Road Work**				
11.1	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres	8523.00	sqm	180.50	1538402.00
11.2	16.3	Supplying and stacking at site				
11.2.1	16.3.9	Good earth	3790.00	sqm	624.55	2367045.00
11.3	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
		16.30.1 on WBM @ 0.75 Kg/ Sq m 16.30.2 on bituminous surface @ 0.5 Kg/ Sq m	8523.00 8523.00	sqm sqm	45.20 36.60	385240.00 311942.00

Dawal L (Engineer)

Dhiwar Pandey JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
11.4	16.54	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.				
11.4.1	16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	426.00	cum	10013.30	4265666.00
11.5	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
11.5.1	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	341.00	cum	10870.75	3706926.00
11.6	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M - 30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	1280.00	sqm	951.00	1217280.00
11.7	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	32.00	cum	8613.55	275634.00

Sanil
JC (Infra)

Jaiswal Kumar
JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
11.8	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
11.8.1	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	1705.00	cum	2775.65	4732483.00
11.9	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density, complete as per specifications and directions of Engineer-in-Charge.	1705.00	cum	2803.65	4780223.00
12.0		**Drainage**				
12.1	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
12.1.1	19.6.3	250 mm dia. R.C.C. pipe	910.00	metre	811.15	738147.00
12.2	19.29	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :				
12.2.1	19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10.00	each	10596.95	105970.00
13.0		**Water Proofing**				
13.1	22.2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :				
13.1.1	22.2.1	Using rough Kota stone	102.00	sqm	1780.30	181591.00

Bhuvan Kumar
J.E (electrical)

DC (Mines)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
14.0		**Rain Water Harvesting & Tubewells**				
14.1	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer –in-charge, upto 90 metre depth below ground level.				
14.1.1	23.1.1	All types of soil				
14.1.1.1	23.1.1.1	300 mm dia.	360.00	metre	592.05	213138.00
14.2	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
14.2.1	23.2.1	All types of soil				
14.2.1.1	23.2.1.1	300 mm dia.	129.00	metre	690.70	89100.00
14.3	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer–in-charge.				
14.3.1	23.3.2	150 mm nominal size dia	276.00	metre	668.50	184506.00
14.4	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
14.4.1	23.4.2	150 mm nominal size dia	192.00	metre	681.90	130925.00
14.5	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	33.00	cum	1302.30	42976.00
14.6	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	44.00	cum	1309.00	57596.00
14.7	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	33.00	cum	1309.00	43197.00

DC (Office)

JE/Electrical

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
14.8	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	32.00	cum	1479.25	47336.00
14.9	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineerin-charge.	400.00	each	1,213.25	485300.00
14.10	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
14.10.1	23.14.2	150 mm clamp	4.00	each	1609.25	6437.00
14.11	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
14.11.1	23.15.2	150 mm dia	8.00	each	281.75	2254.00
					A	**37226853.00**
15.0		**Synthetic Atheletic Track items**				
15.1	M/R	Preparation of bituminous surface by providing camber, slope, level etc. as per drawing before laying of synthetic track with 4 m straight edge and thread to make proper level by fine bituminous material or deep patch materials as per requirement and specifications of latest "WA" and as per direction of Engineer-in-charge.	1705.00	sqm	292.15	498116.00
15.2	M/R	Supply and Laying of MONDOTRACK WS13, 5MM GR.2 (P06-P18-P31-P85) S/D Prefabricated sheet rubber track surface, 13.5mm thick, composed of two different layers vulcanized together. The shore hardness of the top layer is greater than that of the bottom layer. The top layer houses an innovative internal skeleton consisting of a three dimensional network of deformable elements with controlled composition and elasticity. It provides elasticity and is embossed so as to guarantees optimal traction and greater area of contact as well as an efficient water flow in rainy conditions. The bottom layer consists of an elongated honeycomb-shaped geometric construction, deformable in three dimensions, that provides cushioning, energy return and optimal lateral support.				
		The top layer is available in standard colors. The bottom layer is similar in color to the top layer. The product is certified by the IAAF and complies with the European Standard EN 14877:2013 Athletics. The product is manufactured in compliance with the European Regulation REACH that adresses the Production and Chemicals				

JE (Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
15.2.1	(i)	Normal Stress Areas with a minimum thickness of 13.5 mm of finished track surface	8523.00	sqm	13968.05	119049690.00
15.3	M/R	Supply and Laying of BASELAST UNDERLAYMENT 7mm rolls for High stress area having overall thickness 20mm as per " WA" standard specification (High stress area consider Pole vault runway = 4x1.35x8 = 43.20 sqm , Long jump/triple jump runway = 4 x 1.35x13 = 70.20 sqm , Javelin runway = 2x4.05x9 = 72.90 sqm , High jump = 2x3x10 = 60 sqm) Total = 246 sqm as per WA specification	246.00	sqm	5529.05	1360146.00
15.4	M/R	Supply and Laying of BASELAST UNDERLAYMENT 12mm rolls for High stress area having overall thickness 25mm , as per " WA" standard specification (High stress area consider : Steeple chase water jump pit runway = 3.82x3.82 = 14.64 sqm) Total = 14.64 sqm as per WA specification	13.00	sqm	9416.80	122418.00
15.5	M/R	Supply and Laying of (EPU 200 GR.1) PU for minor levelling work spread rate of approx. 0.80 kg/sqm. to acheive the surface smooth as per WA specification the depressions of the substrate can be leveled prior to installation with a specific non-resilient and non–self-leveling product.	6819.00	kg	896.30	6111870.00
15.6	M/R	Supply and Laying of (EPU 200 GR.2) PU for installation work spread rate of approx. 1.50 kg/sqm.The product is glued to the substrate with a specific formulation of a two-component thixotropic epoxypolyurethane adhesive. The adhesive application procedure ensures a uniform air cell volume over the entire surface. The vertical joints between the adjacent sheets are pre-compressed and sealed with the adhesive.	12785.00	kg	931.20	11905392.00
15.7	M/R	Supply and Laying of (H21B) Single component line marking paint in all "WA" standard colours (quantities for athletic track in blue colour) White - 7 x 20 kg , Yellow - 1 x 5 kg , Red - 1x 5 kg, , Blue - 1x2 kg, Green - 1 x 3 kg , Black - 1 x 2 kg.	157.00	kg	4190.40	657893.00
15.8	M/R	Supply and installation of track field equipment approved by "WA" : Aluminium kerbing for 400m standard track (Aluminium kerb demountable (AV150A))	410.00	metre	2415.30	990273.00
15.9	M/R	Supply and installation of track field equipment approved by "WA" : Discuss cum hammer throwing concentric circle (Discuss / hammer aluminium concentric circle(AL095))	1.00	each	127458.65	127459.00
15.10	M/R	Supply and installation of track field equipment approved by "WA" : Discuss throwing circle of dia 2.50m (Discuss aluminium circle 2.50m (AL085))	1.00	each	38412.20	38412.00
15.11	M/R	Supply and installation of track field equipment approved by "WA" : Shotput throwing circle of dia 2.135m (Shotput aluminium circle diameter 2.135m (AL055))	2.00	each	38412.20	76824.00
15.12	M/R	Supply and installation of track field equipment approved by "WA" Shotput Toe board made Stainless steel (Shotput Stainless Steel toe board (AL065)	2.0	each	52380.25	104761.00

(Contra)

Bhuvan Kumar (JE Electrical)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
15.13	M/R	Supply and installation of track field equipment approved by "WA" : Cover for pole vault box made stainless steel (Pole vault cover stainless steel (AE005)).	4.00	each	47724.25	190897.00
15.14	M/R	Supply and installation of track field equipment approved by "WA" : pole vault box high quality made stainless steel (Pole vault box stainless steel (AE015)).	4.00	each	55872.30	223489.00
15.15	M/R	Supply and installation of track field equipment approved by "WA" : Long jump / triple jump take off board system made stainless steel (Take of board system stainless steel (ATK02)).	12.00	each	127458.65	1529504.00
15.16	M/R	Supply and installation of track field equipment approved by "WA" : Water jump hurdle with socket for steeple chase (Water jump steeple chase (AC021)).	1.00	each	127458.65	127459.00
					B	**143114603.00**
					Total (A+B)	**180341456.00**
		Add difference of GST (@18% in place of 12%) = WX1.0633 As per OM No. SE(TAS)/GST/2022/331-H dated 10.08.2022				191757070.00
		Minus cost Index @ 1.00% on all except M/R items (37226853x1.0633)= (C.I approved for Chandigarh vide letter No. 23(Cost Index)/ADG(Region-Chandigarh)/EE(P)/3751-H dated 24.11.2021)			39583313	-395833.00
					TOTAL	**191361237.00**

02/09/2022
Chief Estimator (C)
O/o SE-Chandigarh
CPWD, Chandigarh

JC (Infra)

JE (Electrical)

Annexure-III

ABSTRACT OF COST

Name of Work : Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb). SH:- Installation of Synthetic Atheletic Track Mondo WS at SAI NS NIS Patiala (Pb). SW: Horticulture work

Sl.No.	DSR 2020 (Hort.)	Description of Items	Qty	Unit	Rate	Amount
1.0	DSR 2020	**Horticulture**				
1.1	2.3	Supplying and stacking sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment)	796.00	cum	294.00	234024.00
1.2	2.4	Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment)				
1.2.1	2.4.1	Screened through sieve of I.S. designation 20 mm	796.00	cum	254.15	202303.00
1.3	2.5	Rough dressing the trenched ground including breaking clods	7957.00	sqm	1.50	11936.00
1.4	2.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation	7957.00	sqm	4.90	38989.00
1.5	2.7	Fine dressing of the ground	7957.00	sqm	3.70	29441.00
1.6	2.8	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid separately)	796.00	cum	52.35	41671.00
1.7	2.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	796.00	cum	36.55	29094.00
1.8	2.10	Grassing with selection No. 1 Doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately)				
1.8.1	2.10.1	In rows 5 cm apart in both directions	7957.00	sqm	17.70	140839.00
					TOTAL	**728297.00**
		Add difference of GST (@18% in place of 12%) = WX1.0633 As per OM No. SE(TAS)/GST/2022/331-H dated 10.08.2022				774398.00
		Minus cost Index @ 1.00% on all except M/R items (C I approved for Chandigarh vide letter No. 23(Const. Index)/ADG(Region-chandigarh)/EE(P)/3751-H dated 24.11.2021)			774398	-7744.00
					TOTAL	**766654.00**

G. Sukhwinder
05/09/2022
Chief Estimator (C)
O/o SE-Chandigarh
CPWD, Chandigarh

Dawit (Contra)

Approved
JE (Electrical)

Annexure-IV

Abstract of Cost

Name of work: Installation of Synthetic Athletic Track MONDO WS along with associated works at SAI NS NIS Patiala (Pb). SH: Electrical Works

Sl.No.	Description of items	Qty.	Rate	Unit	Amount	Remarks
	SH-(Electrical Panel and Cable Laying)					
1	Supply & laying of one number PVC insulated and PVC sheathed/ XLPE aluminium conductor power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
a)	3.5 x 25 sq mm	40.00	674.00	Mtr.	26960.00	MR
b)	3.5 x 50 sq mm	50.00	932.00	Mtr.	46600.00	MR
c)	3.5 x 70 sq mm	200.00	1149.00	Mtr.	229800.00	MR
d)	3.5 x 120 sq mm	350.00	1630.00	Mtr.	570500.00	MR
e)	3.5 x 150 sq mm	300.00	1846.00	Mtr.	553800.00	MR
f)	4 Nos. single core 300 sq.mm	300.00	5314.00	Mtr.	1594200.00	MR
2	Fabrication, Installation, testing & commissioning of Electrical Panel for sports LED Lighting fixtures and for sprinkler system complete etc as required.	1.00	1218008.00	Job	1218008.00	MR
3	SITC of sport LED lighting fixtures 1.6 kw LED luminaries conforming to international standard on 35 mtr high mast complete etc as required.	86.00	279977.00	Job	24078022.00	MR
4	SITC of 35 m stadium mast alongwith marider unit, raising-lowering accessories of marider unit, single dome LED aviatiion obstruction light and foundation bolt etc complete as required.	6.00	2154744.00	Each	12928464.00	MR
5	SITC of 40 W street light on existing pole etc. complete as required.	54.00	7522.12	Each	406195.00	MR
6	SITC of 5 m high octagonal pole including accessories complete etc. as required.	54.00	17926.20	Each	968015.00	MR
7	Earthing with G.I. earth plate/ pipe of size 600 mm X 600 mm X 6 mm thick & 4.5 long respectively including accessories, providing and fixing 25mm x5 mm G.I. strip in 40 mm dia etc. as required.	8	10000	Set	80000.00	MR
	SH-II (Sprinkler System)					
1	Supply and installation of fully computerized, automatic and single key operation pop-up spinkler system specifically dsigned for ground including all fittings and accessories including earth work in excavation and re-filling (earth work includes 450mm of soil cover over the pipe and width of 300) HDPE pipe dia 150/110mm class pe 100 graede12.5g/cm2. "including carriage of materials within all leads and lifts and other incidental charges.	1.00	3500000.00	Job	3500000.00	MR

3.7

Damit
JC (Infra)

Ashwani Kumar
JE (electrical)

Sl.No.	Description of items	Qty.	Rate	Unit	Amount	Remarks
2	Supplying and instllation of 50H.P coupled pumping set with electronic controller etc or equivalent ,making connections suitable for T W/D C B/ open well the job includes screwing and welding of flanges on GI B-class riser pipes, installation of complete fittings and accessories with riser pipes, jointing of electrical cable and other connections layout of the same along with details of product is to be got approved by the Engineer-in-charge	1.00	250000.00	Job	250000.00	MR
			Total		**46450564.00**	
	Add difference of GST (@18% in place of 12%) = WX1.0633			**W**	**49390885.00**	
	As per OM No. SE(TAS)/GST/2022/331-H dated 10.08.2022					
			Total		**49390885.00**	

Assistant Engineer(E) (P)
O/o SE-Chandigarh
CPWD, Chandigarh

JE (Civil)

JE (Electrical)

Annexure - III A

Replacement of 400M-8 Lane Synthetic Athletic Track-1 at SAI NS NIS Patiala		
S. No.	**Description**	**Amount (Rs.)**
1	Civil Work including Excavation work, PCC, RCC, Marble Flooring, interlocking paver work, RCC Pipes and Bore Well etc.	11270519.39
2	Bituminous Surfaces (Sub Base, Base, Binder, Surface Course etc.)	13623992.72
3	Removal of Old Track and dismantling of other items	1984239.02
4	Providing and Laying Synthetic Athletic Track Full PUR system only with Full EPDM as per WAF Specifications and Certification	72906803.05
5	Horticulture Work	1026267.00
6	Electrical works, Cable laying, Pump & Sprinkler System	6119249.00
7	Underground Sump & Pump Room	3551567.00
8	Fabricated Shed Work Over Seating Area	3207542.27
9	Providing and applying of UV Protective PU Spray Coat	5661804.55
	Sub-Total (A)	**119351984.00**
	Anticipated Increase @ 3% in the cost during the period from the date of submission of PE	3580560.00
	Anticipated Increase @ 3.75% (3% per annum for the increase in the cost during the period of completion work	4475699.00
	Add @ 1% for Third Party Quality Assurance	1193520.00
	Add Contingencies @ 3%	3580560.00
	Add for EPF & ESI @ 4.25% on A	0.00
	Sub-Total (B)	**12830339.00**
	Total (A+B)	**132182323.00**
	Add for EPF & ESI @ 4.25% on Total Value	5617749.00
	Grand Total	**137800072.00**
	SAY (In Rs.)	**13.78 Cr.**

Annexure - III B

प्रशासन शाखा
नं. 1007
दिनांक 9/9/22

भारत सरकार
GOVERNMENT OF INDIA
केन्द्रीय लोक निर्माण विभाग
CENTRAL PUBLIC WORKS DEPARTMENT

कार्यालय अधीक्षण अभियंता, चण्डीगढ़
केन्द्रीय सदन, सैक्टर 9-ए,
चण्डीगढ़ - 160009
दूरभाष: 0172.2743914
फैक्स: 0172.2741673

O/o Superintending Engineer, Chandigarh
Kendriya Sadan, Sector 9-A,
Chandigarh-160009
E-mail: ce.chd@cpwd.gov.in

संख्या : 23(186)/अ0अभि0(चण्डीगढ़)/ 1680 दिनांक: 08/09/2022

सेवा में,

The Senior Executive Director,
Sports Authority of India,
Netaji Subhas National Institute of Sports,
Patiala (Punjab).

विषयः— **Replacement of 400M- 8 lanes Synthetic Athletic Track-1 at NS, NIS Patiala (Pb).**

Rs. 13,78,00,072/-

महोदय,

उपरोक्त कार्य का संशोधित (modified) प्रारम्भिक अनुमान जिसकी लागत रूपये **Rs. 17,94,76,600/- (Rupees Seventeen Crores Ninety Four Lakhs Seventy Six Thousand and Six Hundred)** मात्र है, उपयुक्त अधिकारी द्वारा प्रशासनिक अनुमोदन एवं व्यय स्वीकृति हेतु भेजा जा रहा है। कार्य का प्रयोजन तथा आवश्यकता का उल्लेख अनुमान में कर दिया गया है। आपसे अनुरोध है कि अनुमान को शीघ्र स्वीकृत करने की कृपा करें अन्यथा समय के साथ साथ मूल्य सूचकांक में वृद्धि होने के कारण इस कार्य के निष्पादन में कठिनाई हो सकती है। आपसे अनुरोध है कि कार्य की स्वीकृति भेजते समय "लेखा शीर्ष" (**Head of Account**) जिसके अंतर्गत व्यय किया जाना है, सूचित किया जाए।

संलग्नः- संशोधित (modified) प्रारम्भिक अनुमान (दो प्रतियों में)

07/09/2022

(एन0 के0 बंसल)
अधीक्षण अभियंता-चण्डीगढ़,
के0लो0नि0वि0, चण्डीगढ़।

प्रतिलिपिः-

1. विशेष महनिदेशक - चंडीगढ़, के०लो०नि०वि०, सैक्टर 9-ए, चंडीगढ़ को सूचनार्थ प्रेषित है ।
2. वरिष्ठ वास्तुक (चंडीगढ़), के०लो०नि०वि०, सैक्टर 9-ए, चंडीगढ़ को सूचनार्थ हेतु ।
3. कार्यपालक अभियंता–चंडीगढ़-II, के०लो०नि०वि०, सैक्टर 7-बी, चंडीगढ़ को उनके पत्र संख्या: CHD-2/20(103-P)/2022 - 23/3357 दिनांक 05.09.2022 के सन्दर्भ में अनुमान की प्रति सहित ।
4. कार्यपालक अभियंता (वै०)– चंडीगढ़, के०लो०नि०वि०, सैक्टर 9-ए, चंडीगढ़ को उनके पत्र संख्या: 24(165)/CCED/2022-23/3603 दिनांक 05.09.2022 के सन्दर्भ में अनुमान की प्रति सहित ।

अधीक्षण अभियंता-चण्डीगढ़

GOVT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE PUNJAB **DIVISION: CHD-II** **BRANCH: B&R**

Name of work: - Replacement of 400M- 8 lanes Synthetic Athletic Track-1 at NS, NIS Patiala (Pb).

MAJOR HEAD	MINOR HEAD	DETAILED HEAD

This modified Preliminary cum Detailed Estimate framed by Er. Abhishek Khatri, Executive Engineer- Chandigarh-II, CPWD, Chandigarh and Er. Parveen Kumar, Executive Engineer(E)- Chandigarh, CPWD, Chandigarh and further processed in the O/o Superintending Engineer-Chandigarh, CPWD Chandigarh for the probable cost of **Rs. 17,94,76,600/-** i/c 3% contingencies.

REPORT

HISTORY: This modified Preliminary cum Detailed Estimate amounting to **Rs. 17,94,76,600/-** including 3% contingencies has been framed to cover the probable cost of the above work. The requisition for the above said work has been received from Sports Authority of India, J.L.N. Stadium, New Delhi, vide their letter no. 01-11024(06)/2/2021-HO-Infra Division/942 dated 26.11.2021. The synthetic track-1 estimate was discussed in meeting with the Sr. Executive Director, NS, NIS, Patiala on 20.01.2022 and some clarifications were received for this estimate from the NIS authorities by mail on 26.02.2022. Initially, Preliminary Estimate was prepared on taking the illumination level for athletic track of 1000 lux. Subsequently, during the meeting with Director (Infrastructure) at Chandigarh on 11.06.2022, it was informed to submit PE after considering the illumination level for athletic track of 400 lux. But NIS Patiala vide e-mail dated 08.07.2022 confirmed that illumination level for athletic track shall be of 800 lux. Further, during meeting between DG(SAI) and ADG (R.CH), CPWD, Chandigarh on 13.07.2022, it was informed by SAI authority that illumination level for athletic track shall be of 400 lux. Accordingly, an estimate amounting to Rs. 15,87,70,100/- was sent to NIS authorities by ADG (RCH), CPWD, Chandigarh vide letter No. 23(2)/ADG(RCH)/EE(P)/3790-H dated 29.07.2022. **Now, this estimate has been modified as per discussion held in the meeting with Director (Infra), in the office of Senior Executive Director (A), NS, NIS, Patiala on 02.08.2022 and Minutes of Meeting received through email on 05.08.2022 and as per meeting held on 26.08.2022 under the chairmanship of Secretary, SAI through video conference which was also attended by Superintending Engineer-Chandigarh.**
Accordingly, this modified estimate has been framed for obtaining the necessary A/A & E/S from the competent authority of client department.

DESIGN & SCOPE: The following provisions have been made in this estimate: -

A. Civil Work:

1. Providing and fixing of "WAF" (formerly known as IAAF) approved misc. track field original equipment manufacturer from European/ American/ Australian region only as per Minutes of Meeting dated 02.08.2022 issued by NS, NIS, Patiala.
2. Relaying of Synthetic Athletics Track by providing and laying "WAF" (formerly known as IAAF) approved Synthetic Athletics Track FULL PUR system with full EPDM (without re-cycled rubber) original equipment manufacturer from European/ American/ Australian region only as per Minutes of Meeting dated 02.08.2022 issued by NS, NIS, Patiala including line marking on the surfaces all complete as per specification laid down by "WAF" (formerly known as IAAF) Class I Certification

Normal Stress Areas with a minimum thickness of 15 mm, 20mm and 25mm of finished track surface, wherever required as per site requirements.

3. Providing and laying 63mm thick of bituminous macadam.
4. Providing and laying 40mm thick of bituminous concrete.
5. Providing and laying seal coat over bituminous concrete surface.
6. Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam (WMM) specification.
7. Providing and applying of UV protective PU spray coat of "WAF" approved product manufacturer of required colour over top layer.
8. Rain water harvesting.
9. Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade.
10. Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc. for shed over seating area.
11. Providing and laying M-25 for RCC drain etc.
12. Providing and laying in position cement concrete 1:2:4, I:4:8 & 1:5:10 for base of RWH, Drain & Paver blocks.
13. Brick work with common burnt clay F.P.S. (non- modular) bricks of class designation 7.5 for RWH.
14. Provision of 1.50 lakh litre capacity UG Sump and Pump room.

NOTE:

1. The quantity of WMM has been modified and item No.16.55/ DSR 2021 has been added i.e. "Providing & Laying Bituminous Macadam" is taken as per WAF approved Typical Synthetic Athletic Track Section at NIFTEM Sonepat which was constructed in 2008 and the cross section of the track issued by CSO, CPWD is enclosed. The Bituminous concrete is laid on water bound Macadam Sub Base whereas in the typical cross section of track 63mm thick Bituminous Macadam is shown. The provision of 63mm thick Bituminous Macadam layer is taken in this modified estimate.
2. The item at Sr. No. 58 i.e. Providing and applying UV protective PU Spray coat of WAF approved product has been taken. This is a UV Protective layer and is optional treatment.
3. The provision of providing and laying Wet Mix Macadam (WMM) has been taken in this modified estimate.
4. The items taken in the Horticulture Works Sub-Head (Annexure-II) have been changed as per discussion held in meeting. It was decided that the complete Soccer Area, Area around track need grassing with Doob Grass. Accordingly, the quantity of all the related items have been increased. In the meeting, it was felt that during construction of Athletic Track, Soccer Area and other area around track will become unserviceable.

B. Electrical Work:

1. 6 Nos. 35 metre high mast with approximate 14 Nos. sports LED lighting fixtures for upto 400 lux for athletic track, LED fittings alongwith flexible wire for lighting sitting area under fabricated shed etc. complete.
2. Electrical panel, cable laying, earthing etc. complete.
3. Sprinkler system for sports ground including softening plant etc. complete.

Specifications: The work shall be carried out as per CPWD specifications 2019, Vol. I & II and CPWD Electrical Specifications with up to date correction Slips.

Rate: DSR 2021 & Market Rates (for Civil work), DSR 2020 (for Horticulture and Landscaping work) and Market Rates (For Electrical work).

Cost : **Rs. 17,94,76,600/-** i/c 3% contingencies.

W.C. Estt. Shall be met out of 3% contingencies.

T & P : No special T&P is required if any, shall be arranged by the contractor.
Method: Through contract after call of tenders.
Land: Available with client department.
Time: After receipt of A/A & E/S:

a) For Pre-construction activities	= 03 Month
b) For execution	= 15 Months
Total	**= 18 Months**

Other Information:-

(i) CPWD does not bind itself to complete the work within the estimated cost. Necessary revised estimate will be submitted when scope of work is increased/ changed or there is deviation in quantities executed.

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

(iii) The CPWD has no funds of its own for investing in the work. The client deptt. should, therefore, ensure that adequate funds are available with CPWD for executing the work. In case the client deptt. fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client depttt. shall be solely responsible for all the consequences arising out of such stoppage/abandonment of work i/c claims of contractors for compensation/damages. If additional funds are required, the same will have been provided by client deptt. on the Revised Estimates submitted by CPWD.

(iv) Funds for making payment of all amount which may be decreed by the Court of Law, Tribunal or by award of an Arbitrator in relation to the work will be made available by the client deptt. promptly irrespective of it not being a party before the Court, Tribunal or Arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.

(v) The client deptt. will help CPWD in –

a) Providing site for labour huts for the contractor's labour free of cost.
b) Providing free access to contractor's materials and labour to the site of work.
c) Providing electricity connection for execution of work on payment of usual charges.
d) Sanction and release of load from the concerned electricity board / authority.

NOTE:

"The cost and time of the project is liable to revision due to probable escalation in cost of construction apart from reasons such as change of scope, area, design and specifications etc. if so desired by the client at a later date".

"The execution of the works will depend upon the receipt of the funds through authorization or through allocation well in time during the financial year".

"In the event of delay in taking over completed project or completed components of the projects independently as per phasing mutually agreed with client without awaiting the completion of the entire project, charges on security, re-finishing and re-commissioning, conservancy charges etc. shall be borne by the client".

"The preliminary architectural drawings and Preliminary Estimate shall be property of CPWD and the client shall not entrust the work to other agency and shall not use these drawings and this estimate".

"The estimated cost is valid for a period of one year, and that fresh requisition would be required if sanction is not conveyed within one year of the date of submission of PE".

07/09/2022

Assistant Engineer(E)(P)
O/o SE-Chandigarh,
CPWD, Chandigarh

07/09/2022

Chief Estimator (C),
O/o SE-Chandigarh,
CPWD, Chandigarh

07/09/2022

Superintending Engineer-Chandigarh,
CPWD, Chandigarh

Jr (electrical)

JC (M&A)

GENERAL ABSTRACT OF COST

Name of work:- Replacement of 400M- 8 lanes Synthetic Athletic Track-1 at NS, NIS Patiala (Pb).

Sl.No.	Description of Work	Civil	Horticulture	Electrical	Total	Remarks
1	400M- 8 lanes Old Synthetic Atheletic Track-1	108654901.00	1026267.00	42216293.00	151897461.00	Annexure-I, II & III
2	Underground Sump and Pump Room	3551567.00	-	-	3551567.00	Annexure-IV
				Total:	**155449028.00**	
	Add for anticipated increase @ 3% in the cost during the period from the date of submission of PE to the completion of pre-construction activities. (As per Circular No. 68/SE(TAS) Cost Index/2020/483-H dated 16.12.2020)				4663471.00	
	Add for anticipated increase @ 3.75% (3% per annum for the increase in the cost during the period of completion work (As per Circular No. 68/SE(TAS) Cost Index/2020/483-H dated 16.12.2020)				5829339.00	
	Add @ 1% for Third Party Quality Assurance				1554490.00	
	Add Contingencies @ 3%				4663471.00	
					172159799.00	
	Add for EPF & ESI @ 4.25% on total value (As per OM No. DG/MAN.367 dated 16.03.2018)				7316791.00	
				Grand Total	**179476590.00**	
				Say Rs.	**179476600.00**	

07/09/2022

Assistant Engineer(E) (P)
O/o SE-Chandigarh
CPWD, Chandigarh

07/09/2022

Chief Estimator (C)
O/o SE-Chandigarh
CPWD, Chandigarh

Modified Preliminary cum Detailed Estimate amounting to **Rs. 17,94,76,600/-** (Rupees Seventeen Crores Ninety Four Lakhs Seventy Six Thousand and Six Hundred) only is hereby submitted to client department for obtaining the necessary A/A & E/S of the competent authority.

07/09/2022

Superintending Engineer-Chandigarh
CPWD, Chandigarh

JE (Electrical)

JC (Hqrs)

Annexure-I

ABSTRACT OF COST

Name of work : Replacement of 400M- 8 lanes Synthetic Athletic Track-1 at NS, NIS Patiala (Pb).
SH: Civil Work

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
		Civil Work:				
1	2.6	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-in-charge.				
(i)	2.6.1	All kinds of soil.	292.00	cum	205.45	59991.00
2	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
(i)	2.8.1	All kinds of soil.	464.00	cum	286.85	133098.00
3	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
(i)	2.10.1	All kinds of soil				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	830.00	metre	417.35	346401.00
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	232.00	cum	253.95	58916.00
5	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				
(i)	2.26.1	All kinds of soil.	305.00	cum	104.50	31873.00
6	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	91.00	cum	2161.20	196669.00
7	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 :				
(i)	4.1.3	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).	43.00	cum	7365.15	316701.00
(ii)	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	41.00	cum	6326.05	259368.00
(iii)	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm				

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
8	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
(i)	4.3.1	Foundations, footings, bases for columns	339.00	sqm	307.95	104395.00
(ii)	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	40.00	sqm	669.55	26782.00
9	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
(i)	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	298.00	sqm	307.95	91769.00
(ii)	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	720.00	sqm	669.55	482076.00
(iii)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	12.00	sqm	804.25	9651.00
10	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
(i)	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	13500.00	kg	89.65	1210275.00
11	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement 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 10% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	All works upto plinth level				
(i)	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	135.00	cum	7997.30	1079636.00
12	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
(i)	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	137.00	cum	6882.00	942834.00
13	10.16	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.				
(i)	10.16.3	Electric resistance or induction butt welded tubes	16000.00	kg	140.85	2253600.00
14	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	480.00	kg	88.50	42480.00

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
15	10.25	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.				
(i)	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1412.00	kg	142.30	200928.00
16	11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :				
(i)	11.23.5	Udaipur green marble	319.00	sqm	2100.40	670028.00
17	NS/ Based on DSR 11.27 & 11.23.5	Marble stone 18 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete with :				
(i)	(a)	Udaipur green marble	67.00	sqm	2494.70	167145.00
18	NS/ Based on DSR 12.41.2	Providing and laying unplasticised Rigid PVC water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. (a) Single socketed pipes for duct.				
(i)	(a)	110 mm diameter	120.00	metre	319.75	38370.00
19	MR	Providing and fixing colour coated galvalume sheets (colour, size, shape and pitch of corrugation as approved by Engineer-in-charge) roofing 0.47mm total coated thickness (TCT), minimum material yield strength 550 MPa, galvalume AZ-150 (zinc aluminium alloy coating nominal composition : 55% aluminium, 43.5%% zinc & 1.5% silicon mass total of both sides) with regular modified polyster paint and coating of 20-25 micron RMP on exposed surface including primer and 7-10 micron epoxy coating on unexposed surface including primer. The sheet should be supplied in single length as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/ self tapping screws of size (5.5x55mm) with EPDM seal including cutting to size and shape wherever required complete. All screws should be sealed with silicon sealant.	555.00	sqm	876.70	486569.00

Bhuvelkumar
JE (Electrical)

Dalal
SC (Mtce)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
20	MR	Providing and fixing colour coated galvalume sheets (colour, size, shape and pitch of corrugation as approved by Engineer-in-charge) roofing accessories, 0.47mm total coated thickness (TCT), minimum material yield strength 550 MPa, galvalume AZ-150 (zinc aluminium alloy coating nominal composition : 55% aluminium, 43.5%% zinc & 1.5% silicon mass total of both sides) with regular modified polyster paint and coating of 20-25 micron RMP on exposed surface including primer and 7-10 micron epoxy coating on unexposed surface including primer. The sheet shall be fixed using self drilling/ self tapping screws of size (5.5x55mm) with EPDM seal including cutting to size and shape wherever required complete. All screws should be sealed with silicon sealant.				
(i)	(a)	Ridges plain (500 - 600mm)	50.00	metre	660.30	33015.00
21	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :				
(i)	13.7.2	1:4 (1 cement: 4 fine sand)	184.00	sqm	361.30	66479.00
22	13.16	6 mm cement plaster of mix :				
(i)	13.16.1	1:3 (1 cement : 3 fine sand)	520.00	sqm	253.05	131586.00
23	13.18	Neat cement punning.	658.00	sqm	67.80	44612.00
24	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
(i)	13.61.1	Two or more coats on new work	605.00	sqm	131.45	79527.00
25	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.				
(i)	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	27.00	cum	2007.10	54192.00
26	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.	36.00	cum	2928.10	105412.00
27	15.43	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
(i)	15.43.1	Water bound macadam road	104.00	sqm	179.65	18684.00
(ii)	15.43.2	Bituminous road	593.00	sqm	353.65	209714.00
28	15.51	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	10.00	each	791.65	7917.00
29	15.60	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				

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
30	16.9	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.	9876.00	sqm	27.55	272084.00
31	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
(i)	16.30.2	On bituminous surface @ 0.50 Kg / sqm	9309.00	sqm	36.60	340709.00
32	16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete. **Note:** Seal coat items to be operated only with the prior approval of Chief Engineer/ADG concerned.	9309.00	sqm	106.10	987685.00
33	16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.				
(i)	16.55.1 65 mm	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	586.00	cum	7,756.40	4545250.00
34	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
(i)	16.57.1 40 mm	40/50 mm compacted thickness with bitumen of grade VG-30 @5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	372.00	cum	10870.75	4043919.00

Ahmad Kamar.
JE (Electrical)

Dy (Mech)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
35	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	1050.00	sqm	951.00	998550.00
36	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	6.00	cum	8613.55	51681.00
37	MR	Cold milling of asphaltic surface (mastic) from asphaltic/ concrete road surface so as to maintain surface below in shape, slope and undamaged, workable to lay fresh layer of asphaltic material in line, level, and depth as per directions of Engineer-in-charge including disposal of removed material from site for all leads, cleaning of surface and making good to receive new asphaltic work including local repair of damages distress occurred after milling etc. complete.	481.00	cum	1024.05	492568.00
38	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base/ base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	663.00	cum	2803.65	1858820.00
39	16.83	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	1050.00	sqm	108.65	114083.00
40	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
(i)	19.6.3	250 mm dia. R.C.C. pipe	710.00	metre	811.15	575917.00

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
41	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :				
(i)	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10.00	each	5589.45	55895.00
42	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer –in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
(i)	23.1.1.1	300 mm dia.	360.00	metre	592.05	213138.00
43	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer –in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	23.2.1	All types of soil				
(i)	23.2.1.1	300 mm dia.	129.00	metre	690.70	89100.00
44	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer–in-charge.				
(i)	23.3.2	150 mm nominal size dia	276.00	metre	668.50	184506.00
45	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
(i)	23.4.2	150 mm nominal size dia	192.00	metre	681.90	130925.00
46	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	33.00	cum	1302.30	42976.00
47	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	44.00	cum	1309.00	57596.00

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
48	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	33.00	cum	1309.00	43197.00
49	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	32.00	cum	1479.25	47336.00
50	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	400.00	each	1,213.25	485300.00
51	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
(i)	23.14.2	150 mm clamp	4.00	each	1609.25	6437.00
52	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
(i)	23.15.2	150 mm dia	8.00	each	281.75	2254.00
						26871598.00
		Synthetic Atheletic Track items				
53	MR	Removal of existing old Synthetic Athletic track of thickness upto 3mm carefully without demolishing its sub base and stacking it inside the campus within 1 kms. Old track surface has to be removed as per "WAF" (formerly known as IAAF) Guidelines or as per track manufacturer's representative/ directions of Engineer-in-charge.	9876.00	sqm	95.00	938220.00
54	MR	Dismantalling of Existing Track field equipment including dismentaling of socket, concrete base etc. complete as per direction of Engineer - in- charge.				
	a	Shotput circle dia 2.135m				
	b	Discuss circle dia 2.50m				
	c	Hammer circle dia 2.135m				
	d	Pole vault boxes size 1.10m x 0.45 m x 0.30m				
	e	Take off board system size 1.22mx0.45mx0.15m	1.00	per job	200000.00	200000.00
	f	Water jump hurdle with socket size 3.66mx0.25m x0.50m				
	g	Discuss throwing cage with 7 nos socket				
	h	Hammer throwing cage with 10 nos socket				

Bhuwan kumar.
JE (electrical)

DE (Mtce)

Sl.No.	DSR 2021	Description of Items	Qty	Unit	Rate	Amount
55	MR	Preparation of bituminous surface by providing camber, slope, level etc. as per drawing before laying of synthetic track with 4 m straight edge and thread to make proper level by fine bituminous material or deep patch materials (using 8-10mm thick stone aggregate, silica sand and bitumen etc.) as per requirement and specifications of latest "WAF" (formerly known as IAAF) and as per direction of Engineer-in-charge.	1862.00	sqm	292.15	543983.00
56	MR	Providing and fixing of "WAF" (formerly known as IAAF) approved track field original equipment manufacturer from Euorpean/ American/ Australian Region only.				
a	a	Pole-vault boxes with cover	4.00	each	40000.00	160000.00
b	b	Take off board system for long jump and triple jump including wooden board	12.00	set	40000.00	480000.00
c	c	Shot put rings dia-2.135 m	3.00	each	40000.00	120000.00
d	d	Hammer cum Discuss circle dia-2.50 m	2.00	each	40000.00	80000.00
e	e	Water jump socket with hurdle for steeple chase	1.00	set	50000.00	50000.00
f	f	Hammer cum Discuss throwing cage with all socket, pole, door and net	1.00	set	1075000.00	1075000.00
g	g	Discuss throwing cage with all socket, pole and net	1.00	set	725000.00	725000.00
h	h	Stop board for Shot put rings dia- 2.135 m	3.00	set	25000.00	75000.00
i	i	Reducer for hammer cum discuss ring	1.00	set	25000.00	25000.00
j	j	Aluminium Kerbing - std. 400 m track	1.00	set	475000.00	475000.00
57	MR	Providing and laying WAF (formerly known as IAAF) approved Synthetic Athletic track Full PUR system only with full EPDM (without re-cycled rubber) manufacturer from Euorpean/ American/ Australian Region only including line marking on the surfaces all complete as per specification laid down by 'WAF" (formerly known as IAAF) class I certification and as per direction of Enginer-in-charge .				
a	a	Normal stress areas wih a minimum thickness of 15 mm of finished track surface	9082.00	sqm	7000.00	63574000.00
b	b	High stress areas wih a minimum thickness of 20 mm of finished track surface	214.00	sqm	7585.00	1623190.00
c	c	High stress areas wih a minimum thickness of 25 mm of finished track surface	13.00	sqm	8027.00	104351.00
58	MR	Providing and applying of UV protective PU spray coat of "WAF" (formerly known as IAAF) approved product manufacturer of required colour over top layer as per direction of Enginer-in- charge.	9309.00	sqm	572.00	5324748.00
					W	**102445090.00**
		Add difference of GST (@18% in place of 12%) = WX1.0633				108929864.00
		Minus cost Index @ 1.00% {(99-100/100)x100} on except MR items (25682850-1012152 = 24670698x1.0633 =			27496349	-274963.00
		(C.I approved for Chandigarh vide letter No. 23(Cost Index)/ADG(Region-Chandigarh)/EE(P)/3751-H dated 24.11.2021)			**Total (A)**	**108654901.00**

Note :- A/R's for Market Rate items at Sr. No. 53 to 58 are taken from the Preliminary Estimate for SAI works at Sonipat (Haryana), sent to the Client Deptt. From ADG (Region Chandigarh), Chandigarh vide No. 23(86)/ADG(RCH)/EE(P)/868-H dated 23.02.2022.

07/09/2022

Chief Estimator (C)

Annexure-III

Abstract of Cost

Name of work: Replacement of 400M- 8 lanes Synthetic Athletic Track-1 at NS, NIS Patiala (Pb).
SH: Electrical Work

Sl.No.	Description of items	Qty.	Rate	Unit	Amount	Remarks
	SH-I (Electrical Panel and Cable Laying)					
1	Supply & laying of one number PVC insulated and PVC sheathed/ XLPE aluminium conductor power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
a)	4 x 16 sq mm	15.00	604.00	Mtr.	9060.00	MR
a)	3.5 x 35 sq mm	40.00	765.00	Mtr.	30600.00	MR
b)	3.5 x 50 sq mm	200.00	932.00	Mtr.	186400.00	MR
c)	3.5 x 95 sq mm	370.00	1360.00	Mtr.	503200.00	MR
d)	3.5 x 120 sq mm	270.00	1630.00	Mtr.	440100.00	MR
e)	3.5 x 300 sq mm	100.00	3356.00	Mtr.	335600.00	MR
2	Fabrication, Installation, testing & commissioning of Electrical Panel for sports LED Lighting fixtures and for sprinkler system complete etc as required.	1.00	607290.00	Job	607290.00	MR
3	SITC of sport LED lighting fixtures 1.6 kw LED luminaries conforming to international standard on 35 mtr high mast complete etc as required.	86.00	279977.00	Job	24078022.00	MR
4	SITC of 35 m stadium mast alongwith marider unit,raising-lowering accessories of marider unit, single dome LED aviatiion obstruction light and foundation bolt etc complete as required.	6.00	1527136.00	Each	9162816.00	MR
5	Earthing with G.I. earth plate/ pipe of size 600 mm X 600 mm X 6 mm thick & 4.5 long respectively including accessories, providing and fixing 25mm x5 mm G.I. strip in 40 mm dia etc. as required.	10	10000	Set	100000.00	MR
	SH-II (Sprinkler System)					
1	Supply and installation of fully computerized, automatic and single key operation pop-up spinkler system specifically dsigned for ground including all fittings and accessories including earth work in excavation and re-filling (earth work includes 450mm of soil cover over the pipe and width of 300) HDPE pipe dia 150/110mm class pe 100 graede12.5g/cm2. "including carriage of materials within all leads and lifts and other incidental charges **including SITC of softening plant of suitable capacity.**	1.00	4000000.00	Job	4000000.00	MR
2	Supply and installation of 50H.P coupled pump set with electronic controller etc.or equivalent, making connections suitable for T W/ D.C.B/ open well.the job includes screwing and welding of flanges on GI B-class riser pipes, installation of complete fittings and accessories with riser pipes, jointing of electrical cable and other connections layout of the same along with details of product is to be got approved by the Engineer-in-charge.	1.00	250000.00	Job	250000.00	MR
			Total		**39703088.00**	**W**
	Add difference of GST (@18% in place of 12%) = WX1.0633				**42216293.00**	
			Total		**42216293.00**	

Rs. 57,54,960/-

Rs. 61,19,249/-

JE (Electrical)

07/09/2021

Assistant Engineer(E) (P)
O/o SE-Chandigarh

Annexure-IV

ABSTRACT OF COST

Name of work: C/o Underground Sump and Pump Room for Athletic Track-1 at NS, NIS, Patiala (Pb.).

S.No.	Description of item	Qty	Unit	Rate	Amount	Remarks
	BUILDING WORK					
A	**Civil Work:**					
1.1	RCC framed structure (upto six storeys)					1.1
1.1.2	RCC framed structure floor height 3.00mtr.	16.00	sq.mtr.	20685.00	**330960.00**	**'A'** 1.1.2
1.2	Every 0.30 metre or part thereof, deeper foundations over normal depth of 1.20mtr. (on Ground Floor area only)	16.00	sq.mtr.	200.00	3200.00	1.3.4
2	**Services on 'A'**					
2.1	Internal water supply and sanitary instalation	330960.00	%	12.00	39715.00	2.1
3	**RCC WATER TANK**					
3.1	Underground sump	150000.00	litre	20.00	3000000.00	4.5
				Total	**3373875.00**	**W**
	Add difference of GST (@18% in place of 12%) = WX1.0633				3587441.00	
	Minus cost Index @ 1.00% on all PAR Items (C.I approved for Chandigarh vide letter No. 23(Cost Index)/ADG(Region-Chandigarh)/EE(P)/ 3751-H dated 24.11.2021)	3587441.00	%	-1.00	-35874.00	
					3551567.00	

07/09/2022
Chief Estimator (C)
O/o SE-Chandigarh
CPWD, Chandigarh

JE (electrical)

JE (civil)

Annexure – IV A

Relaying of Synthetic Athletic Track (Full PUR, Full EPDM- Class-II) with allied works at SAI NCOE Sonepat.		
S. No.	**Description**	**Amount (Rs.)**
1	Civil Work including Excavation work, PCC, Pump, Precast RCC covers, Renovation of toilets & Sprinkler System etc.	6934638.70
2	Bituminous Surfaces (Sub Base, Base, Binder, Surface Course etc.)	9902988.20
3	Removal of Old Track and dismantling of other items	1523445.20
4	Providing and Laying Synthetic Athletic Track Full PUR system only with Full EPDM as per WAF Specifications and Certification	74226048.93
5	Electrical works (SITC of softening plant & submersible pump etc.)	2772038.61
6	Underground Sump & Pump Room	4352312.00
	Sub-Total (A)	**99711471.63**
	Anticipated Increase @ 3% in the cost during the period from the date of submission of PE	2991344.00
	Anticipated Increase @ 3.75% (3% per annum for the increase in the cost during the period of completion work	3739180.00
	Add @ 1% for Third Party Quality Assurance	997115.00
	Add Contingencies @ 3%	2991344.00
	Add for EPF & ESI @ 4.25% on A	4237737.54
	Sub-Total (B)	**114668192.18**
	Grand Total	**114668192.18**
	SAY (In Rs.)	**11.47 Cr.**

भारत सरकार
GOVERNMENT OF INDIA
केन्द्रीय लोक निर्माण विभाग
CENTRAL PUBLIC WORKS DEPARTMENT

कार्यालय अधीक्षण अभियन्ता– करनाल
हैफेड ऑफिस बिल्डिंग, द्वितीय तल,
एस.सी.ओ.–19–20, सैक्टर–12 (पार्ट–1)
करनाल–132001

Office of Superintending Engineer - Karnal
Hafed Office Building, 2nd Floor,
S.C.O.-19-20, Sector-12 (Part-1)
Karnal-132001
E-Mail: knl-sekcd@cpwd.gov.in

संख्या – 23(SAI-SNP)/अधी–अभि–करनाल/2022/ 988-1E दिनांक : 31/8/22

सेवा में,

Executive Director,
Sports Authority of India,
Northern Regional Centtre,
Sonepat

विषय : **Relaying of Synthetic Athletic Tracks after removing of old existing track i/c Construction of Pump Room, Store, Under Ground Tank, Renovation of Toilet & Providing Tubewell at SAI NCOE, Sonepat Haryana. (Civil & Electrical). (3rd Modified Preliminary Estimate)**

संदर्भ : आपका पत्र संख्या : **SAI/NRC/INFRA WORK/2021-22/196 Dated 09.11.2022 and E-Mail Dated 28.04.2022 & further meetings.**

महोदय,

उपरोक्त कार्य का तृतीय संशोधित प्रारम्भिक अनुमान (दो प्रतियां) जिसकी अनुमानित लागत रूप्ये 17,54,30,300/– मय 3% आकस्मिक व्यय के साथ सक्षम अधिकारी के प्राशासनिक अनुमोदन एवं व्यय स्वीकृति प्रदान किए जाने हेतु प्रेषित किया जाता है। कार्य की स्वीकृति करते समय लेखा शीर्ष (हैड ऑफ एकांउट) का भी उल्लेख करने की कृपा करें।

यह पत्र अधीक्षण अभियन्ता–करनाल के अनुमोदन से जारी किया जाता है ।

संलग्न : अनुमान की दो प्रतियां

सहायक अभियन्ता–करनाल
कार्यालय अधीक्षण अभियन्ता–करनाल
के.लो.नि.वि. करनाल

प्रतिलिपि प्रेषित :-

1. **ADG (RC),** CPWD, Chandigarh for information please.
2. **Director (Infra),** Sports Authority of India, J.L.N Stadium, New Delhi for information please.
3. **कार्यपालक अभियन्ता–करनाल (सिविल),** केन्द्रीय लोक निर्माण विभाग, करनाल को सूचनार्थ।
4. **कार्यपालक अभियन्ता–करनाल (वैद्युत),** केन्द्रीय लोक निर्माण विभाग, करनाल को सूचनार्थ।

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State: Haryana
Branch: B & R

Division: KD
Sub-Division:

NAME OF WORK: **Relaying of Synthetic Athletic Tracks after removing of old existing track i/c Construction of Pump Room, Store, Under Ground Tank, Renovation of Toilet & Providing Tubewell at SAI NCOE, Sonepat Haryana. (Civil & Electrical). (3rd Modified Preliminary Estimate)**

MAJOR HEAD	MINOR HEAD	DETAIL HEAD

This 3rd Modified Preliminary Estimate framed by Er. Devinder Singh, Executive Engineer, Karnal Division & Er. Smt. Savita Ray, Executive Engineer (Elect.) and further processed in the office of Superintending Engineer-Karnal, CPWD, Karnal for the estimated cost of work is Rs.17,54,30,300/- i/c contingencies. Earlier a re-modified Preliminary Estimate amounting to Rs. 21,72,12,400/- was sent vide letter no. 23(86)/AGD/RC/EE(P)/4034-H dated 17.08.2022 may be treated as "Null" & "Void".

REPORT

History:

This 3rd Modified Preliminary Estimate amounting to Rs.17,54,30,300/- i/c contingencies has been framed to cover the probable cost of the above mentioned work for obtaining A/A & E/S by the competent authority. Earlier the PE amounting to Rs. 11,52,02,800/- was submitted to SAI authorities by O/o ADG (RC) vide letter No. 23(86)/ADG(RC)/EE(P)/868-H dated 23.02.2022 in response to the requisition from Deputy Director, NRC, Sonepat vide letter No. SAI/NRC/Infra Work/2021-22/196 Dated 09.11.2021. SAI authority vide E-mail dated 28th April -2022, requested to modify the preliminary estimate with compliance of certain observations suggested by Chief Coach Athletic during his visit to SAI Campus. Hence the modified preliminary estimate incorporating the suggestions of Chief Coach Athletic was submitted vide this office letter even No.3789-H dated 29.07.2022.

The co-ordination meeting held with SAI authority on 01.08.2022 wherein decision were made by the Client to again modify the estimate with certain changes. It was decided that the lux level of the flood lights will be meeting training standards only (400 lux).

After that Minutes of meeting for the meeting held on 13.07.2022 under the chairmanship of DG, SAI with CPWD Officials received vide letter No.01-11024/04/2021-HQ-Infra Division/721 dated 05.08.2022. In the minutes of meeting, it was mentioned that flood lights may not be considered in the scope of work at present.

The matter confirmed again with SAI authority & provision for flood lights with 400 lux average illumination were kept in the estimate. Also some items were modified as per decision taken in the Co-ordination meeting with SAI authority on 01.08.2022. 3rd party quality assurance provision also added in the estimate which was sent vide letter no. 23(86)/AGD/RC/EE(P)/4034-H dated 17.08.2022 amounting to Rs. 21,70,12,400/-.

Now as per the decision taken in the meeting dated 26.08.2022 with SAI Authority, this estimate has been again modified to reduce the cost of with change of some scope of the work, so deleting the inclined RCC track, C/o New Toilet and Control Room. Hence this 3rd modified P.E have been framed. This will supersede earlier PE submitted for this work.

Design & Scope: **The following provisions have been kept in this detailed estimate:-**

Civil Work :-

1. Construction of store room and pump room.
2. Re-laying of synthetic track after removing of old existing track.
3. 1,50,000 litre capacity sump with tubewell has been taken for irrigating of the field.
4. Renovation of 2 Nos. Toilet near to synthetic track.

Electrical Work :-

1. Providing 06 Nos. 35M Stadium mast.
2. Providing LED Sport Light fixture with minimum 150000 Lumens/1.6 kW to attain average illumination of 400 lux.
3. Provision of wiring, laying cable, feeder pillar & other accessories.
4. Provision of Automatic pop up sprinkler system along with 50HP electrical pumps, Controller, piping etc.
5. Provision of 1,50,000 LPD Softening Plant along with all accessories.
6. Provision of 50 HP submersible pump to fill underground tank along with column pipe, start panel, 70 sq.mm 1.1 kV grade LT cable and HDPE Pipe.
7. Renovation of 2 Nos. existing toilet near to synthetic track.

Specifications: Civil Work: CPWD specifications 2019 Vol I & II with upto date correction slips.

Electrical Work: CPWD General Specifications with upto date correction slips.

(i) Part-I Internal - 2005, 2013, 2013 (Amendments)
(ii) Part-IV Sub Station – 2013
(iii) Part V Wet Riser & Sprinkler Systems – 2020
(iv) Part VI Fire Detection and Alarm System – 2018
(v) Part VII D.G. Sets - 2013.

T & P: Shall be arranged by the contractor.

WC Establishment: Shall be met out of contingencies.

Land: Available with client department.

Rate: Based on DSR – 2021, PAR – 2021 & Market Rates.

Method: Through contract after call of tender.

Time: 3 Months for Planning and 15 Months for Execution=18 months (After receipt of A/A & E/S)

Cost: **Rs.17,54,30,300/-**

Other informations:-

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

(ii) CPWD does not bind itself to complete the work within the estimated cost. Necessary revised estimate will be submitted when scope of work is increased/changed or there is deviation in quantities executed.

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

(iv) The CPWD has no funds of its own for investing in the work. The client department should therefore, ensure that adequate funds are available with CPWD for execution of the work. In case the client department fails to provide funds as per requirements, it may be necessary for CPWD to suspend/abandon the work. In such eventuality, the client department shall be solely responsible for all the consequences arising out of such stoppage /abandonment of work i/c claims of contractors for compensation/damages. If additional funds are required, the same will have be provided by client department on the Revised estimates submitted by CPWD.

(v) Funds for making payment of all amount which may be decreed by the Court of Law, Tribunal or by award of an Arbitrator in relation to the work will be made available by the client department promptly irrespective of it not being a party before the Court, Tribunal or Arbitrator. Such payments will be in addition to the payments made to the contractors for execution of work.

(vi) The client department will help CPWD in-

a) Providing site for labour huts for the contractor's labour free of cost.
b) Providing free access to contractor's materials and labour to the site of work.
c) Providing electricity connection for execution of work on payment of usual charges.
d) Sanction and release of load from the concerned electricity board /authority.

(vii) In the event of delay in taking over completed project or completed components of the project independently as per phasing mutually agreed with client without awaiting the completion of the entire project, charges on security, re-finishing, re-commissioning, conservancy charges etc. is to be borne by the client.

(viii) Preliminary estimate shall be property of CPWD and the client shall not entrust the work to other agency and shall not use these drawings and this estimate.

Note:

"The cost and time of the project is liable to revision due to probable escalation in cost of construction apart from reasons such as change in scope, area, design and specification etc. if so desired by the client department at a later date."

"The execution of the works will depend upon the receipt of the funds through authorization or through allocation well in time during the financial year"

"In the event of delay in taking over completed project or completed components of the projects independently as per phasing mutually agreed with client without awaiting the completion of the entire project, charges on security, re-finishing and re-commissioning, conservancy charges etc. shall be borne by the client."

"The preliminary architectural drawings and preliminary estimate shall be property of CPWD and the client shall not entrust the work to other agency and shall not use these drawings and this estimate".

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

Assistant Engineer (Elect.)
O/o SE-Karnal, CPWD, Karnal

31/08/2022

Superintending Engineer-Karnal
CPWD, Karnal

GENERAL ABSTRACT OF COST

Name of Work:	Relaying of Synthetic Athletic Tracks after removing of old existing track i/c Construction of Pump Room, Store, Under Ground Tank, Renovation of Toilet & Providing Tubewell at SAI NCOE, Sonepat Haryana. (3rd Modified Preliminary Estimate)				
S No	Description	Amount			Remarks
		Civil	Elect.	Total	
1	Relaying of Synthetic Athletic Tracks	~~98037759.00~~ 91657959.00	~~49008679.00~~ 2551920.00	~~14,70,46,438.00~~ 94209879.00	As per Annexure 'I' & 'I'(E)
2	Construction of Pump Room & Store Room	862412.00	155928.00	10,18,340.00	As per Annexure 'II' & 'II'(E)
3	Construction of UG Tank	3489900.00		34,89,900.00	As per Annexure 'III'
4	Provision of Tubewell	415632.00		4,15,632.00	As per Annexure 'IV'
5	Renovation of 2 Nos. toilet near to Synthetic Track	513530.00	64191.00	5,77,721.00	As per Annexure 'V'
	TOTAL	~~103319233.00~~	~~49228798.00~~	~~15,25,48,031.00~~	(X) 99711472.00
	Add Contingencies @ 3.00% on (X)	96939433.00	2772039.00	~~45,76,441.00~~	2991344.00
	Add EPF & ESI @ 4.25% on (X)			~~64,83,291.00~~	4237738.00
	Add for Anticipated increase @3 % As per circular issued by SE (TAS), New Delhi vide letter No. 68/SE(TAS)/Cost Index/2020/456H dated 24.11.2020			~~45,76,441.00~~	2991344.00
	Add for anticipated increase @ 3.75% (3% per annum for the increase in the cost during the period of completion work. (As per Circular No. 68/SE(TAS) Cost Index/2020/483-H dated 16.12.2020) on (X)			~~57,20,551.00~~	3739180.00
	Add TPQA @ 1% on (X)			~~15,25,480.00~~	997115.00
	Grand Total			~~17,54,30,235.00~~	114668193.00
	Say Rs.			17,54,30,300.00	114700000.00

-Sd-
Executive Engineer (Civil)
CPWD, Karnal

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

-Sd-
Executive Engineer (Elect.)
CPWD, Karnal

Assistant Engineer (Elect.)
O/o SE-Karnal, CPWD, Karnal

31/08/2022
Superintending Engineer-Karnal
CPWD, Karnal

JC (Infra)

ANNEXURE-I

DETAILED ESTIMATE

Name of Work: Relaying of synthetic athletic tracks after removing of old existing track at SAI NCOE, Sonepat (Haryana).

S.No.	DSR Code 2021	Description	Qty.	Unit	Rate	Amount
1	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :				
1.1	2.1.1	All kinds of soil	116.00	Sqm	107.00	12412.00
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	16.00	Cum	2161.20	34579.00
3	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
3.1	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	38.00	Cum	9375.20	356258.00
4	13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
4.1	13.9.1	12 mm cement plaster	360.00	Sqm	386.55	139158.00
5	15.51	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	6.00	Each	791.65	4750.00
6	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.	360.00	Sqm	45.05	16218.00
7	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	940.00	Cum	347.90	327026.00
8	15.60	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	950.00	Cum	219.35	208383.00
9	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achievethe desired density,				

S.No.	DSR Code 2021	Description	Qty.	Unit	Rate	Amount
10	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
10.1	16.30.1	On W.B.M. @ 0.75 Kg / sqm	626.00	Sqm	45.20	28295.00
10.2	16.30.2	On bituminious surface @ 0.50 Kg/sqm	9225.00	Sqm	36.60	337635.00
11	16.40	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	9225.00	Sqm	79.85	736616.00
12	16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder,transported to site by tippers, laid over a previously prepared surface with paver finisher equiped with electronic sensor to the requiredgrade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specificatons and directions of Engineer-in-Charge.				
12.1	16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	493.00	Cum	7756.40	3823905.00
13	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge				
13.1	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	369.00	Cum	10870.75	4011307.00
14	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat				

S.No.	DSR Code 2021	Description	Qty.	Unit	Rate	Amount
14.1	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	6.00	each	10102.50	60615.00
15	NS	Dismantling of existing track field equipment including dismantling of socket, concrete base etc. complete as per direction of Engineer-in-charge.	1.00	Job	200000.00	200000.00
16	NS	Removal of Existing old Synthetic Athletic Track carefully without demolishing its sub base and stocking it inside the campus within 1kms. Old track surface has been removed As per "WA" Guidelines or as per track manufacturer representative/ engineer instruction.	9225.00	Sqm	95.00	876375.00
17	NS	Providing and placing in position 60 mm thick factory made machine batched & machine mixed Precast RCC Perforated Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including providing 25-50 mm dia perforations @ 100 to 125 mm c/c including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface etc i/c cost of cartage, all leads & lift, handling at site etc. All complete as per direction of Engineer-in-Charge.	240.00	Sqm	4000.00	960000.00
18	NS	Providing and fixing of "WA" approved track field equipment as per approved by Engineer-in-Charge of European, Australian or American etc.				
18.1	(i)	Pole-vault boxes with cover	4.00	Each	40000.00	160000.00
18.2	(ii)	Take off board system for long jump and triple jump including wooden board	12.00	Set	40000.00	480000.00
18.3	(iii)	Shot put rings dia- 2.135m	3.00	Each	40000.00	120000.00
18.4	(iv)	Hammer cum Discuss circle dia-2.50m	1.00	Each	40000.00	40000.00
18.5	(v)	Water jump Socket with hurdle for steeple chase	1.00	Set	50000.00	50000.00
18.6	(vi)	Hammer cum discuss throwing cage with all socket, pole, door and net	1.00	Set	1075000.00	1075000.00
18.7	(vii)	Stop board for Shot put rings dia- 2.135m	3.00	Each	25000.00	75000.00
18.8	(viii)	Reducer for hammer cum discuss ring	1.00	Each	25000.00	25000.00
18.9	(ix)	Aluminum kerbing- std.400m track	1.00	Set	475000.00	475000.00
19	NS	Supply and installation of fully computerized, automatic and single key operation pop-up spinkler system specifically dsigned for synthetic sports surfaces including all fittings and accessories including earth work in excavation and re-filling (earth work includes 450mm of soil cover over the pipe and width of 300) HDPE pipe dia 150/110mm class pe 100 graede12.5g/cm2. "including carriage of materials within all leads and lifts and other incidental charges.	1.00	Job	2650000.00	2650000.00
20	NS	Supplying and instllation of 50H.P coupled pumping set with electronic controller etc.or equivalent ,making connections suitable for T W/D.C.B/ open well.the job includes screwing and welding of flanges on GI B-class riser pipes, installation of complete fittings and accessories with riser pipes,jointing of electrical cable and other connections .layout of the same along with details of product is to be got approved by the engineer-				

S.No.	DSR Code 2021	Description	Qty.	Unit	Rate	Amount
21	NS	Providing and laying "WA" Approved Synthetic Athletics Track FULL PUR system only with full EPDM (without re-cycled rubber) 15mm thick layer including line marking on the surfaces all complete as per specification laid down by "WA" class II certification and as per direction of engineer in charge.				
21.1	(i)	Normal Stress Areas with a minimum thickness of 15 mm of finished track surface	9225.00	Sqm	7000.00	64575000.00
21.2	(ii)	High Stress Areas with a minimum thickness of 20mm of finished track surface	341.00	Sqm	7250.00	2472250.00
21.3	(iii)	High Stress Areas with a minimum thickness of 25 mm of finished track surface	28.00	Sqm	7500.00	210000.00
22	MR	Construction of Steeplechase water jump pit inside North D portion as per WA drawing and as directed by Engineer-in-Charge.	1.00	Per Job	50000.00	50000.00
23	MR	Supplly & Instalations of high quality megnetic/timing gates for high performance /intelligent training of athletes to measure the following key perameters Running times , Interval times , Distnce , speed step frequency step Number, Step length Jump performance , Tapping Performance Timming Gate on the inner 400 m lane at the equal interval of 50 m each 8 nos Timing GATes on the 100 m traight lane at the interval of 0m , 5 m ,10 m ,20 m 60 m and 100 m (12 Nos) Sensor including Belt (one) Softfware Smartrack FULL version (One). The design of the facility should be submitted for approval before supply	0 ~~1.00~~	Per Job	0.00 ~~6000000.00~~	0.00 ~~6000000.00~~
		Total			8521671.00	~~91216471.00~~
		Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022			539428.00	~~5774003.00~~
		Add Cost Index @ 10% on DSR items i.e. Rs. 10472846.00				1047285.00
		Total			91657959.00	~~98037759.00~~

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

-Sd-
Executive Engineer (Civil)
CPWD, Karnal

ANNEXURE-II

PRELIMINARY ESTIMATE

Name of Work:- Construction of Store & Pump Room at SAI NCOE Sonepat (Haryana).

S.No.	PAR 2021	Description of Item	Qty	Rate	Unit	Amount
1	1	**BUILDING COST**				
1.1	1.1	RCC FRAMED STRUCTURE (Upto six Storeys)				
1.1.1	1.1.2	Floor ht. 3.00 m. (Hostel/ qtrs.) For Pump Room	16.00	20685.00	Sqm	330960.00
1.1.2	1.1.2	Floor ht. 3.00 m. (Hostel/ qtrs.) For Store Room	16.00	20685.00	Sqm	330960.00
		TOTAL BUILDING COST				**661920.00**
2	2	**SERVICES**				
2.1	2.1	Internal water supply & sanitary installations (Hostels)	661920.00	12.00%	B. Cost	79430.00
Grand Total						**741350.00**
Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022						46927.00
Add Cost Index @ 10% on PAR items i.e. Rs. 741350.00						74135.00
Total						**862412.00**

-Sd-
Executive Engineer (Civil)
CPWD, Karnal

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

ANNEXURE-III

PRELIMINARY ESTIMATE

Name of Work:- Construction of Under Ground Tank at SAI NCOE, Sonepat (Haryana).

S. No.	PAR 2021	Description	Qty.	Unit	Rate	Amount
1	4	RCC WATER TANK				
1.1	4.5	Underground sump	150000.00	Per Litre	20.00	3000000.00
		Total Rs.				**3000000.00**
		Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022				189900.00
		Add Cost Index @ 10% on PAR items i.e. Rs. 3000000.00				300000.00
		Total				**3489900.00**

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

-Sd-
Executive Engineer (Civil)
CPWD, Karnal

ANNEXURE-IV

DETAILED ESTIMATE

Name of Work:- Providing of Tubewell at SAI NCOE, Sonepat (Haryana).

S.No.	DSR Code 2021	Description	Qty.	Unit	Rate	Amount
1	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
1.1	23.1.1	All kinds of soil				
1.1.1	23.1.1.3	400 mm dia	90.00	Mtr	828.85	74597.00
2	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer - in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
2.1	23.2.1	All kinds of soil				
2.1.1	23.2.1.3	400 mm dia	60.00	Mtr	1036.10	62166.00
3	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
3.1	23.3.3	200 mm nominal size dia	90.00	Mtr	971.30	87417.00
4	24.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
4.1	24.4.3	200 mm nominal size dia	40.00	Mtr	1099.25	43970.00
5	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading& sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	14.00	Cum	1479.25	20710.00

S.No.	DSR Code 2021	Description	Qty.	Unit	Rate	Amount
6	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	72.00	Hour	916.80	66010.00
7	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
7.1	23.13.3	200 mm dia	1.00	Each	280.95	281.00
8	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
8.1	23.14.3	200 mm dia	1.00	Each	1827.00	1827.00
9	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
9.1	23.15.3	200 mm dia	1.00	Each	308.55	309.00
		Total				**357287.00**
		Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022				22616.00
		Add Cost Index @ 10% on DSR items i.e. Rs. 357287.00				35729.00
		Total				**415632.00**

-Sd-
Executive Engineer (Civil)
CPWD, Karnal

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

Annexure – V

Name of Work:- Renovation of 2 Nos. Toilet Near to Synthetic Track at SAI NCOE, Bahalgarh, Sonepat

S.No.	DSR 2021	Description	Qty.	Unit	Rate	Amount
- 3	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 :				
	4.1.3	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).	2.00	cum	7365.15	14730.00
4	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, ifnishing and reinforcement- All work up to plinth level :				
	5.1.2	1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	1.00	cum	8364.20	8364.00
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
	5.9.4	Shelves (Cast in situ)	4.00	Sqm	766.55	3066.00
	5.9.16	Edges of slabs and breaks in floors and walls				
	5.9.16.1	Under 20 cm wide	6.00	metre	181.90	1091.00
6	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	50.00	Kg	89.65	4483.00
9	6.13	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				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	31.00	Sqm	1018.05	31560.00
10	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	31.00	Sqm	86.45	2680.00
11	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.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	0.60	Sqm	4679.35	2808.00
	8.2.2.2	Area of slab over 0.50 sqm	2.00	Sqm	4425.35	8851.00
12	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.				
	8.3.2	Granite work	8.00	Mtr	418.85	3351.00
13	8.5	Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	6.00	Each	808.15	4849.00

3	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 :				
14	8.31	Providing and fixing Ist 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.	65.00	Sqm	1063.45	69124.00
15	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.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4.50	Sqm	3086.10	13887.00
16	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 :				
	9.96.1	300x16 mm	6.00	Each	260.30	1562.00
17	9.97	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 :				
	9.97.1	300x10 mm	10.00	Each	117.65	1177.00
18	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 :				
	9.100.1	125 mm	12.00	Each	60.05	721.00
19	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	20.00	Mtr	702.60	14052.00
20	9.122	Providing and fixing to existing door frames.				
	9.122.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material	6.00	Sqm	3963.70	23782.00

3	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 :				
27	11.41	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm includinggrouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	21.00	Sqm	1311.05	27532.00
28	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
	12.21.1	In 75x75 mm deep chase	19.00	Mtr	260.20	4944.00
29	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2.00	Each	266.60	533.00
30	12.41	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, (i) Single socketed pipes.				
	12.41.2	110 mm diameter	7.00	Mtr	319.75	2238.00
31	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.				
	12.42.1	Coupler				
	12.42.1.2	110 mm	2.00	Each	119.95	240.00
	12.42.3	Single tee with door				
	12.42.3.2	110x110x110 mm	2.00	Each	205.45	411.00
	12.42.5	Bend 87.5°				
	12.42.5.2	110 mm bend	2.00	Each	132.00	264.00
	12.42.6	Shoe (Plain)				
	12.42.6.2	110 mm Shoe	2.00	Each	115.95	232.00
32	12.43	Providing and fixing unplasticised PVC pipe clips of approved design to unplasticised PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S.screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1cement : 4 coarse sand) and making good the wall etc. complete.				
	12.43.2	110 mm	4.00	Each	309.50	1238.00
33	13.4	12 mm cement plaster of mix :				
	13.4.2	1:6 (1 cement: 6 coarse sand)	10.00	sqm	294.35	2944.00
34	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	21.00	sqm	253.05	5314.00
35	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	21.00	sqm	92.75	1948.00
36	13.43	Applying one coat of water thinnable cement primer of				

3	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 :				
	13.43.1	Water thinnable cement primer	21.00	sqm	64.45	1353.00
37	13.61	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	10.00	sqm	131.45	1315.00
38	13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :				
	13.111.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	53.00	sqm	74.75	3962.00
40	14.81	Cutting holes of required size in brick masonry wall for fixing of exhaustfan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	5.00	Each	243.10	1216.00
41	14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	3.00	Each	110.70	332.00
42	14.84	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work- Exposed on wall	20.00	Mtr	2.85	57.00
43	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
	15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	2.00	Cum	2007.10	4014.00
44	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.	0.50	Cum	2928.10	1464.00
45	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
	15.7.4	In cement mortar	2.00	cum	1698.45	3397.00
46	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	15.12.1	Of area 3 sq. metres and below	3.00	Each	302.70	908.00
47	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	15.23.1	For thickness of tiles 10 mm to 25 mm	21.00	Sqm	60.50	1271.00
48	15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	2.00	Cum	753.75	1508.00
49	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.	10.00	Sqm	45.05	451.00

3	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 :				
53	17.2	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 :				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	3.00	Each	5540.55	16622.00
54	17.4	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 cistern 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 :				
	17.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	2.00	Each	8115.55	16231.00
55	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:				
	17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	4.00	Each	2965.60	11862.00
56	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 Eureopean type W.C. of quality and make as approved by Engineer - in - charge.	4.00	Each	299.35	1197.00
57	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	9.00	Each	886.25	7976.00
58	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.1	Semi rigid pipe				
	17.28.1.1	32 mm dia	4.00	Each	90.95	364.00
59	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	17.32.4	Rectangular shape 1500x450 mm	2.00	Each	1817.20	3634.00
60	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
	17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	24.00	metre	1061.25	25470.00
61	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
	17.38.1	100 mm dia				
	17.38.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	8.00	each	550.80	4406.00
62	17.39	Providing and fixing plain bend of required degree.				
	17.39.1	100 mm dia				
	17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated				

3	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 :				
	17.40.1.2	Sand cast iron S&S as per IS - 3989	2.00	each	439.75	880.00
64	17.44	Providing and fixing single equal plain junction of required degree :				
	17.44.1	100x100x100 mm				
	17.44.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	4.00	each	573.50	2294.00
65	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	17.60.1	100 mm inlet and 100 mm outlet				
	17.60.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	8.00	each	760.85	6087.00
66	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	4.00	each	146.30	585.00
67	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	4.00	each	204.70	819.00
68	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	2.00	each	573.60	1147.00
69	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
	18.7.4	32 mm nominal dia Pipes	4.00	Mtr	500.95	2004.00
70	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
	18.8.1	15 mm nominal outer dia Pipes	25.00	Mtr	441.15	11029.00
	18.8.2	20 mm nominal outer dia Pipes	20.00	Mtr	513.75	10275.00
72	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
	18.13.2	50 to 80 mm nominal bore	1.00	each	1513.70	1514.00
73	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	18.17.4	50 mm nominal bore	1.00	each	878.25	878.00
74	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	18.18.3	25 mm nominal bore	1.00	each	399.15	399.00
75	18.21	Providing and fixing uplasticised PVC connection pipe with				

3	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 :				
	18.21.1.1	15 mm nominal bore	10.00	Each	74.80	748.00
~~77~~	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
	18.46.6	50 mm nominal bore	3.00	each	176.90	531.00
78	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	500.00	per litre	9.70	4850.00
79	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
	18.49.1	15 mm nominal bore	4.00	Each	434.20	1737.00
80	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
	19.1.1	100 mm diameter	9.00	metre	375.75	3382.00
	19.1.2	150 mm diameter	9.00	metre	591.40	5323.00
81	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
	19.2.1	100 mm diameter S.W. pipe	9.00	metre	895.50	8060.00
	19.2.2	150 mm diameter S.W. pipe	9.00	metre	1095.15	9856.00
83	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
	19.21.1	For pipes 100 to 250 mm diameter	2.00	each	683.70	1367.00
		Total				**441443.00**
Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022						27943.00
Add Cost Index @ 10% on DSR items i.e. Rs.			441443.00			44144.00
		Total				**513530.00**

-Sd-
Executive Engineer (Civil)
CPWD, Karnal

Assistant Engineer (Civil)
O/o SE-Karnal, CPWD, Karnal

Annexure-I (E)

REVISED PRELIMINARY ESTIMATE

Name of Work: Relaying of synthetic athletic tracks after removing of old existing track at SAI NCOE, Sonepat

Sl No	Description of Items	Quantity	Rate	Unit	Amount	Remarks
1	Supply Installation, Testing & Commissioning of 35M Stadium mast complete etc as required i/c foundations.	0.00 ~~6.00~~	2058920.00	Nos.	0.00 ~~12353520~~	MR
2	Providing LED Sport Light fixture with minimum 150000 Lumens/1.6 kW to attain average illumination of 400 lux on ground.	0 ~~86.00~~	339972.00	Nos.	0.00 ~~29237592~~	MR
3	Supplying & fixing of feeder pillars i/c laying of cables earthing etc from the existing sub-station to make suitable arrangments for power supply etc.	0 ~~1.00~~	2100000.00	Job	0.00 ~~2100000~~	MR
4	Supply Installation, Testing & Commissioning of 1500000 LPD Softening Plant alongwith all accessories etc as required.	1.00	2000000.00	Job	2000000.00	MR
5	Supply Installation, Testing & Commissioning of 50 HP submersible pump to fill underground tank alongwith column pipe, started panel, 70 sq.mm 1.1 kV grade LT cable and HDPE Pipe etc as required.	1.00	400000.00	Job	400000.00	MR
				Total	**~~46091112.00~~** ~~2400000.00~~	
	Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022				**~~2917567.00~~** 151920.00	
	Total				**~~49008679.00~~** 2551920.00	

-Sd-
Executive Engineer (Elect.)
CPWD, Karnal

Assistant Engineer (Elect.)
O/o SE-Karnal, CPWD, Karnal

ANNEXURE-'II' (E)

REVISED PRELIMINARY ESTIMATE

Name of Work:- Construction of Store & Pump Room at SAI NCOE Sonepat (Haryana).

S.No.	Description of Item	Qty	Rate	Unit	Amount	Remarks
1	External service connections and local body approval charges shall be as hereunder or as estimates given by the local body whichever is higher.					PAR
1.1	Internal Electrical Installations	661920.00	12.50%	100 B.cost	82740.00	2.3
1.2	Electrical External service connections	661920.00	3.75%	100 B.cost	24822.00	2.2.1
2.0	EXTRA FOR :-					
2.1	Power wiring and plugs	661920.00	4.00%	100 B.cost	26477.00	2.4.1
	Grand Total				134039.00	
Add GST @6.33% (18% in place of 12% factor) as per OM NO.SE/TAS/GST/20 dated 10.08.2022					8485.00	
Add Cost Index @ 10% on DSR/PAR items i.e. Rs.					13404.00	
TOTAL					155928.00	

-Sd-
Executive Engineer (Elect.)
CPWD, Karnal

Assistant Engineer (Elect.)
O/o SE-Karnal, CPWD, Karnal

Annexure-V A

Cost Comparison of MP Hall at SAI NCOE Bhopal

S. No.	Description	NBCC Old Estimate (In Lakh)	CPWD Estimate (In Lakh)	Remarks
	Area (In Sqm.)	3234	3132	
Civil Works				
1.	Civil Work (AnnexBuilding, Judo Hall and Pump Room)	676.42	847.50	CPWD prepared the estimate as per item no. of 1.1.1, 1.1.2, 1.3.2, 1.3.4 of latest PAR 2021 and NBCC prepared as per DSR 2018.
2.	Services (Water supply, Sanitary Installation, External Connections etc.)	36.32	49.00	CPWD prepared the estimate as per item no. 2.1, 2.2.2, 2.2.3 of latest PAR 2021and NBCC prepared as per DSR 2018.
3.	OHT, Horticulture Work, Underground Sump etc.	0.00	35.00	NBCC not taken these items and CPWD prepared the estimate as per item no. 4.1, 4.5, 5.9 of latest PAR 2021
4.	Development of Site	1.85	49.00	Development component of Rs. 33.21 Lakh (@ 4.50% of building cost i.e Rs. 7.38 Cr.) has been considered. Rs. 15.79 Lakh has been considered for Septic Tank, Tube well and Supply & filling of moorum.
	(A)Total Civil Works (Sl. 1 to 4)	**714.59**	**980.50**	
Electrical Works				
1.	External Services Connection	21.00	27.68	CPWD prepared the estimate as per item no. of 2.2.1 of latest PAR 2021 and NBCC NBCC prepared as per DSR 2018.
2.	Internal Electrical Installation including Power wiring, Lighting conductor, Telephone conduit, LAN conduit etc.	25.38	127.25	Rs. 92.25 Lakh (@ 12.50% of building cost i.e. Rs. 7.38 Cr.) has been considered by CPWD for internal electrical installation as per item no. 2.3 of PAR 2021 Rs. 29.52 Lakh (@ 4% of building cost i.e. Rs. 7.38 Cr.)has been considered for power wiring as per item no. 2.4.1 of PAR 2021 Rs. 5.44 Lakh have been considered for the lighting conductor,

				telephone conduit & LAN conduit as per item no. 2.4.2, 2.4.3 of PAR 2021.
3.	SITC of Lift	0.00	18.00	CPWD prepared the estimate as per item no. 3.1.3 of PAR 2021 and NBCC has not taken this item in the estimate.
4.	CCTV, LAN and EPABX work	0.00	28.56	CPWD prepared the estimate as per item no. 6.10.1, 6.16.1, 6.17.1 of PAR 2021 and NBCC has not taken this item in the estimate.
5.	Sports Lighting, Lighting Automation including occupancy sensors & Street Lighting including Signages	0.00	42.37	CPWD prepared the estimate as per item no.6.14.1 of PAR 2021 &Market Rates and NBCC has not taken this item in the estimate.
6.	Fire Fighting Works	0.00	39.15	CPWD prepared the estimate as per item no. 1.5.1 of PAR 2021 & Market Rates and NBCC has not taken this item in the estimate.
7.	Air Conditioning (VRV/VRF System)	0.00	259.60	CPWD prepared the estimate as per item no. 6.6.1of PAR 2021 & Market Rates and NBCC has not taken this item in the estimate.
8.	Pump Set & Water Coolers	0.00	4.85	CPWD prepared the estimate as market rates and NBCC has not taken this item in the estimate.
	(B)Total Electrical Works (Sl. 1 to 8)	**46.38**	**547.46**	
	Total C= (A+B)	**760.97**	**1527.96**	
	Add Contingency @ 3.00 %	22.82	45.84	
	Total	783.80	-	
	Add for PMC Fee NBCC @ 4.35 %	34.09	-	
	Add GST on PMC @ 18 %	6.13	-	
	Grand Total	**824.02**	-	
	Add ESIC @ 1.125 % on C	-	17.19	
	Add for EPF @ 3.125 % on C	-	47.75	
	Grand Total	-	**1638.74**	
	SAY	**8.24 Cr.**	**16.38 Cr.**	

By Email

भारत सरकार
कार्यालय अपर महानिदेशक (क्षेत्र भोपाल)
केन्द्रीय लोक निर्माण विभाग
भूतल, निर्माण सदन, 52–ए, अरेरा हिल्स, भोपाल – 462011 (म.प्र.)
दूरभाष 0755-2551636, 2988393 फैक्स 0755-2550951 ई–मैल : dirwr2cpwd-mp@nic.in

सं. 23(27)/अमनि(क्षेत्र भोपाल)/542 हि. भोपाल, दिनांक: 15/03/2022

प्रति,

The Director, SAI,
Udhav Das Mehta (Bhaiji),
Central Regional Centre,
Sports Complex, P.O. Suraj Nagar,
Gram Gora, Bishan Khedi,
Bhopal (MP) – 462044
ई–मेल: rdsaibho-mp@gov.in

विषय : **Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)**

संदर्भ: आपके कार्यालय का पत्र क्रमांक: 34/SAI/RDCC/infra/CPWD/2021 Dated 30/09/2021

कृपया इस पत्र के साथ उपरोक्त विषयांकित प्रारंभिक प्राक्कलन रू. **16,38,74,200/-** मय कन्टेन्जेन्सी, की दो प्रतियॉ आवश्यक कार्यवाही हेतु संलग्न कर आपकी ओर प्रेषित है ।

आपसे अनुरोध है कि उपरोक्त कार्य का प्रशासनिक अनुमोदन एवं व्यय स्वीकृति प्रदान करें तथा स्वीकृत प्रारंभिक प्राक्कलन की एक प्रतिहस्ताक्षरित प्रति इस कार्यालय को संदर्भ एवं अभिलेख हेतु प्रेषित करें ।

संलग्न : **P.E. No. 03/ADG(RBH)/2021-22** (दो प्रतियो में)

15/03/2022
कार्यपालक अभियंता(सिविल)
कार्यालय अपर महानिदेशक (क्षेत्र भोपाल)
के.लो.नि.वि., भोपाल।

प्रतिलिपि :–

1) अधीक्षण अभियंता–भोपाल, केलोनिवि, भोपाल।
2) कार्यपालक अभियंता–भोपाल–3, केलोनिवि, भोपाल।
3) कार्यपालक अभियंता(वै.)–भोपाल, के.लो.नि.वि., भोपाल।

} उपरोक्तानुसार एक नग प्रारंभिक प्राक्कलन।

कार्यपालक अभियंता(सिविल)

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GOVERNMENT OF INDIA
OFFICE OF THE ADDITIONAL DIRECTOR GENERAL
(REGION BHOPAL)
CENTRAL P.W.D., BHOPAL

PRELIMINARY ESTIMATE

NAME OF WORK:- Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)

AMOUNT :- Rs. **16,38,74,200**/- including contingencies

P.E. No. :- 03/ADG(RBH)/2021-2022

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GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State :- M.P.

Division :- EE- Bhopal-III

Branch:- B & R

Preliminary Estimate No:- **03/ADG(RBH)/2021-22.**

Name of work : **Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)**

Major Head	Minor Head	Detailed Head
8443-Deposit		

This composite Preliminary Estimate has been prepared by Er. Amirullah Ansari, Executive Engineer (Bhopal)–III, CPWD, Bhopal, Er. Akhilesh Mishra, Executive Engineer(E)-Bhopal-II, CPWD, Bhopal and Er. Jayant Kumar Gupta, Superintending Engineer-Bhopal further process by Er. S.K. Basedia, Executive Engineer(C) & Er. Mohammad Sakir, Assistant Engineer(E) and Er. R.P. Singh, Superintending Engineer(P)(C), O/o ADG, Region Bhopal, CPWD, Bhopal for the probable cost of **Rs. 16,38,74,200/-** (Rupees Sixteen Crore Thirty Eight Lacs Seventy Four Thousand Two Hundred) only including 3% contingencies.

REPORT

History:- This composite Preliminary Estimate amounting to Rs. **16,38,74,200**/- i/c 3% contingencies has been framed to cover the probable cost of above mentioned work and to accord A/A & E/S by competent authority.

Requisition for the work was received from client department vide letter No. 34/SAI/RDCC/Infra/cpwd/2021 Dated 30.09.2021. Approved Preliminary Architectural drawings prepared by SA-1, CPWD, Bhopal were approved by client Sports Authority of India, Bhopal vide letter No. 34/SAI/RDCC/Infra/cpwd/2021 dated 21-01-2022. Accordingly estimate has been prepared.

This is also stated that the cost and time of the project is liable to revision due to probable escalation in cost of construction apart from reasons such as change in scope, area, design and specifications etc. if so desired by the client at a later date. The execution of the works will depend upon the receipt of the funds through deposit or through regular allocation well in time during the financial years.

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In the event of delay in taking over completed Project or completed components of the Project independently as per phasing mutually agreed with client without awaiting the completion of the entire project, charges on security, re-finishing and re-commissioning, conservancy charges etc. is borne by the client.

Details terms and conditions for execution of the work is enclosed at Annexure:

i) MoU – Annexure-I

ii) Specification - Annexure-II

iii) Green Building Parameter - Annexure III

Design & scope: -

This preliminary estimate have been prepared based on following preliminary architectural drawings duly approved by the Client department vide their letter no 34/SAI/RDCC/Infra/cpwd/2021 dated 21-01-2022:-

S.No.	Name of drawings	Drawing No.
1	Part Layout Plan	SA(BPL)/12350/403-04/01
2	Ground Floor Plan	SA(BPL)/12351/403-04/02
3	First Floor Plan	SA(BPL)/12352/403-04/03
4	Terrace Floor Plan	SA(BPL)/12353/403-04/04
5	Front Elevation & Section	SA(BPL)/12354/403-04/05

1. Building Portion :-

Following provision has been made in this Estimate RCC framed earthquake resistant structure having plinth area 1407.49 sqm for Annexe Building, Judo Hall area 1652.56 sqm and Pump room area is 72.00 sqm

Plinth Area:-

Calculation sheet attached – Annexure-IV

2. **Site Development and Bulk Services** :-

A. Civil work

1. Cost of Development includes the following provisions:-
   a) Leveling.
   b) Internal roads & paths.
      (i) Internal road with WBM and bituminous top.
      (ii) Internal road with WMM and bituminous top.
      (iii)Cement concrete pavement with vacuum dewatered concrete.
      (iv)Footpath with PCC base, 60 mm thick paver blocks and kerb stone edging.
   c) External sewerage.

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d) Filtered water supply.
   (i) Distribution lines upto 100 mm dia.
   (ii) Peripheral grid 150 mm to 300 mm dia pipes.
   (iii)Unfiltered water supply distribution lines.
e) Strom water drains.
f) Rain water harvesting (RWH).
g) Trenches for services.

2. Internal water supply and sanitary installation.
3. External Service Connection for Civil work.
4. Overhead Tank without independent staging 15,000 litre capacity.
5. Underground sump of 100000 litre capacity.
6. Local Body Approval charges has been considered in this estimate.
7. Pump room – 1 No.
8. Septic Tank – 1 No.
9. Tube well 1 No.
10. Supplying & filling moorum/ kopra.

B. <u>Electrical work:-</u>

Following provisions have been taken for E & M works ;

1. Electrical Installation :- Light , fan ,power wiring with standard size copper wire and modular type
   switch & sockets has been taken. Lightning conductor is also taken.
2. 13 passengers (G+1) Lifts- 1 No. has been taken.
3. CCTV System is taken for entire building at strategical locations/suitable places.
4. Occupancy sensor based lighting automation has been considered for energy conservation.
5. Complete LAN system with racks, switches and cabeling.
6. IP based EPABX System with cabeling.
7. LED street / compound Light for approach road & compound has been taken.
8. Emergency Light & Illuminated signage.
9. Emergency Lights & illuminated type signage are taken for corridor & other common areas.
10. Fire fighting with wet riser and first aid hose reel are taken.
11. "Manually operated electronic fire alarm system" with talk- back and public address system has
    been taken.
12. Automatic fire alarm system is also taken.
13. VRV/VRF type Air conditioning for JUDO HALL, HYDROTHEREPY ROOM MALE, MASSAGE ROOM MALE, HYDROTHEREPY ROOM FEMALE, MASSAGE ROOM FEMALE, AV/TC, CHIF COACH, EQUIPMENT ROOM, FIRST AID ROOM, GYM AREA, ANTRHO, PHYSIO-1, PHYSIO-2, PHYSIO-3,PHYSIO-4, PHYSIO-5, JUICE CENTER has been considered. AC Load is worked out as 472 HP.
14. Provision of suitable capacity submersible pump for tube well – 1 No. and submersible Pump for sump well -2 Nos. (One as stand by) along with this pipes and panels etc.has been taken.
15. Provision of storage type 80/60 Ltrs. Capacity water cooler-2 Nos. for each floor has been taken.

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Note :- As per discussion held with infra in charge SAI Bhopal, the provisions for sub station and DG Set have not been taken in this estimate, as the Load of building shall be cater from their existing infra structure.

C. Horticulture work:

1. Horticulture operations including 300mm earth filling, grassing, tree plantations/ shrubs and potted plants etc.

Specification : - The Work shall be carried out as per CPWD specifications 2019 Vol. I & II with up to date correction slips.
CPWD General Specification for Electrical Works:-
Part-I (Internal) – 2013
Part-III (Lift & Escalators) – 2003
Part-V (Wet Riser & Sprinker System) – 2020
Part-VI (Fire Detector & Alarm System) – 2018
Part-VII (DG Sets) - 2013

Rates :- Approved Cost Index for Bhopal as on 01/10/2021 is 100.00 on PAR 2021.

Cost :- **Rs. 16,38,74,200/-** including 3% Contingencies. **Validity of P.E. – 1(one) Year.**

W.C. Estt. :- Shall be met out of contingencies

T&P :- Shall be arranged by the contractor.

Method :- By Contract after call of tender

Land :- Available with the client department.

TIME :- (i) For Planning, call of tenders and award of work after receipt of A/A & E/S and Deposit of funds - 3 month
(ii) For Execution including rainy season - 12 months
Total - 15 months

14/03/2022
Assistant Engineer(C)
RBH, CPWD, Bhopal

14/03/2022
Executive Engineer(C)
RBH, CPWD, Bhopal

14/3/2022
Assistant Engineer(E)
RBH, CPWD, Bhopal

14/03/2022
Superintending Engineer-Bhopal
CPWD, Bhopal

14/03/2022
Superintending Engineer(C)(P)
RBH, CPWD, Bhopal

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Annexure 'II'

SPECIFICATIONS FOR ANNEXE BUILDING & JUDO HALL

Name of work :- Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)		
Item No.	**Description**	**SPECIFICATION**
1	2	3
1.0	**FOUNDATION**	As per structural design based on soil investigation.(Primarily with RCC footings, columns, raft etc.)
1.1	For RCC framed structure	
2.0	**SUPER STRUCTURE**	
2.1	For RCC framed structure	R.C.C. framed construction having filler walls with fly ash bricks/burnt clay FPS bricks/ aerated cement concrete (ACC) blocks/ autoclaved aerated cement(AAC) blocks.
2.2	Inter partitions:- Office/ College/ Hospital.	Aerated cement concrete (ACC) blocks/ Light weight autoclaved aerated concrete (AAC) blocks/ Gypsum blocks/ Non asbestos double skin cement boards/ Fly ash bricks.
2.3	Sunken Floor in Lavatory Blocks for Floor Traps/ W.C. with four course waterproofing treatment	Sunk recess in RCC floor of required size and depth may be provided for floor traps, W.C. traps.
3.0	**DOORS & WINDOWS**	
3.1	Frames :	
3.1.1	Door frames:- Office/ College/ Hospital	Door frames of 2nd class Indian teakwood or equivalent in officer's room. Anodized / Powder coated / Polyester powder coated aluminium extruded tubular sections/ extruded hollow mild steel pipes (minimum 2 mm thickness)/ uPVC extruded frame sections/WPC of density between 750 to 1000 kg per cum.
3.1.2	Window frame:- Office/ College/ Hospital	uPVC extruded sections of window frame / Aluminium extruded tubular sections /WPC of density between 750 to 1000 kg per cum.
3.2	Door Window Shutters	
3.2.1	Door Shutters:- Office/ College/ Hospital	Paneled type in 2nd class teak wood or flush door with teak veneered ply/ commercial ply or Anodized/ powder coated/ Polyester powder coated Aluminium shutters with toughened glass glazing/ panelling wherever required as per CPWD Specifications / as per design & drawing.
3.2.3	Frame and shutters in wet area	PVC / FRP/WPC door frames & shutters in wet areas.
3.3	Windows Shutters:- Office/ College/Hospital	Factory made colour Anodised / Powder coated / polyester powder coated Z-section aluminium shutters / Standard uPVC/WPC section for windows glazed with glazing of float/ toughened glass and with / without reflective cating/ high performance coating or double glazed unit as per design & requirement.
3.4	Fittings	Anodised aluminium/ Stainless steel SS-304 grade.
3.5	Fire check door	As per fire safety specifications.
4.0	**FLOORING**	
4.1	Main Entrance hall:- Office/ College/Hospital	18mm thick Pre polished granite flooring.
4.2	Corridors:-Office/ College/ Hospital	Matt finished vitrified tiles / Granite flooring.

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4.3	Rooms:-Office/ College/ Hospital	Granite tiles / Vitrified tiles/ engineered wood flooring (in officers chambers)
4.4	Lavatory Blocks :- Office/ College/Hospital	18mm thick Granite flooring
4.5	Judo Hall & Pump room	Kota stone flooring 25mm thick
4.6	Rest of the area	Vitrified ceramic floor tiles.
5.0	**STAIRCASE**	
5.1	Internal staircases:- Office/ College/Hospital	18 mm thick single piece Granite stone in flooring in treads & risers with dado of matching permanent finish specifications.
5.2	Fire escape staircase	18 mm thick flamed granite in single piece in treads & risers with dado of matching permanent finish specifications.
6.0	**RAILING**:- Office/ College /Hospital	Stainless steel balustades with 12mm thick toughened glass railing or stainless steel tubular horizontal guard rails/ hand rails in SS-304 grade.
7.0	**TOILETS**:- Office/ College/Hospital	Granite flooring/ glazed tiles of size not less than 300 X 450 mm/ 400 X 600 mm in dado upto ceiling height, granite counters, rimless counter sunk basins / stainless steel sinks, mirrors with moulded PVC frame, FRP / PVC doors with frames.
8.0	**ROOFING**	
8.1	Roof treatment	Coba treatment / over deck insulation with Puff slab.
8.2	False ceiling:- Office/ College/Hospital	False ceiling in office area & toilets and Judo hall to cover the services as per design requirements.
8.3	Judo Hall	PUF sandwich sheeting and truss system.
9.0	**FINISHING**	
9.1	**External:**- Office/ College/Hospital	Dry stone cladding/ washed stone grit plaster / water proof weather coat paints / structural glazing/ ACP cladding conforming to Energy Conservation Building Code.
9.2	**Internal:**- Office/ College/Hospital	Cement plaster in wet areas/ Dry acrylic paint /distemper in service area & basement/ Acrylic emulsion paint/ Textured paint (low V.O.C.) over POP/ Wall panelling as per approved Architecture Design upto sill level / 1200mm height or ceiling height.
9.3	Painting Office/ College/Hospital	Doors & windows – Painting / polishing on wood work as per design requirement.
10.0	**Provision for barrier free building**	Ramps, toilets for physically challenged, chequered tiles, use of Braille signage & lifts etc. GRC (glass reinforced concrete) tiles in ramp area.

The rates for the following green measures are already included for civil & electrical works.

a) Over deck insulation and application of high SRI reflective paint on the roof.
b) Masonary work in super structure with autoclave aerated concrete (AAC) blocks/fly ash bricks.
c) Window with reflective glass coating/ high performance double glazed unit.
d) Paints with low VOC options.
e) Provision of pillar cock having infrared sensor and foam flow technology (in offices, colleges and hospitals).
f) Duel plumbing system.
g) LED light fixture

Assistant Engineer (C)
RBH, CPWD, Bhopal

Executive Engineer (C)
RBH, CPWD, Bhopal

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Annexure – III

Green Building Parameters

Name of Work :- Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)

The present building is intended to conform to GHAR rating GREEN of green building parameters. The internal certification of rating will be given by the CPWD & in cases client opts to have the certification from independent agency then the necessary documents shall be provided by the CPWD. Green Building Parameter shall cover to the extent feasible but sufficient enough to earn GREEN rating on the following criteria.

(1) Site shall be in conformity with Master plan including other zonal regulation plan.

(2) Top soil shall be preserved employing requisite measures.

(3) Design shall endeavor to minimize existing natural eco-system with reduced hard paving.

(4) Design shall make progressive use of renewable energy based lightening system including adequate day lighting as well as efficient lighting system.

(5) Ensure work place cleanliness with regard to disposal of waste and efficient in compliance with NBC.

(6) Ensure proper covering of dusty material including wheel washing facility.

(7) Reduce building water use by applying low flow fixtures including minimum wastage of water during construction.

(8) Utilize fly ash in bricks, cement to the extent possible.

(9) Using less energy intensive material / technology wherever possible.

(10) Minimum usage of wood.

(11) Usage of only Low VOC paints in the interior of the building.

(12) Re-charging ground water by RWH wherever feasible.

(13) Ensuring efficient operation and maintenance of building system.

These measures will lead to both tangible and intangible advantages. It is expected that such building will save more than 20% saving in energy cost, 20% reduction in water consumption, reduced waste water production apart from creating a sustainable structure which is designed, built and operated in ecological and resource efficient manner.

Assistant Engineer (C)
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Executive Engineer (C)
RBH, CPWD, Bhopal

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28564/2022/RO Bhopal Regional Director

GENERAL ABSTRACT OF COST

Name of work : Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)

SH No.	Details of Sub Head	Civil	Electrical	Total
1	Annexe Building & Judo Hall	98,050,341.00	54,746,148.00	152,796,489.00
	Total Rs.	**98,050,341.00**	**54,746,148.00**	**152,796,489.00**
	Add ESIC @ 1.125% on A (i.e. @ 4.50% on Labour component i.e. 25% of total cost)			1,718,961.00
	Add for EPF @ 3.125% on A (i.e. @ 12.50% on Labour component i.e. 25% of total cost)			4,774,890.00
	Add 3% Contingencies			4,583,895.00
	Total			**163,874,235.00**
	say			**163,874,200.00**

Rupees (Sixteen Crore Thirty Eight Lakh Seventy Four Thousand Two Hundred) only

Assistant Engineer (C)
RBH, CPWD, Bhopal

Executive Engineer (C)
RBH, CPWD, Bhopal

Assistant Engineer (E)
RBH, CPWD, Bhopal

Superintending Engineer-Bhopal
CPWD, Bhopal

Superintending Engineer(P)(C)
RBH, CPWD, Bhopal

Additional Director General
RBH, CPWD, Bhopal

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ABSTRACT OF COST

Name of work : Construction of Judo Hall & Annexe Building for Sports Authority of India, Bhopal (M.P.)

Sr. No.	DESCRIPTION	Quantity	Unit	Rates (Rs.)	Amt.(Rs.)	Remarks DPAR 2021
I	CIVIL					
1.0	Building Cost					
1.1	R.C.C. Framed structure (Upto six storeys)					
1.1.1	Floor height 3.60 metre for Annexe Building .	1407.49	Sqm	27090.00	38,128,904.00	1.1.1
1.1.2	Floor height 3.00 metre for Judo Hall (*)	1652.56	Sqm	20685.00	34,183,204.00	1.1.2
1.1.3	Floor height 3.00 metre for Pump room.	72.00	Sqm	20685.00	1,489,320.00	1.1.2
	Total				73,801,428.00	A
1.2	Extra for :					
1.2.1	Every 0.30 metre or part thereof, additional/less height of floor above normal floor height of 3.60 metre/ 3.00 metre (on areas having additional/ less height) Height difference = 7.00 -3.00 meter = 4.00Mtr. (for Judo Hall) Rate = 4.00*370/0.30=Rs.4933.00	1652.56	Sqm	4933.00	8,152,078.00	1.3.2
1.2.2	Every 0.30 metre or part thereof, deeper foundations over normal depth of 1.20 metre(on ground floor area only). Rate = (3.0-1.2)*200/0.30 = 1200. Foundation depth is 3.00 metre. (for Annexe Building)	710.88	Sqm	1200.00	853,056.00	1.3.4
1.2.3	Every 0.30 metre or part thereof, deeper foundations over normal depth of 1.20 metre(on ground floor area only). Rate = (3.0-1.2)*200/0.30 = 1200. Foundation depth is 3.00 metre.(for Judo Hall)	1652.56	Sqm	1200.00	1,983,072.00	1.3.4
2.0	SERVICES					
2.1	Internal Water Supply & Sanitary Installations on 'A'	73801428.00	%	4.00	2,952,057.00	2.1
2.2	Civil External Services connections on 'A'	73801428.00	%	1.25	922,518.00	2.2.2
2.3	Local body approvals including tree cutting etc. on 'A'	73801428.00	%	1.25	922,518.00	2.2.3
3.0	RCC Water Tank					
3.1	Overhead tank without independent staging (for Annexe Bldg. & Judo Hall)	15000.00	Litre	20.00	300,000.00	4.1
3.2	Underground sump(for Annexe Bldg. & Judo Hall)	100000.00	Litre	20.00	2,000,000.00	4.5
3.3	Horticulture works(for Annexe Bldg. & Judo Hall)					5.9
3.3.1	Horticulture operations including 300mm earth filling, grassing, tree plantations/ shrubs and potted plants etc.	4500.00	Sqm	275.00	1,237,500.00	5.9.1
4.0	Development of site (for Annexe Bldg. & Judo Hall)					
4.1	Building cost 'A' of 4.5%	73801428.00	%	4.50	3,321,064.00	Note 2.1 P-7
4.2	Septic Tank	1.00	No.	350000.00	350,000.00	Based on DSR
4.3	Tube Well	1.00	No.	270000.00	270,000.00	Based on DSR
5.0	Supplying and filling moorum/kopra	1650.00	Cum	597.00	985050.00	MR
	Total				24,248,913.00	
	G.Total				98,050,341.00	
	Add approved Cost Index is 100.00 for Bhopal as on 01/10/2021 on PAR 2021 i.e. [(98-100)/100]x100%=0% on except MR item i.e.(Rs.9,80,50,341.00 - Rs.985050.00 = Rs.9,70,65,291.00)				0.00	
	Total				98,050,341.00	

Note: (*)It is stated that for Judo Hall roofing will be done with truss and sheeting system. However Rough Cost involved for PUF sandwich Panel sheet and truss system will be approximately same of RCC slab Beam system.

Assistant Engineer(C)
RBH, CPWD, Bhopal

Executive Engineer(C)
RBH, CPWD, Bhopal

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Preliminary Estimate (Eelectrical Provision)

Name of Work:- Construction of Judo hall and Annexe Building for Sport Authority of India, Bhopal (M.P.)						
	Judo Hall Building cost = 1652.56 sqm @ Rs. 20685 / sqm = Rs. 34183204.00					
	Annexe Building cost = 1407.49 sqm @ Rs. 27090 / sqm = Rs. 38128904.00					
	Pump Room Building cost = 72sqm @ Rs. 20685 / sqm = Rs. 1489320.00					
			TOTAL = Rs. 73801428.00			
Sl.N	**Description**	**Quantity**	**Unit**	**Rate**	**Amount**	**Rmarks**
1	Electrical External Service connection	73801428.00	%	3.75%	2767554.00	2.2.1 PAR-2021
2	Internal electrical installation.	73801428.00	%	12.50%	9225179.00	2.3 PAR-2021
3	Extra for Power wiring & Plugs	73801428.00	%	4%	2952057.00	2.4.1 PAR-2021
4	Extra for Lightning conductor	72312107.70	%	0.25%	180780.00	2.4.2 PAR-2021
5	Extra for Telephone conduit	73801428.00	%	0.25%	184504.00	2.4.3 PAR-2021
6	Extra for LAN conduit	72312107.70	%	0.25%	180780.00	2.4.3 PAR-2021 based
7	Extra for sports lighting in JUDO HALL	26	Each	111000.00	2886000.00	MR
8	**LIFT**					
	Supplying, Installation,Testing, & Commissioning of 13 Passenger Lift (G+1) Complete etc. as reqd.	1	Each	1800000.00	1800000.00	3.1.3 PAR-2021
9	**CCTV System**					
	Supplying, installation, testing and commissioning of IP based CCTV system for building security comprising of PTZ/fixed camera, cabling, digital recording, HD display system with minimum desplya of 5" x 8" per camera and hard ware software support for indoors only	3132.05	SQM	200.00	626410.00	6.10.1 PAR-2021
10	**Lighting Automation including occupancy Sensors**					
	Supplying, installation, testing and commissioning of lighting automation including ocupancy sensors.	3132.05	SQM	200.00	626410.00	6.14.1
11	**LAN System**					
	Supplying,installation, testing and commissioning of LAN system comprising of core switches & L2 Switches with 10 G, 10 giga SFP modules, WIFI access points, WIFI controller, network management software, racks, CAT-6A cable, patch panels, OFC etc.	3060.05	SQM	500.00	1530025.00	6.16.1 PAR-2021

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12	**IP Based EPABX System**					
	Supplying,installation, testing and commissioning of IP Based EPABX System comprising of core switches & L2 Switches with 10 G, 10 giga SFP modules, industry standard appliance server cloud-based, enterprise-grade UC solution, MID/Entry level IP/ SIP phone with dual 1 gig ports, racks, CAT 6 A cable, patch panels, OFC etc.	1407.49	SQM	500.00	703745.00	6.17.1
13	**Street Lighting with LED**					
	Supplying, installation, testing and commissioning of LED street/compound /high mast/pathway/landscape lighting for the entire campus.	4400.00	SQM	150.00	660000.00	6.19.1 PAR-2021
14	**Emergency Light & Illuminated signages**					
	Illuminated singnages	3132.05	SQM	20.00	62641.00	6.28.1 PAR-2021
15	**Fire Fighting**					
	Fire Fighting with wet riser system	3132.05	SQM	400.00	1252820.00	1.5.1 PAR-2021
16	**Fire Alam**					
16.1	Manualy operated electronic Fire Alarm System (MOEAF type)	3132.05	SQM	250.00	783013.00	1.6.1 PAR-2021
16.2	Automatic Fire Alarm System	3132.05	SQM	600.00	1879230.00	1.6.2 PAR-2021
17	**Air Conditioning (VRV / VRF)**					
	Supplying Installation, Testing and commissioning of VRV / VRF system including indoor / outdoor units, piping, electrical power distribution / wiring, electrical panel, treated fresh air system.	472	HP	55000.00	25960000.00	6.6.1 PAR-2021
18	**Pump Set**					
18.1	Supplying,installation, testing and commissioning of vertical submersible pump set of suitable capacity with supply cable, control panel, pipe, earthing etc. as reqd.	1	Set	175000.00	175000.00	MR
18.2	Supplying,installation, testing and commissioning of horizontal sumersible pump for sump well of suitable capacity with supply cable, control panels, pipe, earthing etc. as reqd.	2	Set	75000.00	150000.00	MR
19	**Water Cooler**					
	Supplying, Installation,Testing, & Commissioning of self standing Storage type water cooler of Storage capacity 80 / 60 Ltr.	4.00	Each	40000.00	160000.00	MR
				TOTAL	**54746148.00**	
	Add approved Cost Index is 100 for Bhopal as on 01/10/2021 on PAR 2021				0	
				Total Rs.	**54746148.00**	

18/3/2022

Assistant Engineer (E) (P)
O/o ADG,RBH
C.P.W.D., Bhopal

Excutive Engineer (E) (P)
O/o ADG,RBH
C.P.W.D., Bhopal

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File No. 01-1109(07)/2022-RC Bhopal Division (Computer No. 14592)
28564/2022/RO Bhopal Regional Director

ANNEXURE -IV

CALCULATION FOR TOTAL AREA

Name of Work : Construction of Judo Hall & Annexe Building for SPORT AUTHORITY OF INDIA, Bhopal (MP).

	As Per Preliminary Drawings				
SLNo	Description	Total Area	Plinth Area	Unit	Remarks
	Total Ground Floor Area (Judo Hall + Annexe building)	2291.44		Sqm	
	Total Area of Judo Hall (36.40 *45.40 = 1652.56 sqm)	1652.56		Sqm	
	Net Ground Floor Area for Annexe building	**638.88**		**Sqm**	
A	**Plinth Area for Annexe Building**				
	Ground floor	638.88	638.88	Sqm	**100% of Total Area**
	First Floor	638.88	638.88	Sqm	**100% of Total Area**
	Mumty	87.34	87.34	Sqm	**100% of Total Area**
	Porch	42.39	42.39	Sqm	**100% of Total Area**
	Total Area	**1407.49**	**1407.49**	**Sqm**	
B	**Plinth Area for Judo Hall (36.40 *45.40 = 1652.56 sqm)**	**1652.56**	**1652.56**	**Sqm**	**100% of Total Area**
C	**Supplying and filling moorum Kopra**			**1650.00**	**cum**
D	**Area for pump room**	12.00	6.00	72.00	**100% of Total Area**
			Total	**72.00**	**Sqm**
E	**Ground Floor Area (638.88+ 72.00) = 710.88**	**710.88**		**Sqm**	

Assistant Engineer(C)
RBH, CPWD, Bhopal
14/3/2022

Executive Engineer(C)
RBH, CPWD, Bhopal
14/3/2022

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Annexure - VI

Nos. of booking days								
S. No.	**Location/ Space**	**Rent per day (In Rupees)**	**2016-17**	**2017-18**	**2018-19**	**2019-20**	**2020-21** (Booking less than previous year due to COVID)	**2021-22** (Booking less than previous year due to COVID)
1	Auditorium	2,50,000/-	60	44	105	99	00	02
2	Main Arena	*Category-1 = 7,50,000/- *Category-2 = 12,50,000/- *Category-3 = 20,00,000/-	**11	00	00	00	00	00
3.	Open space near Gate No.14	2,00,000/-	47	56	67	16	00	00
4.	Open space near Gate No.2	2,25,000/-	65	54	76	65	10	84
5.	Open space near Gate No.13	1,00,000/-	02	00	00	00	00	00
6.	Open space near Gate No.7 to 9	50,000/-	13	10	17	16	00	00
7.	Open space near Gate No.6	75,000/-	04	02	29	24	10	00
8.	Open space West Block (in front of the main arena)	1,00,000/-	1 **12	09	26	10	00	00
9.	1st Floor Corridor (West Block)	25,000/-	**12	00	00	00	00	00
10.	VIP/VVIP Lounge	20,000/-	01	01	22	00	00	00
Total Revenue from non-sports bookings			**3,69,18,680**	**9,23,16,232**	**5,51,88,410**	**9,17,73,360**	**28,62,734**	**2,35,48,000**

Note: *Category-1 for School/College/Deptt/NGOs), Category-2 for National Corporate Events and Category-3 for International Event/International Corporate Event)

**For Film Shooting: Charges applicable is as under:

- Rs. 50,000/- for 2 hrs or less
- Rs. 1,00,000/- for 4 hrs or less
- Full per day rent as applicable for 8 hrs

Annexure – VII

SPORTS AUTHORITY OF INDIA
National Center for Sports Science and Research
IGSC, New Delhi – 110002

Expression of Interest (EOI) for Empanelment of Medical Consultants on visiting basis in SAI

National Center for Sports Science & Research, Sports Authority of India (SAI) invites Expressions of Interest (EOI) on prescribed formats for empanelment of Medical Consultants on visit basis initially for a period of 1 year and will be extended to 02 or more years depending on satisfactory performance. Interested individuals may submit their proposals as per Annexure 'A'.

ABOUT SAI & NCSSR

Sports Authority of India (SAI) is an autonomous organization under the administrative control of the Ministry of Youth Affairs and Sports with its Head Quarters at Jawaharlal Nehru Sports Complex, Lodhi Road, New Delhi-110003.

SAI has established 23 National Centers of Excellence across the country for training of young and elite athletes in various disciplines. These NCOEs are funded for several items *inter-alia* Sports Science staff through Khelo India Scheme of Ministry of Youth Affairs & Sports.

National Center for Sports Science & Research, Sports Authority of India, will be the lead Institution for supporting high performance athletes for achieving excellence in sports. The aim would be to achieve sporting excellence by providing highly integrated, quality-assured services (testing), the development of leading experts (through research) which will subsequently drive innovation and share knowledge (research & cooperation) to positively impact sporting performance.

1. **ESSENTIAL QUALIFICATIONS & EXPERIENCE:**

S. N.	SPECIALITY	REQUIREMENT	QUALIFICATION	HONORARIUM
1	Medicine	01	MD or DNB in Medicine with 10 yrs. of experience	1. 01 visits per week 2. Honorarium Rs. 2,500 per visit & Rs. 500 travel allowance per visit.
2	Obstetrics & Gynecology	01	MD or DNB in Obstetrics & Gynecology with 10 yrs. of experience	
3	Dermatology	01	MD or DNB in Dermatology with 10 yrs. of experience	
4	Opthalmology	01	MD or DNB Ophthalmology with 10 yrs. of experience	
5	ENT	01	MD or DNB in ENT with 10 yrs. of experience	
6	Orthopedics	01	MS or DNB Orthopedics with 10 yrs. of experience	
7	Cardiology	01	DM Cardiology with 10 yrs. of	

			experience	
8	Neurosurgery	01	MS Neurosurgery with 10 yrs. of experience	
9	Dentistry	01	MDS Dentist with 10 yrs. of experience	

2. **ROLES & RESPONSIBILITIES-**

- Consultation/tele-consultation services
- OPD services
- Referral services

3. **REGISTERATION**

The candidates should be registered with Delhi/State Council/Medical Council of India.

The interested candidates may give their expression of Interest in prescribed format in a sealed envelope or by email address as given below:

Office of NCSSR,
Room No: 41
Indira Gandhi Stadium Complex
Sports Authority of India
New Delhi - 110002

The last date for submission of the proposal is by …… at …….

4. **SELECTION PROCESS**

a. All candidates who fulfill the eligibility criteria will be called for a walk-in interview.
b. Information regarding date & venue will be forwarded via email mentioned in the application form.
c. **Age limit**: The upper age limit is 65 years as on the closing date for submission of online application.

APPICATION FORM

Passport Size Photograph

1. Name (in block letters) : ……
2. Gender : …….
3. Date of Birth : ……..
4. Father's/Husband : ……
5. Nationality :…….
6. Proof of Identity :……..

7. Address (Permanent)
:……
……..……
……...……...
……
……..……..
Pin Code : …….
Contact No. & :……..
E-mail :……

8. Address for correspondence:……
……
…….
……
……
……
Pin Code : ……

9. Qualification (s)

Year of Passing	Examination Passed	Name of College	University	Percentage of Marks/Division

Any other add. Qualification

10. Registration Number with Delhi/State Council/MCI and its validity (as applicable)
_____

11. Details of Experience:

Title of the Position Held	Name of the Hospital/Institute	Date of Joining	Date of Leaving	No. of Years	Nature of duties performed with reference to the requirement

Any other :-

……

Note : for all qualifications and experience, please submit self-attested photocopies/ scanned copies.

12. Please attach your detailed CV.

Name :……

Signature:……..

Date: ……..

--CONCLUDED--

Annexure - VIII

SPORTS AUTHORITY OF INDIA

(ES Division)

Subject:	**Price Negotiation Committee Minutes for Selection of Project Management Unit for providing Technical Support and Consultancy for IT Related Projects**
IFB No:	**GEM/2022/B/2369329**
Tendering:	**Open Tender (QCBS System) through GeM**

Price Negotiation Committee consisting of following members met on 22.09.2022 for negotiation with the H1 bidder (M/s Netprophets Cyberworks Private Limited) against the bid invited through GeM vide ref no. GEM/2022/B/2369329 for "*Selection of Project Management Unit for providing Technical Support and Consultancy for IT Related Projects*":

1. Sh. M S Varughese, ED (Operations) – Chairman
2. Sh. Matadin Asiwal, Director (Finance) - Member
3. Sh. K. C. Meena, DD (ES) - Member
4. Sh. Veerlapati Aditya Raman, AD (IT) – Member; Co-opted, being Link officer in place of Sh. Himanshu Singh, AD (IT) who is on paternity leave.

Following were present from the bidder:

1. Sh. Ashish Chauhan -VP, M/s. Netprophets Cyberworks Private Limited.
2. Sh. Mukesh Kumar-Business Manager, M/s. Netprophets Cyberworks Private Limited

2. A comparison of the initial rates quoted against present tender inquiry and estimated cost is as under:

Rates for 3 Years (Inclusive of Taxes) (In Rs.)			
S. No.	**Quoted Amount**	**Estimated Amount**	**% Variation of H1 price from Estimated Price**
1	7,53,67,608.19	7,53,00,000.00	0.09%

3. From the above table, it was noted by the PBEC that the total quoted price by the H1 bidder is at par when compared against the total estimated price (0.09% Higher). However, in order to explore better price the PBEC recommends for price negotiation with the H1 bidder (M/s Netprophets Cyberworks Private Limited).

4. The PNC was further apprised that the estimated price for said work was Rs. 7,53,00,000.00.

SUBMISSION FROM THE BIDDER

5. The bidder (M/s Netprophets Cyberworks Private Limited) was asked by the committee to offer the best price based on the observations of PBEC above. After detailed deliberations, the bidder submitted the revised price quote of **Rs. 7,00,93,958.04** vide GeM on 22.09.2022. (Attached at Annexure – A). The PNC met on 22.09.2022 to discuss about the revised offer by the bidder. A comparison of the revised rates with the estimated and initial quote rate is presented as below:

Table-I

Price Comparison against Estimated Amount					
Rates for 3 Years (Inclusive of Taxes) (In Rs.)					
S. No.	**Estimated Amount**	**Quoted Amount (H-1 Price)**	**Revised Quoted Amount**	**%Variation of H1 price from Estimated Price**	**%Variation of Revised Quoted Amount from Estimated Price**
1	7,53,00,000.00	7,53,67,608.19	7,00,93,958.04	0.09%	(-) 6.91%

6. The committee also took cognizance of the NICSI rates for Tier-III empanelled agencies and the same is summarized as below

Table-II

Price Comparison against NICSI Amount (Annexure-B) without NICSI Operating Margin					
Rates for 3 Years (Inclusive of Taxes) (In Rs.)					
S. No.	**Amount (Based on revised NICSI rates in INR)**	**Quoted Amount (H-1 Price)**	**Revised Quoted Amount**	**%Variation of H1 price from NICSI Price**	**%Variation of Revised Quoted Amount from NICSI Price**
1	**7,06,90,081.02**	7,53,67,608.19	7,00,93,958.04	6.62%	(-) 0.84%

Table-III

Resource wise Price Comparison (Excluding GST)					
S.No	Designation	Estimated Amount (in INR)	Amount (Based on revised NICSI rates in INR)	Quoted Amount (H-1 Price) (in INR)	Revised Quoted Amount (in INR)
1	Program Manager	2,01,279	1,88,956.80	1,88,956.8	1,74,960.0
2	Technical Lead / Project Manager	1,00,639	94,478.40	94,478.4	94,476.40
3	Senior Software Developer	64,409	60,465.96	75,000	60,464.18
4	UI/UX Developer	53,674	50,388.48	70,000	50,386.48
5	Quality Assurance	46,965	44,089.92	65,000	44,087.92
6	Technical Lead / Project Manager Fit India Integration	1,00,639	94,478.40	94,478.4	94,476.40

OBSERVATIONS AND RECOMMENDATION

6. From the above tables, the PNC considered the revised offer of **Rs. 7,00,93,958.04** by H1 bidder (M/s Netprophets Cyberworks Private Limited) including taxes, as reasonable and recommends for order placement against RFP for "*Selection of Project Management Unit for providing Technical Support and Consultancy for IT Related Projects*" for a period of 3 years.

The Committee Members also declare that we have no conflict of interest with any of the bidder in this tender

(Veerlapati Aditya Raman)
AD (IT)

(K. C Meena)
DD (ES)

(Matadin Aswal)
Director (Finance)

(M S Varughese)
Executive Director (Operations)

Annexure - A

NetProphets Cyberworks

NetProphets Cyberworks Pvt. Ltd.
Technopolis 6th Floor, C-56A /12, Sector 62,
Noida - 201301 U.P. India

+91 120 478 4999 www.npglobal.in

ANNEXURE 'XI' | PRICE BID FORMAT

Sl. No.		Qty.	Monthly Rate per resource (Excl. of GST) in INR	Applicable Tax (GST) @18%	Monthly Rate per resource (incl. of Tax) in INR	Total Man-month Rate (incl. of Tax) in INR
		A	B	C	D = B+C	E
1	Program Manager	1	174960.00	31492.8	206453	7432300.8
2	Technical Lead/Project Manager	11	94476.40	17005.752	111482	44146932.19
3	Senior Software Developer	2	60464.18	10883.5524	71348	5137036.733
4	UI/UX Developer	2	50386.48	9069.5664	59456	4280835.341
5	Quality Assurance Testing	2	44087.92	7935.8256	52024	3745709.683
6	Technical Lead / Project Manager Fit India Integration	6	94476.40	17005.752	111482	5351143.296
Total including GST for 03 years, 'Sf'						**700,93,958.04/-**

- Sf, the Financial Score will be derived as mentioned above

***Taxes will be applicable as per existing government norms.**
***Bidder should consider all overhead costs while quoting.**

Netprophets Cyberworks Pvt. Ltd.

Authorised Signatory

Annexure-B

Amount as per Revised NICSI Rate without NICSI Operating Margin

S. No.	Designation	No. of Resources	Period of Engagement	Revised NICSI Rate excluding Tax	Cost excluding Tax (in INR)	Tax Amount @18% (in INR)	Total Amount as per NICSI Rate (in INR)
		A	B	C	D=A*B*C	E=D*18%	F = D + E
1	Program Manager	1	36	1,88,956.80	68,02,444.80	12,24,440.06	80,26,884.86
2	Technical Lead / Project Manager	11	36	94,478.40	3,74,13,446.40	67,34,420.35	4,41,47,866.75
3	Senior Software Developer	2	36	60,465.96	43,53,549.12	7,83,638.84	51,37,187.96
4	UI/UX Developer	2	36	50,388.48	36,27,970.56	6,53,034.70	42,81,005.26
5	Quality Assurance	2	36	44,089.92	31,74,474.24	5,71,405.36	37,45,879.60
6	Technical Lead / Project Manager Fit India Integration	6	8	94,478.40	45,34,963.20	8,16,293.38	53,51,256.58
Total for 3 years					**5,99,06,848.32**	**1,07,83,232.70**	**7,06,90,081.02**