



## Chhattisgarh State Renewable Energy

### Development Agency (CREDA)

Website: <https://creda.co.in/>

VIP road (Airport road), Near Energy Education Park, Raipur (C.G.)

E-mail: [creda.om@gmail.com](mailto:creda.om@gmail.com), Contact No.: 94255-05453

Ref. no. 17700/CREDA/HOR/EEP Patan/2020-21

Date:04.03.2021

**CREDA invites Expression of Interest (EoI) cum QCBS tender for standardization of rates for establishment of Energy Education Park including the work of survey, design, drawing, estimation etc. for landscaping, horticulture, specialized Constructions, development, Irrigation etc. at Village – Pandar, Block- Patan, District - Durg (C.G.)**

#### Schedules of Tender:-

Particulars	From Date & Time	To date & Time	Place
Date of issue of notice inviting EoI Cum QCBS Tender	04.03.2021, 05:00 pm	----	----
Submission of Pre-bid queries in writing	18.03.2021, 11:00 am	18.03.2021, 05:00 pm	At Head Office CREDA, RE-V, Section, Raipur
Submission of sealed Tender	06.04.2021, 11:00 am	06.04.2021, 02:00 pm	
Opening of EoI Cum QCBS Tender	08.04.2021, 12:30 pm	08.04.2021, 02:00 pm	
Presentation of shortlisted eligible bidder	09.04.2021, 12:30 pm	09.04.2021, 02:00 pm	
Opening of financial bid	09.04.2021, 02:30 pm	09.04.2021, 03:00 pm	

- EOI cum QCBS Tender can be download from CREDA Website <https://creda.co.in> and the EoI Cum QCBS Tender should have enclosed processing fees (non-refundable) of Rs. 11,800/- (Eleven Thousand Eight Hundred only)[including GST]& EMD (Refundable as applicable) Rs. 10,00,000/- (Rupees Ten Lac only) in favour of “CREDA” Payable at Raipur, in form of D.D. only.
- Bids received without or with inadequate EoI Cum QCBS Tender processing fees and EMD shall be liable to be rejected.
- If any amendment done in this EoI Cum QCBS Tender shall only be notified through CREDA website i.e. <https://creda.co.in>

# CHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY (CREDA)

## “CONTENTS”

No.	Description	Page No.
1.	Notice Inviting Tender	3
2.	Eligibility Criteria	4
3.	Assessment of Bidder	5
4.	Application	6
5.	<b>SCOPE OF WORK-</b> A. Civil Work as per CGPWD SOR 2015 B. Landscaping & Horticulture Work C. Irrigation Work D. Non SOR Items E. Open Gym Equipments F. Fountain Accessories G. KOI pond Accessories	7-23
6.	Undertaking of The Tenderer	24
7.	Instruction to Contractor	25-28
8.	Price/Financial Bids	29-38
9.	Draft of Agreement	39-41
10.	Consortium Agreement	42-44
11.	Schedule-I, General & Commercial Information	45-46
12.	Schedule-II, Technical Information	47
13.	Schedule-III, Technical Deviation	48
14.	Schedule-IV, Past Experience	49
15.	Annexure-B, Experience	50
16.	END of Tender Document	51

**Chhattisgarh State Renewable Energy Development Agency (CREDA)**Website: <https://creda.co.in/>

VIP road (Airport road), Near Energy Education Park, Raipur (C.G.)

E-mail: [creda.om@gmail.com](mailto:creda.om@gmail.com), Contact No.: 9425505453

Ref. no. 17700/CREDA/HOR/EEP Patan/2020-21

Date: -04.03.2021

**1. NOTICE INVITING EoI cum QCBS Tender**

CREDA invites Expression of Interest (EoI) cum QCBS tender for standardization of rates for establishment of Energy Education Park including the work of survey, design, drawing, estimation etc. for landscaping, horticulture, specialized Constructions, development, Irrigation etc. at Village – Pandar, Block- Patan, District - Durg (C.G.)

SN	Description of Items	EMD	Cost of EoI Document
1	Expression of Interest (EoI) cum QCBS tender for standardization of rates for establishment of Energy Education Park including the work of survey, design, drawing, estimation etc. for landscaping, horticulture, specialized Constructions, development, Irrigation etc. at Village – Pandar, Block- Patan, District - Durg (C.G.)	Rs. 10,00,000/-	Rs. 11,800/-

Estimated Total Project Cost – Approx. 10 Crore (Incl. GST)

Work completion period - 12 months (including rainy season)

The quantity of Items mentioned in the (EoI) cum QCBS tender may vary as per actual site requirement, conditions and demand. Important Events and time schedule for this Bid are as follows –

Particulars	From Date & Time	To date & Time	Place
Date of issue of notice inviting EoI Cum QCBS Tender	04.03.2021, 05:00 pm	----	----
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- EOI Cum QCBS Tender can be downloaded from CREDA Website <https://creda.co.in> and the (EoI) cum QCBS tender should be accompanied with processing fees (non-refundable) of Rs. 11,800/- (Rs. Eleven Thousand Eight Hundred only) & EMD (Refundable as applicable) Rs.10,00,000/- (Rupees Ten Lac only) in favor of “CREDA” Payable at Raipur, in form of D.D. only.
- The sealed (EoI) cum QCBS tender forms will be **accepted till the date 06.04.2021 up to 02:00 PM** at the CREDA Head Office, (RE-V), VIP Road, Near Energy Park, Village-Fundhar, Raipur(C.G.).
- Bidders should Submit Pre-Bid queries with their suggestions/objections/reservations if any with details so as to avoid any confusion and to ensure clarity and transparency regarding the Bid.
- Bids received without or with inadequate (EoI) cum QCBS tender processing fees shall be liable to be rejected.
- Evaluation of (EoI) cum QCBS tender shall be carried out as per eligibility conditions mentioned in this document and based on verification of testimonials submitted.
- The contractor needs to present a power point presentation of the conceptual design, idea of Energy Education Park, Village - Pandar, Patan District - Durg on the projector at CREDA, Head office, Raipur.
- If any amendment done in this (EoI) cum QCBS tender will only be notified through CREDA website i.e. <https://creda.co.in>

CREDA reserves all rights to accept/reject any or all (EoI) cum QCBS tender in full/part without assigning any reasons.

**Chief Engineer (RE-V)**  
**H.O. CREDA Raipur**

## **2. ELIGIBILITY CRITERIA**

1. Intended bidder must be a Valid Registered Contractor with C.G. PWD in 'B' Class or higher (Must have to submit Copy of valid CGPWD Registration Certificate)
2. Firm/Architect/Consultant/Designer/Engineer having experience of similar work minimum 5 years or above. Experience Certificates should be in annexed format (as per annexure-"B") only or other format containing similar information as in attached format (Annexure -B) shall be considered only in case of submitted in Hindi/English language only.
3. Work Experience: Shall have rendered consultancy/landscaping/Construction services, survey design, drawing and execution of Civil work, Horticulture and its Irrigation, Drainage work service for total project costing to Rs. 10.00 Crores.
4. Bidders must have a Net worth of minimum Rs. 1.00 Crore on 31st March 2020. They shall have to submit a copy of certificate duly signed by a qualified and registered Chartered Accountant as a proof.
5. Bidders should have an aggregate turnover of minimum Rs. 10.00 crores in last three years i.e. 2017-18, 2018-19 & 2019-20. Bidders are requested to submit a copy of required aggregate turnover certificate duly signed by a qualified and registered Chartered Accountant along with audited statements.
6. Bidders who are debarred from business by Govt. /Govt. Agency in any state would not be eligible to participate in this bid. A self-declaration should be submitted by the bidder to this effect, failing which bid shall be rejected.
7. The bidder shall have experience of execution of Development/Construction/Consultancy/Horticulture work in any Energy Education Park of any state Nodal Agency of MNRE of any state of minimum Rs. 1.00 Crore.
8. Bidder must have a Registered Office in Chhattisgarh State. The office can be randomly inspected by CREDA officers time to time.

Bidders must fulfill all the afore mentioned eligibility criteria from point no.1 to point no.8.

**Consortium:-**Consortium of two parties will be allowed in this (EoI) cum QCBS tender. The eligibility criteria shall be as follows-

1. All the Eligibility criteria mentioned above from point no.1 to point no. 8 shall be fulfilled jointly by both the partners of Consortium.
2. If any partner of the Consortium is debarred from business by Govt. /Govt. Agency in any state then the Consortium would not be eligible to participate in this bid.
3. The lead partner and other partner shall have positive net worth individually and shall have required aggregate turnover of Rs. 10.00 Crores, jointly.
4. Consortium Agreement in the prescribed format shall have to be submitted with EoI Cum QCBS Tender, on Rs. 100/- Non- judicial Stamp.

### **3. ASSESSMENT OF BIDDER**

The assessment will be done as per following:

**A. Technical Assessment: (Total 50Marks)**

- |   |            |
|---|------------|
| 1. CGPWD “B” class valid certificate or above   | – 10Marks  |
| 2. Experience of 05 years or above  | – 10Marks  |
| 3. Experience of developing any Energy Education Park of any State Nodal Agency of MNRE of any state Total work Amounting minimum Rs. 01.00 Crore | – 20 Marks |
| 4. Turnover of 10 Crore or above  | – 10Marks  |

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**Total 50 Marks**

**B. Presentation: (Total 30 Marks)**

Presentation as per the work mentioned in the scope of work section, having minimum slides-25 nos. The Presentation shall cover all technical details, drawing, design, layouts etc. The bidder shall have to present his presentation on Date 09.04.2021 from 12:30 PM at CREDA Head Office Raipur.

**Note:-**The bidder who will gain minimum 50 Marks out of 80 Marks in Technical Assessment & Presentation will be eligible in this tender for further assessment and the financial bid of those bidder who have gained less than 50 Marks will not be opened.

**C. Financial Assessment: (Total 20 Marks)**

The bidder shall have to fill all the rates mentioned in financial bid (Incl. GST).

The formula for the financial assessment as below-

- |  |            |
|--|------------|
| 1. F (A) = 6.5 Crore x (% rate ‘As per Price Bid A’/100) | = Rs. .... |
| 2. F (B) = Total of all rate ‘As per Price Bid B’        | =Rs.....   |
| 3. F (C) = Total of all rate ‘As per Price Bid C’        | =Rs.....   |
| 4. F (D) = Total of all rate ‘As per Price Bid D’        | =Rs.....   |
| 5. F (E) = Total of all rate ‘As per Price Bid E’        | =Rs.....   |
| 6. F (F) = Total of all rate ‘As per Price Bid F’        | =Rs.....   |
| 7. F (G) = Total of all rate ‘As per Price Bid G’        | =Rs.....   |

All total of Financial bid F (A) + F (B)+ F (C)+ F (D) + F (E) + F (F) + F (G) = F (T)

The F (T) Financial total shall be allowed Up to 20% below from the estimated project cost, otherwise EoI Cum QCBS Tender will be rejected due to ALR (Abnormally Low Rate).

**Financial Assessment Marks = 20 + {1- F (T) / Total Project Cost} X 100/2**

**Final Assessment Marks:-**

- (A) Technical Marks + (B) Presentation Marks + (C) Financial Marks = Total Marks
- The Bidder who score highest total marks in the final assessment will be awarded the work, in phase manner.

**4. APPLICATION**

To ensure that your EoI submitted to CREDA is complete in all respects, please go through the following application for the enclosures attached with your (EoI) cum QCBS tender.:-

01	Name of the Firm/ Agency	
02	Address of the Firm/Agency/company	
03	Organization Constitution - Registered Company /Firm - Others	
04	PWD Registration no., date and validity	
05	Availability of Local Setup at Chhattisgarh & Address	
06	Experience in Various types of Civil work, Repair, Renovation, Electrical, Landscaping, Horticulture, Irrigation, Drainage work and its Maintenance or similar work done in last One year along with copies of the orders.	
07	Annual Turnover Certificate duly signed by Chartered Accountant submitted for last three years	
08	Name of authorized signatory ( In block letters ) for the agency	
09	Telephone Numbers of the Firm	
10	e-mail address	
11	GST no. (Attached self attested copy of the certificate)	
12	PAN no.(Attached self attested copy of the certificate)	
13	PF no. (Attached self attested copy of the certificate)	
14	ESIC no. (Attached self attested copy of the certificate)	
15	<b>Earnest Money Deposit-</b> Earnest Money Deposit of Rs...../-, submitted in the form of Demand Draft / Banker's Cheque, drawn on ..... Bank ..... Branch, bearing DD/No. ....date..... is attached here with.	
16	<b>Processing Fee-</b> Processing Fee of Rs...../-, submitted in the form of Demand Draft/Banker's Cheque, drawn on.....Bank,.....Branch, bearing DD No.....dated.....is attached here with.	

PLACE:

AUTHORISE SIGNATORY:

DATE:

NAME IN FULL:

DESIGNATION/STATU:

FIRM/COMPANY SEAL:

## **5. SCOPE OF WORK**

### **A. For Any Type of Civil Construction work as per CGPWD SOR 2015**

#### **Proposed Site Information**

##### **Type of works:**

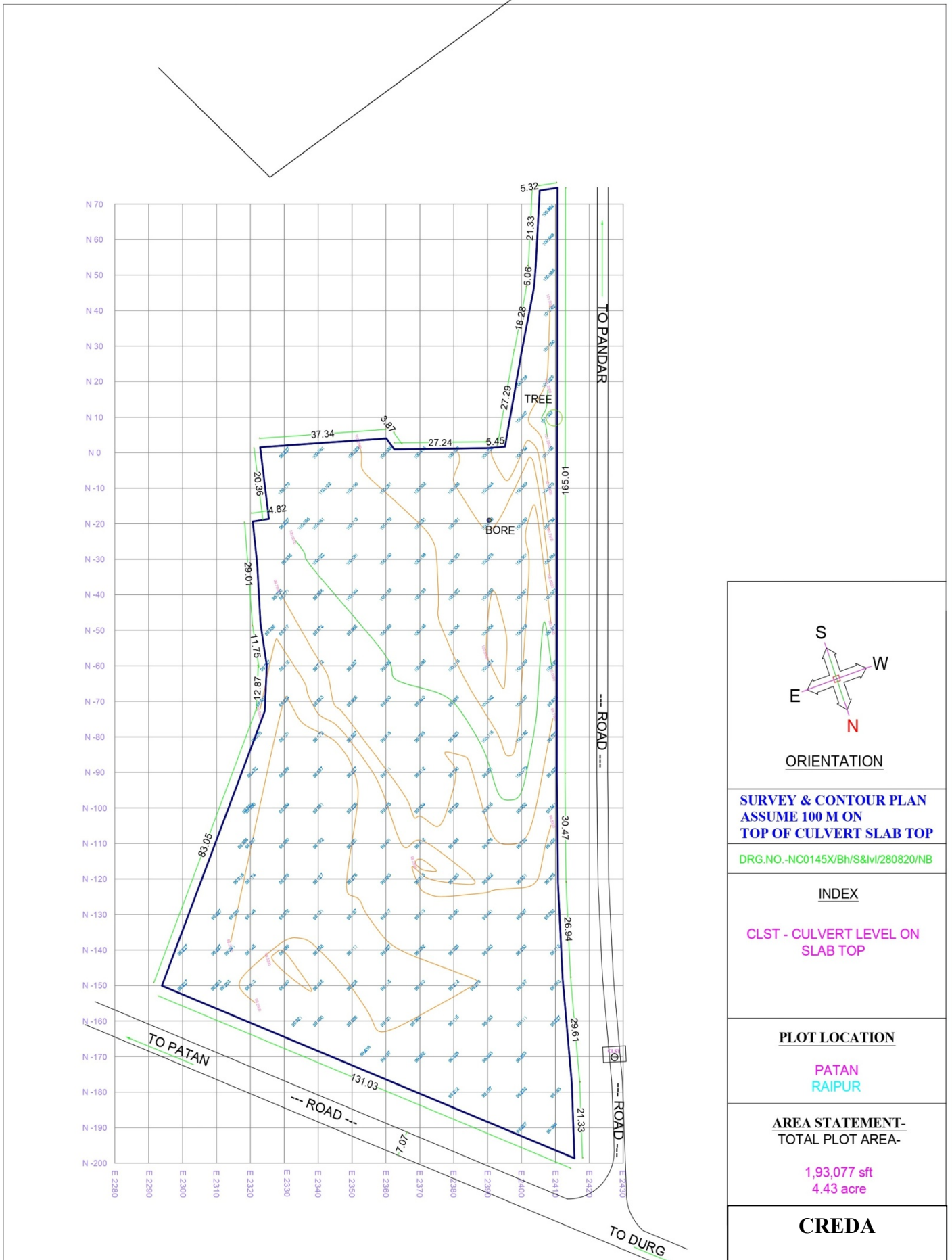
1. Topography/Contour Survey of proposed site.
2. Conceptual plans to initiate site development.
3. Presentation of the whole project & concepts.
4. Approximate estimation of the project.
5. Various Types of Civil work.
6. Design, drawing, estimation, and get approval from CREDA before operation & execution.
7. Landscaping, Horticulture, and Specialized Development work.
8. Irrigation, Drainage works and Related Civil works.
9. Construction of structures, utilities, offices and related work.
10. Fabrication & Erection work.
11. Providing and Laying Bilha Stone/Paver Block in path ways.
12. All type of electrical work as per electrical layout.
13. Provision of benches, equipment's and garbage pits, trenches etc.
14. Providing & fixing of sanitary, drainage and water supply/works.
15. Other civil works related to Energy Education Park and its allied campus.  
And all related work for developing of park suggested and instructed by CREDA.

##### **Note:-**

1. **Work order:-** Separate Work order, related to the work will be issued for each work or portion thereof. The rates will be as per rates approved w.r.t. CGPWD SOR2015 and/or rate quoted by Bidder as per price bids.
2. **Task management and approval:-** The contractor/Execution team will coordinate all activities with the concerned CREDA Head/Regional/District office all recommendation for tasks to be performed by the contractor under this work order will be communicated to the RO/DO for consideration and approval.
3. **Schedule:-** The Work specified under this work order is to be completed within the given schedule time in Work Order.
4. **The Specifications shall be strictly as per CG PWD's SOR 2015 and as specified by CREDA.**
5. **Any other Work/Item which is not specified in this (EoI) cum QCBS tender shall be evaluated on the basis of CGPWD SOR 2015. If any work/item is in CGPWD SOR 2015 then the rates of that work item may be calculated as per financial bid 'A'.**
6. **All Estimates are inclusive of GST.**
7. **Payment to the contractor will be made as per actual measurement.**
8. **Anything which is finalized in the conceptual plan shall be part of the tender document.**
9. **The bidder shall do the complete maintenance of the Energy Education Park until the date of handing over to the competent officer/CREDA.**



## Site Layout Map



<p><b>ORIENTATION</b></p>
<p><b>SURVEY &amp; CONTOUR PLAN</b>  <b>ASSUME 100 M ON</b>  <b>TOP OF CULVERT SLAB TOP</b></p>
<p>DRG.NO.-NC0145X/Bh/S&amp;M/280820/NB</p> <p><b>INDEX</b></p> <p style="color: magenta;">CLST - CULVERT LEVEL ON SLAB TOP</p>
<p><b>PLOT LOCATION</b></p> <p style="color: cyan;">PATAN RAIPUR</p>
<p><b>AREA STATEMENT-</b>  <b>TOTAL PLOT AREA-</b></p> <p style="color: magenta;">1,93,077 sft 4.43 acre</p>
<p><b>CREDA</b></p>



## Item of Work

### Major Civil Construction work/Items as per CGPWD SOR 2015

SN	Description	Unit	Total Qty.
1	2	3	4
1	Boring, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in cement concrete 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size), to carry a safe working load, excluding the cost of steel reinforcement but including the cost of boring with auger by manual means and making one bulb using suitable bulb enlarging tool by MANUAL MEANS with all instruments and arrangements required for boring true to vertical line etc. all complete. (Length of pile for payment shall be measured up to the bottom of pile cap): 300 mm dia piles (15.5.2, pg-143)	R mtr.	6587
2	Extra for providing additional bulb in under reamed piles, under specified dia using necessary bulb enlarging tool and by MANUAL MEANS (Only the quantity of extra bulbs are to be paid). 300 mm dia piles (15.6.2/143)	No.	159
3	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff up to 1.5 m lift and lead up to 50m (at least 5m away from the excavated area), including dressing and leveling of pits.	Cum.	4424
4	Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. (1.19/11)	Cum.	12450
5	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. (1.18/11)	Cum.	3318.4
6	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works up to plinth level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size). (3.1.2/23)	Cum.	372
7	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works up to plinth level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (3.1.3/23)	Cum.	710
8	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works up to plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size). (3.2.1/23)	Cum.	3115
9	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level. (2.1.1/16)	Sqm.	13723
10	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Thermo-Mechanically treated bars FE 500D (3.12.2/24)	Kg	195503
11	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand) (7.5.4/45)	Cum.	902.44
12	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand) (11.2.3/103)	Sqm.	689
13	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand) (11.3.3/103)	Sqm.	2442
14	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand) (11.3.4/103)	Sqm.	10513
15	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete. Size 800x800 mm (12.13.2/112)	Sqm.	923.88



SN	Description	Unit	Total Qty.
1	2	3	4
16	Providing and laying rectified ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. Size above 300x300mm (12.10.2/112)	Sqm.	738
17	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall 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 matching pigment complete. Size upto 200x300 mm (12.7.1/111)	Sqm.	1223
18	Providing wood work in frames of doors, windows, clerestory windows and nother frames wrought framed and fixed in position. Sal, bijasal, benteak, khair, haldu (8.1.2/54)	Cum.	1
19	Providing and fixing 40mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area) Bijasal, benteak, khair, haldu (8.6.2/55)	Sqm.	38.07
20	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 6 mm thickness (9.51.3/85)	Sqm.	74.81
21	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: On 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) (14.16.1/133)	Sqm.	9241
22	Providing and fixing in position chain linked steel wire fabric made of 4 mm dia G.I. wire of required width in mesh to concrete/ wooden/ angle iron posts including securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins etc., complete. Aperture 50x50mm (9.43.1/84)	Sqm.	1264
23	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer. (9.15/81)	KG	65248
24	Supply and fixing of pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (10.11/91)	Sqm.	650
25	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint (14.22.1/134)	Sqm.	679
26	Providing and fixing laminated glass sheet of 8.76mm thickness in approved sizes on aluminium frame work on face of building. (Frame to be paid for separately). (9.62/87)	Sqm.	51.51
27	Supplying and fixing rolling shutter of approved makes made of 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 arrangement complete but excluding the cost of top cover and spring. 80x1.25mm M.S. Laths (9.27.1/83)	Sqm.	79
28	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above) Granite stone grey/pink (15.45.1/118)	Sqm.	232
29	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc. complete. SS Grade 304 (9.57.2/86)	KG	5853



<b>SN</b>	<b>Description</b>	<b>Unit</b>	<b>Total Qty.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
30	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. MS tubular frames (9.16.3/81)	KG	1350
31	Providing and laying integral cement based treatment for water proofing on the vertical surface at all levels by fixing 22 mm to 25mm thick rough Kota stone slab with cement slurry mixed with water proofing compound conforming to IS:2645 with a gap of 20mm (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 20mm thick cement mortar 1:3 (1 cement : 3 coarse sand) with neat cement punning mixed with water proofing compound complete. (4.2/27)	Sqm.	2200
32	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm. Pigment Coloured (rubber mould) precast interlock concrete blocks (12.65.2/120)	Sqm.	3912
33	Extra work as per CGPWD SOR 2015 (Like- Plumbing, House Electrical work, LT Electrical work, Painting etc.)	Amount in Rs. (LS)	50,00,000

## B. For Landscaping and horticulture work

**Supply And Plantation of plants (Including different varieties of Seasonal plants), Different types of Shrubs and Supply and Laying of Carpet/Selection grass as per the intimations of CREDA and as per following scope:**

### Detailed scope of work:

- A. The following activities are required to be carried out for the Maintenance of all plants including trees, shrubs and creepers etc. to be planted in the New Urja Siksha Udhayan, Village-Pandar;
  - i. Watering of the plants:-Daily/As per requirement/weather condition.
  - ii. Hoeing and weeding of plants to be done at least one a month, which may be increased to twice a month depending upon the infestation of weeds.
  - iii. Dates for hoeing shall be related with dates of watering i.e. one or two days before or after watering.
  - iv. Cleaning of plant channels.
  - v. Making plants basins around plants minimum of 60cm dia. and 25cm deep circular.
  - vi. Replacement of any casualties shall be done within week which shall be paid by the contractor.
  - vii. Mulching of plants to be done with the help of cut grass or other plant leaves, saw dust or bark of trees or as per instruction of consultant horticulture within the working area whenever available.
  - viii. Application of farm yard manure @10.00 kg per tree and @ 5.00 kg per shrub or climber, urea @ 150.00 gm per plant during the month of February and July along with chloropyriphos @ 20.00 ml per plant manufactured by govt. departments while any other agrochemical depending upon the need shall be arranged by the contractor at his own cost.
  - ix. Cleaning of the water channels as per requirement.
  - x. Trimming and pruning of plants whenever required i.e. once or twice a year or as instructed by the consultant horticulture.
  - xi. Cutting of grass as and when required.
  - xii. Collection of cut grass, pruned branches of naturally fallen/broken branches etc. At the collection point fixed by the CREDA.
  - xiii. Management of source of water, to avoid its misuse or pilferage and distribution where ever required shall be arranged by the contractor at his cost its noncompliance shall invite penalizing. Water is supplied direct to plants through piped.
  - xiv. Any other horticulture operation for proper growth of plants.

Plantation is to be carried out by the contractor from the date of allotment. The number of plants may be increased or decreased as per site requirement. The plants shall be supplied and planted by the contractor at his cost.

### **Following seasonal plants to be supply & planted by firm:-**

Sr. No.	Supply & Plantation work of Botanical plant (Supply & plantation work)	Size/Unit in Inch	QTY. Nos.
1	Stachytarphata Indica	7x8	270
2	Murraya Exotica	7x8	120
3	Cordyline garden party	7x8	50
4	Dracena Mahatma	7x8	50
5	Ixora duffy pink	7x8	40
6	Jatropha pandurifolia	7x8	400
7	Allamanda nerifolia dwarf	7x8	400
8	Hibiscus dwarf mixed colors	8x10	180
9	Heliconia psittacorum	7x8	610
10	Canna indica dwarf	7x8	180
11	Hamelia patens	7x8	60

Sr. No.	Supply & Plantation work of Botanical plant (Supply & plantation work)	Size/Unit in Inch	QTY. Nos.
12	Mussaenda frondosa	7x8	210
13	Codiaeum variegatum "rainbow"	7x8	80
14	Calliandra brevips	7x8	100
15	Tecomaria capensis	7x8	105
16	Rhapis excelsa	13x13	30
17	Chrysalidocarpus lutescens	13x13	300
18	Caesalpenia pulcherima	15x16	22
19	Jasmiunum sambac	7x8	220
20	Ixora singaporensis	7x8	50
21	Canna red	7x8	60
22	Canna Yellow	7x8	60
23	Hymenocalis littoralis	7x8	100
24	Tebernemontana coronaria	7x8	50
25	Mynea erecta	7x8	60
26	Mussaenda erythrophylla	13x13	15
27	Cuphea white	7x8	1000
28	Alpenia purpurea	7x8	90
29	Heydichium coronarium	7x8	60
30	Stralitzia reginae	15x16	80
31	Tabernemontana variegated "Dwarf"	7x8	180
32	Hibiscus rosa-sinensis	7x8	170
33	Wadelia trilobata	7x8	25824
34	Samanea saman	21x21	2
35	Bauhenia purpurea	21x21	6
36	Tabebuia argentea	21x21	6
37	Erythrina variegata	21x21	12
38	Terminalia arjuna	21x21	1
39	Couropita guianensis	15x16	1
40	Lagerstromia speciosa	21x21	11
41	Terminalia bellerica	8x10	5
42	Plumeria alba	21x21	76
43	Shorea robusta	15x16	10
44	Millingtonia hortensis	21x21	22
45	Spathodea companulata	21x21	3
46	Cassia fistula	21x21	12
47	Bauhenia blackeana	21x21	14
48	Delonix regia	21x21	7
49	Peltophorum pterocarpum	21x21	7
50	Michelia champaca	21x21	22
51	Tabebuia rosea	21x21	7
52	Mangiera indica	21x21	4
53	Aegle marmelos	13x13	13
54	Morus indica	15x16	5
55	Wendlandia heynei	8x10	2
56	Dalbergia sisoo	21x21	4
57	Crataeva adansonii	8x10	3
58	Desmodium oojeinense	8x10	2
59	Syzigium cumini	21x21	4
60	Haldina cordifolia	8x10	3

Sr. No.	Supply & Plantation work of Botanical plant (Supply & plantation work)	Size/Unit in Inch	QTY. Nos.
61	Chloroxylon sweitenia	8x10	3
62	Ficus triangularis variegeted	21x21	320
63	Vernonia creeper	7x8	150
64	Spathyphyllum	7x8	150
65	Monstera deliciosa	13x13	50
66	Caladium charm	7x8	60
67	Cuphea hyssopifolia	7x8	150
68	Calathea zebrina	8x10	40
69	Hemigraphis colorata "exotica"	7x8	100
70	Water lily	8x10	50
71	Duranta repens	7x8	200
72	Hamelia patens	7x8	600
73	Hibiscus dwarf mixed colors	8x10	370
74	Chrysalidocarpus lutescens	8x10	25
75	Cordyline garden pary	7x8	25
76	Cordyline terminalis mahatma	7x8	25
77	Allamanda nerifolia dwaff	7x8	150
78	Jatropha pandurifolia	7x8	580
79	Termilalia chebula	8x10	4
80	Millingtonia hortensis	21x21	22
81	Schleichera oleosa	8x10	1
82	Pterospermum acerifolium	21x21	5
83	Dillenia pentagyne	8x10	5
84	Hardwickia binnata	8x10	5
85	Ailanthus excelsa	8x10	5
86	Terminalia arjuna	21x21	2
87	Mitragyna parviflora	8x10	2
88	Madhukamini	13X13	1743
89	Supply & Laying of Carpet/Selection grass of Superior Quality (well developed)	Sqm.	6500

**Variety/Type of plant may be change by the CREDA as per site condition and Requirement. The following activities are required to be carried out;**

- i. Digging of pit 75x75x75 cm deep for trees and 60x60x60 cm for shrubs and creepers.
- ii. Supply, distribution and mixing of farm yard manure @ 10.00kg for trees and 5.00kg for shrubs and climbers.
- iii. Refilling of pits.
- iv. Supply and transportation of plants from the nursery to the planting site.
- v. Planting of plants.
- vi. Watering before and after planting.
- vii. Staking of plants as per requirement.
- viii. Treatment of plants for protection from termites with chloropyriphos @ 20 ml per tree, shrubs and creepers.
- ix. Making plant basis around plants minimum of 25cm deep and 60x60cm feet.
- x. The minimum acceptable height or tree will be 120-150 cm with minimum caliper diameter of 2.5cm at a point on the trunk 15cm above natural ground being grown in polythene bags with well-established roots not freshly replanted at ground.
- xi. In all the shrubs and creepers the minimum acceptable size after pruning with branches in normal positions will be a minimum height of 2feet in polythene bags with well- established roots but not freshly replanted from ground.
- xii. The contactor shall be responsible for the maintenance of the new planted trees, shrubs and creepers and shall hand over the plants in healthy condition to the university.
- xiii. Any other horticulture operation for proper growth of plants.



**Provisional terms and conditions:-**

1. For plant casualties, a penalty of Rs. 100.00 per plant shall be deducted.
2. The contractor shall be bound to declare his Manpower along with authorized identity, no an unidentified person on his behalf shall be allowed to enter the campus.
3. **All machinery** i.e. tractor, tanker, trolley, rotavator, ploughs ditcher, leveler implements, garden tools and accessories shall be arranged by the contractor at his own cost with their maintenance at his own cost.
4. **Security as well as any maintenance** of the Manpower, materials and machines arranged by the contractor shall be his responsibility at his cost while CREDA shall not be bound for any loss occurred.
5. Maintenance of all plants and lawns during the contract shall be the responsibility of the contractor for any defect to replace dead, dried, damaged or broken trees, shrubs or any other plant material within one week.
6. **Site Register** shall be managed by the contractor for the employment of Manpower and machinery to record their daily progress.
7. Care should be taken only to remove grasses or monsoon wild growth. No tree/shrub is to be removed during execution of work.
8. Site Inspection Book shall be maintained by the contractor at site office. All instructions issued by the authorized persons of CREDA shall be recorded and the same shall be executed by the contractor within the given time.
9. The contractor may bring any material inside the campus for its utilization with proper gate entry with the security personnel but can't take any material outside the EEP area without the written permission of CREDA.
10. No sale, exchange or borrowing of any material i.e. water, plants, cut material of grass, plants or other any material is allowed.
11. **Water source** for the project is ground water but is proper lifting and distribution to each and every plant shall be the responsibility of the contractor at his own cost including all men, materials and accessories.

**Site visit:-**

Before submitting Tender, the contractors shall visit and examine the site and satisfy themselves about all the prevailing working conditions and no claim what so ever shall we entertained later on. For fixing up appointment to visit the Park, interested party may seek appointment on Mobile no. 9977929070 (Mr. T.R. Dhruw, District Incharge, CREDA Durg. Office Address- Behind Pt. Madan mohan malviya Primary school, Deepak nagar, Durg) send E-mail: [credadurg@gmail.com](mailto:credadurg@gmail.com)

## C. Irrigation work

Complete Specialized, Design specific Irrigation system for all Plants/Trees/Grass etc. at Energy Education Park, Village - Pandar, Patan, District - Durg (C.G.) as per the specification of CREDA and as per following scope:

**Work:** Complete irrigation with drip system and popup sprinkler system for all plants including trees, shrubs and creepers, grass etc. at campus of Energy Education Park, Village - Pandar, Patan, District -Durg (C.G.). The following Items should require for the irrigation system:-




SN	Particular	Make/model	Units	Qty.
<b>1.00</b>	<b>PIPE WORK</b>			
	Providing, laying & jointing in position PVC/ HDPE pipe conforming to ISI standard and suitable for the respective working pressures with all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc. jointing as per manufacturers' instruction,			
1.1	PVC pipe 90mm-6 kg/cm2	As per ISI Reputed make	Rm	456.00
1.2	PVC pipe 75mm-6 kg/cm2		Rm	270.00
1.3	PVC pipe 63mm-6 kg/cm2		Rm	528.00
1.4	PVC pipe 50mm-6 kg/cm2		Rm	588.00
1.5	PVC pipe 40mm-6 kg/cm2		Rm	1830.0
1.6	Earth work excavation and refilling 300x450mm		Rm	
<b>2.00</b>	<b>SPRINKLERS &amp; ACCESSORIES</b>			
2.1	Providing & fixing of Rotatory Pop up having colour coded <b>MP Rotator nozzle</b> with <b>multiple stream water spray</b> capable of covering 2.5m- 10.7m with <b>Matched Precipitation Rate</b> .The Spray Head body shall be constructed of heavy-duty, ultraviolet resistant plastic and stainless steel spring with multifunctional wiper seal with small exposed cover.	As per ISI Reputed make	No	52.00
2.2	Providing & fixing of <b>PS- Ultra, Pop up spray head bodies</b> , having features an encased plastic 'cage' to provide unmatched resistance to grit,with high efficiency <b>ADJUSTABLE</b> nozzle capable of covering 1.2M - 5.2m at 1.0 - 2.1 Bars, pressur. Additionally Two-piece ratchet mechanism, Features is Precision controlled flush at pop-down clears debris from unit, Construction of time-proven UV resistant plastic.		No	451.00
2.3	Providing & Fixing of <b>SJ- 512, 1/2"</b> Pop up Connecting <b>Four Elbow Swing joint</b> Assembly. The fittings shall be made of UV resistant thermo plastic.		No	503.00
2.4	Providing and fixing of <b>PP service saddle</b> of varying size.1/2'		No	503.00
<b>3</b>	<b>DRIP LATERAL AND ACCESSORIES</b>			
3.1	Supply and fixing of flexible Blank tubing and resistance to UV damage and algae growth black in colour 16 mm size. With all fittings and accessories.( Dripline 16 mm 50 cm 3.8 lph inline lateral)	As per ISI Reputed make	Rm	2400.0
3.2	Supply and fixing of flexible Blank tubing and resistance to UV damage and algae growth black in colour 16 mm size. With all fittings and accessories.( Plain Dripline 16 mm plain lateral)		Rm	800.00
3.3	Supply and fixing of PC drippers 8lph		Rm	2000.0
3.4	Supply and Fixing Rod Comes Pre -Bent or plastic lateral stack to Staple Distribution Tubing , Drip Line to Finished Grade.		No	320.00
<b>4.00</b>	<b>VALVES &amp; ACCESSORIES</b>			
4.1	Providing and fixing of PVC Ball Valve, security pivot to maintain lever in space, double water tight joint, direct injection stem non mechanical ,with a base which permits maximum penetration into the valve of size 63mm.	As per ISI Reputed make	No	13.00
4.2	Providing & fixing of Isolation Valve in mainline for bypass and flow diversion of approved quality		No	2.00
4.3	Providing & fixing of a double acting 1" Air release valve, The Air release valve shall be capable of both releasing and admitting air from and into the line. The working pressure shall be 5 bar. Including service saddle and riser assembly.		No	3.00
4.4	Providing & fixing of 12" Rectangular Valve Box with green lid and corrugated structure with unique shovel access slot and bolt hole knockout		No	13.00
4.5	Providing & fixing of 6"Round box with green lid and corrugated structure with unique shovel access slot and bolt hole knockout		No	8.00
4.6	Providing & fixing of Brass Quick coupling valve made up of solid brass with locking cover corrosion resistant and stainless steel spring. Including service saddle and riser assembly.		No	8.00
4.7	Providing & fixing of Brass Key threads into top of QCV to provide water access And Brass Swivel Elbow		No	3.00
<b>5.00</b>	<b>FILTRATION UNIT</b>			
5.1	Providing & Fixing of DISC FILTER- with capacity matching pump design flow having an suitable inlet connections , to create a helical effect in the incoming water ,spinning particulate in suspension away from the filtering element and so minimizing cleanings frequency ,3/4" outlet for flushing at bottom of filter & maximum working pressure of 10 Bars. with pressure gauge.	As per ISI Reputed make	No	1.00
<b>6.00</b>	<b>PUMPING UNIT</b>			
6.1	Providing & Fixing of (Mono block/Open well submersible) pump set of having discharge <b>6.3 lps@45 mtr</b> head . suitable for pump set having panel box and fixed along with following accessories starter ,start / stop push buttons , Ammeter, Voltmeter , Indicating lamps, MCB , with cable, etc.	As per ISI Reputed make	No	1.00
6.2	Providing and fixing of control panel suitable for pump set having panel box and fixed along with following accessories starter ,start / stop push buttons , Ammeter, Voltmeter , Indicating lamps, MCB , with cable, etc.		No	1.00
6.3	Providing & Fixing of ,Suction ,Delivery & Header Pipe		No	1.00
6.4	Providing & fixing of <b>control Valve /Butterfly Valve</b> in mainline for bypass and flow diversion of approved quality 3"		No	1.00
6.5	Providing & fixing of <b>Non Return Valve</b> to prevent back flow 3"		No	1.00
6.6	Providing and fixing of <b>Pressure Release Valve 2"</b>		No	1.00



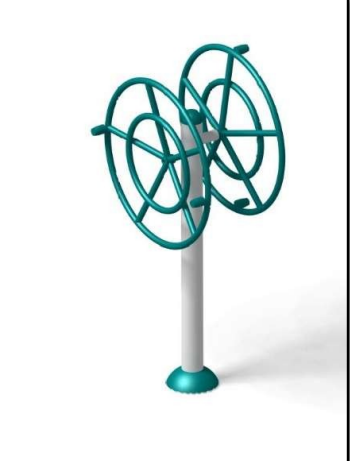
**D. NON-SOR Items**

SN	Particulars	Unit	Qty.
1	Supply, fabrication, fixing & installation of 150mm X 150mm X 6mm MS square column pipe, painted in approved color (Check size and fixing detail with structural consultant) (26.4kg./m)	Kg.	1400
2	Supply, fabrication, fixing & installation of 35mm X 35mm X 3.2mm MS square column pipe, pergola member fixed to beam frame painted in approved color (2.99 kg./m)	Kg.	1500
3	Supply, fabrication, fixing & installation of 50mm X 100mm X 3.2mm MS square column beam painted in approved color (7.01kg./m)	Kg.	4500
4	Providing and fixing Rubber flooring providing and laying 24mm rubber slabs with 100mm PCC bed for leveling the ground.	Sqm	300
5	Providing and fixing curb stone (300*100mm) (H*B)- with 1:6 cement mortar bed.	Rm	2000
6	Providing & Fixing Direction and Place Identification signs up to 0.9 sqm size board. (Providing and erecting direction and place identification retro reflectorized sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60cm, 60cm below ground level as per approved drawing)- 60nos.	sqm	50
7	Internal pathway- Providing and fixing pebble stone paved pathway.	sqm	187
8	Supplying, fixing and installation of glass mosaics with fixing solution of superior quality of minimum thickness 04 mm and the chip size 25*25 mm	Sqm	4000
9	Providing & Fixing superior quality Natural River Sand Stone	Kg.	3000
10	Providing, Fixing and laying of Synthetic/PVC sports flooring surface, moderate varicose and foam buffer of 5 Layers minimum thickness 50mm, multipurpose sports flooring work with installation.	Sqm.	1500
11	Providing & Fixing Approved Size & Shape Sculptured statue of minimum size 5*3*2 ft (L*H*B) made up of superior quality Marble (Small)	no.	10
12	Providing & Fixing Approved Size & Shape Sculptured statue of minimum size 10*5*3 ft (L*H*B) made up of superior quality Marble (Big)	no.	1



**E. Open GYM equipments:-**

Supply, installation, fixing &amp; testing of various types of open GYM equipments (Excluding Civil work):-

SN	Name Of Equipment & Qty.	Dimensions	Specification
1	 <p><b>Sky Walker User: 2 Persons</b> QTY- 01 no.</p>	1700 mm (L) X 830 mm (W) X 1650 mm (H)	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class" medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80- 120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Rubber:-</b>High quality rubber should be used for the handle grips.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and press fitted for smooth rotation , and does not require relubrication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less grinded finish for life long durability.</p> <p><b>Footrest :-</b> All forests are of aluminum casted material of grade LM-26.</p> <p><b>Pipe end close cap, bearing cap :-</b> SS 304 grade Should be used for protection of pipe end closing duly riveted, bearings and bushes open end closed.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and CE certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>
2	 <p><b>Air Walker User: 1 Persons</b> QTY- 01 no.</p>	1080 mm (L) X 380 mm (W) X 1210 mm(H)	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class"medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and press fitted for smooth rotation , and does not require relubrication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less grinded finish for life long durability.</p> <p><b>Footrest :-</b> All foorests are of aluminum casted material of grade LM-26.</p> <p><b>Pipe end close cap, bearing cap :-</b> SS 304 grade Should be used for protection of pipe end closing duly riveted, bearings and bushes open end closed.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and CE certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>
3	 <p><b>Sit Up Board User: 2 Person</b> QTY- 01 no.</p>	1700 mm (L) X 450 mm (W) X 900 mm (H)	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class" medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Seat :-</b> High quality fiber reinforced plastic (FRP) is used with thickness of 3-4mm which is UV stabilized.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and CE certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>

4		<p>1000 mm (L) X 600 mm (W) X 1150 (H)</p>	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class" medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Seat &amp; Backrest :-</b>G.I. Seat of size 330mm X 300mm X 1.8mm thickness and deep drawn and pressed in tools and dies to have uniform radius of 20 mm with no sharp edges.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and press fitted for smooth rotation , and does not require relubrication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less finish for life long durability.</p> <p><b>Pipe end close cap, bearing cap:-</b> SS 304 grade Should be used for protection of pipe end closing, bearings and bushes open end closed.</p> <p><b>Base Cover :-</b> High grade PPCP material is used for base cover duly bolted.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and CE certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>	
<p><b>Chest Press User: 2 Persons</b> QTY- 01 no.</p>	5		<p>1900 mm (L) X 140 mm (W) X 430 mm (H)</p>	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class "medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and 30206 bearings are used with metallic seal, press fitted for smooth rotation , and does not require relubrication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less grinded finish for lifelong durability.</p> <p><b>Pipe end close cap :-</b> SS 304 grade Should be used for protection of pipe end closing duly riveted.</p> <p><b>Base Cover :-</b> High grade PPCP material is used for base cover duly bolted.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and ce certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>
<p><b>Seating Standing Twister User: 2 Persons</b> QTY- 01 no.</p>	6		<p>900 mm (L) X 600 mm (W) X 1790 mm (H)</p>	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class" medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Handle knob :-</b>High quality nylon material should be used for the handle grips knob.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and press fitted for smooth rotation , and does not require relubrication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less grinded finish for lifelong durability.</p> <p><b>Pipe end close cap, bearing cap :-</b> SS 304 grade Should be used for protection of pipe end closing duly riveted, bearings and bushes open end closed.</p> <p><b>Base Cover :-</b> High grade PPCP material is used for base coverduly bolted.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and ce certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>
<p><b>Shoulder Builder User: 2 Persons</b></p>				



<p>7</p>	 <p><b>Leg Extension User: 1 Person</b> <b>QTY- 01 no.</b></p>	<p>1000 mm (L) X 600 mm (W) X 800 mm (H)</p>	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class "medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Handle knob :-</b>High quality nylon material should be used for the handle grips knob.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and press fitted for smooth rotation , and does not require republication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less grinded finish for lifelong durability.</p> <p><b>Pipe end close cap, bearing cap:-</b> SS 304 grade Should be used for protection of pipe end closing duly riveted, bearings and bushes open end closed.</p> <p><b>Base Cover :-</b> High grade PPCP material is used for base cover duly bolted.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and CE certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>
<p>8</p>	 <p><b>Push Up Bar : 2 Person</b> <b>QTY- 01 no.</b></p>	<p>1220 mm(L) X 550 mm (W) X 1700 mm (H)</p>	<p><b>Metal:-</b> All pipes make should be Tata or Jindal. All pipes should be of "B" class "medium grade" as per IS1239 are galvanized and zinc dipped. Prior to finishing all welded joints should scalloped as necessary and welded to an approved MIG process is dressed of removing all sharp edges and burrs. All metal parts should be coated using primer for GI up to 40 microns followed by powder coating to the thickness of 80-120 microns. Powder and Primer should be of Ackzonobel make.</p> <p><b>Handle knob :-</b>High quality nylon material should be used for the handle grips knob.</p> <p><b>Bearings and Pins:-</b> All bearings should be of SKF 2RS1 type and press fitted for smooth rotation , and does not require relubrication i.e, maintenance-free ball bearing. Pins should be case hardened and centre less grinded finish for lifelong durability.</p> <p><b>Pipe end close cap, bearing cap :-</b> SS 304 grade Should be used for protection of pipe end closing duly riveted, bearings and bushes open end closed.</p> <p><b>Base Cover :-</b> High grade PPCP material is used for base cover duly bolted.</p> <p><b>Instruction Sticker: -</b> Instruction sticker of size 90mm x 160mm of SS 304 grade plate with 0.8mm thickness &amp; duly riveted on 5mm thick MS plate.</p> <p><b>Safety &amp; Maintenance:-</b>All products of equipment should be tested as per EN16630 safety norms and CE certification must. Maintenance should be followed as per EN 16630 guidelines. The equipment should be withstand for the weight of user more than 100Kg.</p> <p><b>Hardwares :-</b> All Nuts, Bolts, Washers should be of SS 304 material.</p>





**F. Supply, Installation, commissioning & Testing of water Fountain accessories for 72 FT dia electro mechanical fountain with 02 year warrantee & COMC**

TECHNICAL DATA SHEET				
FOUNTAIN DETAIL		Mtr / Sq M/M3	Ft/Sq Ft/ CFT	
Fountain Diameter Req. Min		23.0	72	
Minimum Fountain Depth		0.75	2.5	
Area of Fountain (Sq. M / Sq. Ft)		415.27	4468	
Water Holdup Volume of Fountain ( Cu. M / CFT )		311.45	10740	
Filtration Flow Rate Considering 4 - 6 Hr Circulation time ( Cu M / Hr )		65.00	-	
SN	ITEM DESCRIPTION	MAKE	QTY.	UNIT
<b>SUPPLY &amp; FIXING OF WATER BODY BASIN ITEMS</b>				
1	Drain Grill Size SIZE 300 mm X 300 mm	Certikin UK /Equivalent	2	No
2	FRP Gratings Cover For Fountain Pump	FKC India/ Equivalent	5	Set
3	Wall Inlet 50mm	AquatixUSA/Equivalent	8	No
4	Vacuum Fitting	Astralpool/ Equivalent	4	No
<b>SITC OF WATER BODY FILTRATION SYSTEM</b>				
5	900 Dia Filter + 2" MPV + Filter Media with Ionizer to maintain Water clarity without Chemical Dosing system with control panel	Certikin/Equivalent	3	No
6	Filter Pump Capacity 25 Cu / Hr Flow Rate @ 10 MWC with starter panel (1 No. W+1 No. SB )	Certikin / Equivalent	4	No
<b>SUPPLY &amp; DEMO OF MAINTENANCE ACCESSORIES</b>				
7	Metallic Vacuum Head - Shark Series	Astralpool/Equivalent	1	No
8	Aluminum Handle 15 FT	Certikin / Equivalent	1	No
9	Vacuum Hose 12 m 1.5"	FKC India/Equivalent	1	No
10	Cleaning Curved Brush	Certikin / Equivalent	2	No
11	Deep Bag Net	Certikin / Equivalent	2	No
<b>SUPPLY &amp; FIXING OF FOUNTAIN NOZZLES</b>				
12	4" High Jet Effect Nozzle	Aquascape / Equivalent	1	No
13	Heighted Jet 2" Effect Nozzle	Aquascape / Equivalent	8	No
14	Ring Effect fountain - 18 Ft Dia 3/4" Adj. Jets - 140 No.	Aquascape / Equivalent	1	Set
15	Mist JET Effect fountain 12 Ft Dia 1/2" Jets - 80 Nos.	Aquascape / Equivalent	1	Set
16	Ring Effect fountain - 6 Ft Dia 3/4" Adj. Jets - 40 No.	Aquascape / Equivalent	10	Set
<b>SITC OF FOUNTAIN / WATER FEATURE PUMP &amp; ELECTRICAL CONTROL PANEL</b>				
17	Submersible Pump with Starter Panel 60 Cu M / Hr @ 14 MWH for High Jet + strainer ( 2 No. W + 1 No. SB )	KBL/Equivalent	3	Set
18	Submersible Pump with Starter Panel 100 Cu M / Hr @ 8 MWH for Club Entry Fountain ( 5 No. W + 1 No SB )	KBL/Equivalent	6	Set
19	Electrical Panel For Pumps complete with Ammeter Volt meter, color coded wiring complete in all respect	Indegenous/ Equivalent	1	No
<b>SITC OF WATER BODY LIGHTING &amp; ELECTRICAL CONTROL PANEL</b>				
20	12 W / 24 V LED Lights ( RGB ) with Power supply & Control Panel	FKC/Eltron/Equivalent	150	Set
<b>ALL PLUMBING &amp; ELECTRICAL WORK</b>				
21	All Fountain / Filter system Plumbing in Sch 40 uPVC / High pressure rPVC piping for pressurized lines & 6 PN RPVC for over flow lines including all Fitting, control valves, pipe supports assuming maximum distance of plant room from Fountain bodies is 6 Mtr	Supreme / Astral/ Finolex / Equivalent	1	Lot
22	Supply, Installation, Testing & commissioning of All associated solenoid valves (Qty-1 Set. as per requirement), associated Cable work , PLC for pump & Light Panel + VFD + HMI) etc.	LS	1	Job

**SCHEDULES OF EXCLUSION:**

1. Scaffoldings, Crane, excavation, filling, core cutting, breaking of wall , civil works ( if needed ) Pump and filter foundations in filter room / basin ( if needed )
2. Single/three phase power supply through MCB inside the filter room from mains
3. Water connection for commissioning of Water Body and Drain out line from plant room to drainage. Operator during commissioning and regular operation and maintenance of water feature.

**G. Supply, Installation, commissioning & Testing of KOI Pond accessories for 6000 cu.ft., with 02 year warrantee & COMC**

S N	Particular	Make	Unit	Qty.
1	<b>SITC of PLUMBING CONNECTORS</b> Connectors made in UPVC class Sch 40 as per IS ASTM 1785 of the following sizes and suitable to be fixed in the pool walls and floor raft at the time of construction of Aquarium 1 ,balancing tank, fresh water overflow inlet, b/tank overflow to main drainage MOC: UPVC sch 40	Supreme / Astral	set	1
2	<b>SITC of MAIN DRAIN FOR WB</b> ABS Circular main drain 200 mm dia with main frame screwed on base frame duly groutable on the pool bottom deepest part. The drain plate should be able to collect a water volume of not less than 25 M3/hr @ a drain velocity of .5 m/sec, MOC: ABS	Certikin UK / Equivalent	no.	4
3	<b>SUPPLY &amp; FIXING OF OVERFLOW GRATINGS - ABS (2 M Set X 10 No. )</b> Overflow gratings in FRP size 195mm X 32 mm/UV resistant to be fixed on straight as well as cured channels . Corner supports in SS 304 to be supplied for fixing at pool corners	Certikin UK / Equivalent	mtr	20
4	<b>SUPPLY &amp; FIXING OF FILTERED WATER FLOOR INLET</b> Concrete floor inlet with SS giving flow of 2.5 m3/hrwith 1" male threaded connection	FKC india/ Equivalent	no	15
<b>SITC OF AQUARIUM WATER TREATMENT SYSTEM</b>				
5	<b>MECHANICAL FILTER PLANT</b> Totally anti-corrosive Filter Plant 800 mm dia manufactured in fiber glass. Complete with pressure gauge, manual air vent, water purge , drain out. The unit giving a flow of 18.5 M3/hr @ 37.5M3/Hr/M2 velocity Maximum working pressure 2.5 Bar	Certikin UK / Equivalent	no	2
6	<b>MULTI PORT VALVE</b> Body, cover and handle in injection-moulded ABS Plastic, Distributor in PPO, Sight glass in Polycarbonate, Security clip in the cover, Star gasket in EPDM in the distributor to prevent the accumulation of dirt. It is possible to change the gasket if necessary , Maximum working pressure: 3,5 kg/cm2	Certikin UK / Equivalent	set	2
7	<b>QUARZ FILTER MEDIA</b> Special graded filter media made with selected Quartz stone & processed to make suitable to use as filter media 1. Quartz Filter Media Grade 1 ( 16/32 mesh size ) 2. Quartz Filter Media Grade 1 ( 8/16 meshsize )	Superior quality	Kg Kg	900 150
8	<b>BIO FILTER PLANT</b> Totally anticorrosive Filter Plant 800 mm dia manufactured in fiberglass. Complete with pressure gauge, manual air vent, water purge , drain out. The unit giving a flow of 18.5 M3/hr @ 37.5 M3/Hr/M2 velocity Maximum working pressure 2.5 Bar	Certikin UK / Equivalent	no	2
9	<b>MULTI PORT VALVE - SIDE MOUNTED</b> Body, cover and handle in injection-molded ABS Plastic, Distributor in PPO, Sight glass in Polycarbonate, Security clip in the cover, Star gasket in EPDM in the distributor to prevent the accumulation of dirt. It is possible to change the gasket if necessary, Maximum working pressure: 3,5 kg/cm2	Certikin UK / Equivalent	set	2
10	<b>BIO FILTER MEDIA</b> Bio filter media made with highly porous media processed to make suitable to use as Bio filter media Bio Media Grade 1	Astral Pool Spain/ Eq.	kg	1000
11	<b>FILTRATION PUMP</b> Robust High efficiency Pump with Plastic Body Pump , 2 HP with large hair & lint strainer ( 2 No. W + 1 No. SB )	Astral Pool Spain / Certikin UK	set	3
12	<b>OZONE GENERATOR+OXYGEN CONCENTRATOR-15 GM</b> Tube type , Closed Loop Ozonator , Air Cooled, 30 Gm / Hr capacity ,Ventury Injector , NRV, Water trap, Static Mixture, Air Pump with Flow meter & Air Filter , 5 LPM Oxygen Concentrator	FKC India / Equivalent	set	1
13	<b>SITC OF SMART ELECTRIC CONTROL PANEL</b> Electric Starter Panel in 16 Gauge Powder coated CRCA Sheet with 1 No. incoming MCB, 1 No. Starter with on / of indicating lamps for each filter pump, 1 no. each push button start for Ozonator & Ionizer , 1 No. voltmeter with selector switch,1 No. ammeter , all internal wiring from incomming main etc.complete, All material / make used will be of standards as per BIS 1. Low / High voltage Protection 2. Dry run protection 3. Timer based operation	FKC India / Eq.	no	1
14	<b>OLIGODYNAMIC IONIZER UNIT</b> Cu Ag Ionizer to for prevention of unwanted Algae, fungi formation with Control Panel suitable for 25 Cu M / Hr Flow	FKC India / Eq.	set	1
15	<b>SITC OF WATER BODY POOL LIGHTING SYSTEM</b> 6 W / 12 V W/W POOL LIGHT 6 W / 12 V Warm Light 3000 K , IP 68 protection for Aquarium	FKC India / Eq.	no	60



S N	Particular	Make	Unit	Qty.
16	<b>LIGHT PANEL</b> Powder coated CRCA Sheet enclouser with MCB , power supply & transformer complete in all respect with colour coded wiring, Toggle switch for each light complete in all respect.	FKC India / Eq.	no	2
17	<b>SITC OF PLUMBING AND ELECTRICALS RELATED WITH SWIMMING POOL (EXCLUDING EXCAVATION &amp; BACK FILLING)</b> Supply, Fixing, testing of UPVC schedule 40mm pipe conforming to ASTM 1785 including all fitting such as bends, elbows, reducers, tees, unions, couplers, tail pieces, rubber gaskets, GI nut bolts etc., cost shall be inclusive of for providing fabricated supports as per specifications & making good. Pipes shall be connected to pumps, equipments, valves etc. through tail piece flanges or unions to the satisfaction of EIC.			
i	<b>MAIN DRAIN PIPE LINE</b> RPVC pipe (63 mm 6 PN ) will be connected to overflow chamber with control valve )	Supreme/ Finolex/ Astral	mtr	24
ii	<b>BOTTOM DISTRIBUTION PIPE LINE</b> Flexible Hose pipe ( 2.5" ) for circular water body		mtr	40
iii	<b>FILTER ROOM PIPE LINE</b> uPVC pipe (2.5") Sch 40		mtr	20
iv	<b>RETURN INLET PIPE LINE</b> uPVC pipe (2.5") Sch 40		mtr	20
v	<b>OVERFLOW PIPE LINE</b> RPVC 160 MM OD 6 PN		mtr	60
18	<b>FOOT VALVE TO SUIT</b> 63 mm (2") PUMP SUCTION LINE 63 NB	Kirloskar/ Normex / Zoletto	no	3
19	<b>NRV WITH ACEESORIES COMPLETE</b> (Pump Delivery) 65 NB / 2.5"	Certikin UK /Cepex / Eq.	no	3
20	<b>SLUICE VALVE FOR DRAIN LINE WITH GI OPERATING KEY&amp; HANDLE</b> 63 NB/2"	Kalpna/ Utam/Kartar	no	3
21	<b>U/W LIGHT &amp; FILTER ROOM CABLE &amp; CONDUITING</b> Supplying, laying and commissioning of PVC insulated and sheathed power cable conforming to IS:1554 part-I 1988 as per specifications laid and in 3/4" BSP pvc conduits 2 core unarmored flexible copper cable 2.5 Sq.mm for UW lights	Finolex/ Havell's/ BCH	mtr	800

### Details of KOI Pond:-

PARTICULAR	UNIT	Qty	UNIT	DETAIL
Area of Water Body (100 F X 20 F ) Avg.	Sq. Ft	2000	Sq. M	<b>185.9</b>
Average Water Depth of Water Body	Ft	3	Mtr	0.9
Water Holdup Volume of Water Body 3 & 4	CFT	6000	M3	170.0
Water Holdup Volume of Balancing tank (10' X 10' X 6.5' D )	CFT	216	M3	<b>15.0</b>
Total Water Hold up Volume	CFT	6527	M3	<b>185.0</b>
Proposed Filtration Time / Day ( Considering 4 - 6 times turnover / Day )	Hr	6	-	-
Designed Filtration flow rate assuming turn over: 4 Hrs	M3 / Hr	<b>37.0</b>	-	-
Designed Filtration velocity:	M3/Hr/M2	<b>37.5</b>	-	-

### Note:

The Scope of Work of Supplier shall be to carry out complete Supply, Installation, Testing & Commissioning (SITC) of the items.

### Work

The detailed Scope of Works shall include the following:

1. To carry out complete MEP works in sufficient details as per the schematic architecture plan and submit the same for
2. Complete SITC of Valves, Plumbing Fixtures, Pumps, Lights, Control Panels, pumping system, RPVC & uPVC pipes &
3. Prior to handing over Bidder shall provide proper training to Owner's personnel and also provide a training manual.

### Works are excluded from the Scope of the work

1. Excavation , back filling of any / all Civil Works related with plumbing Execution of Civil Works for RCC Foundation.
2. Single Phase/ 3- Phase Power Supply as & where required.
3. Provision of Fresh water inlet to swimming pool / BT & water outlet to the nearest drain.



## 6. UNDERTAKING BY CONTRACTOR

I/We have read carefully and examined the notice inviting (EoI) cum QCBS tender, schedule, General Rules and terms and conditions of the contract, special conditions, Schedule of Rates and other documents and Rules referred in the(EoI) cum QCBS tender document for the Work.

I/We hereby rates for the execution of the work for CREDA as specified within the time stipulated in the schedule in accordance with all aspects with the specifications, designs, drawings and instructions with such conditions so far as applicable.

I/We agree to keep the (EoI) cum QCBS tender open for Ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions. A sum of Rs. \_\_\_\_\_ is hereby forwarded as earnest money in the form of crossed demand draft. If I/We, fail to commence or complete the work ordered in specified time I/We agree that CREDA shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. The said Earnest Money shall be retained by CREDA towards security deposit to execute all the works referred to in the EoI Cum QCBS Tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.

I/We hereby declare that I/We shall treat the (EoI) cum QCBS tender documents, specifications and other records connected with the work as secret/confidential and shall not communicate information derived there-from to any person other than a person to whom I/We have authorized to communicate the same or use the information in any manner prejudicial to the safety of CREDA/the State Govt.

I/We shall abide to all the laws and shall be responsible for making payments of all the taxes, duties, levies and other Govt. dues etc. to the appropriate Govt. departments.

Our state GST registration no. is \_\_\_\_\_. The PAN No. under the Income Tax Act is \_\_\_\_\_. I/We shall be responsible for the payment of the respective taxes to the appropriate authorities and should I/we fail to do so, I/we hereby authorize CREDA to recover the taxes due from us and deposit the same with the appropriate authorities on their demand.

Dated:

Signature

Place:

Witness

Signature:

Name of Contractor with seal

Name:

Postal Address:

## **7. INSTRUCTIONS TO CONTRACTOR**

1. Execution of work shall be carried out in an approved manner as outlined or where not outlined in the technical specifications in accordance with relevant Indian Standard Specifications/ C.G. PWD SOR 2015 or to the reasonable satisfaction of CREDA.
2. **Bidding Process with EMD TECHNICAL and Price Bid-**  
The sealed (EoI) cum QCBS tender Document Fee, EMD, Technical Bid, forms shall be submitted on the last date 06.04.2021 up to 02:00 PM at the CREDA Head Office, VIP Road, Near Energy Park, Raipur (C.G.), Any EoI Cum QCBS Tender Document received through any other means Like-Speed post, Courier etc. Should be accepted if received within scheduled time.
3. **Submission of Documents-**  
Documents should be submitted in prescribed manner in separate envelopes as follows-
  - A. Main Envelope: Main Envelope must enclosed all A, B, C, D & E envelopes. Bidder Name, Address and status of firms should be clearly written on main envelope.
  - B. Envelope-(A): Bid Fees and EMD.
  - C. Envelope-(B): Financial Eligibility Documents: Net worth & Turn over certificate etc.
  - D. Envelope-(C): Technical Eligibility Documents: Experience certificates, Test Reports etc.
  - E. Envelope-(D): Complete Bid document in original duly seal & signed by authorized signatory on each & every page of the Bid document.
  - F. Envelope-(E): Price Bid.**(EoI) cum QCBS tender Name, Number & Bidder Name must be clearly marked on the top of main envelope of Bid Document which doesn't follow the above format shall be disqualified.**
4. Intended bidder must not be black listed/debarred by any Central/State Govt. Organizations or Departments, PSUs or JVs.
5. Documentary evidence for meeting the eligibility criteria must mandatorily be submitted along with offer.
6. Intended bidder should have GST registration, PAN, PF and ESIC.
7. The bidder should have sufficient number of Technical and Administrative employees required for proper execution of the contract. The applicant should submit a list of these employees stating clearly how they would be involved in this work.
8. Each Bidder must enclose.
  - i. Certified Copies of Income Tax Returns for the last 03 (Three) years together with Balance sheet, Profit and Loss Account statement duly audited by Chartered Accountant including his audit report.
  - ii. Other certificates as required by department.
  - iii. An affidavit that all the information furnished with the pre-qualification document is correct in all respects.
9. **The prices quoted should be F.O.R. Village - Pandar, Patan, District - Durg including GST and royalty, Freight, Loading, Unloading, Insurance and any other incidental charges.**
10. The successful bidder shall not be liable for any penalty for delay or for failure to perform the work for reasons of FORCE MAJEURE such as Act of God, acts of public enemy, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that the successful bidder, shall within 10 (ten) days from the beginning of such delay notice to CREDA in writing of the cause of delay. CREDA shall verify the facts and grant such extension as facts justify.
11. The period of contract will be for 2 financial years (i.e. 2021-22 & 2022-23).
12. The successful bidder shall execute an agreement prior to issue of work order.
13. Any dispute arising out of the contract shall be subject to the jurisdiction of court at Raipur.
14. In case of any dispute referred to the CEO, the decision of CEO CREDA, will be final and binding to the Contractor.
15. All information called for in the enclosed forms shall be furnished against the relevant column in the forms. If for any reason, information is furnished on a separate sheet, this fact shall be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry shall be made in that column. If any particulars/query is not applicable in case of the applicant, it shall be stated as "not applicable". The applicants are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications made by telegram or telex and those received late will not be entertained.
16. **The authorized signatory of the applicant shall sign each page of the document of (EoI) cum QCBS tender and Enclosures.**
17. Overwriting should be avoided. Correction, if any, shall be made by neatly crossing out, initiating, dating and rewriting. All pages of the pre-qualification document are to be numbered. Additional sheets, if any, added by



- the applicant, shall also be numbered by him. they shall be submitted as a bound volume with signed letter of transmittal.
18. The applicant may furnish any additional information, which he thinks necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous or irrelevant information. No information shall be accepted after submission of pre-qualification document unless it is called for by the Employer.
  19. Any information furnished by the applicant found to be incorrect either immediately or later, would render him liable to be debarred from (EoI) cum QCBS tender awarding working CREDA.
  20. **FINANCIAL INFORMATION:** Applicant should furnish the Annual financial statement for the last three years.
  21. **ORGANISATION INFORMATION:**  
Applicant is required to submit the following information in respect of his organization
    - I. (Name & Postal Address, Telephone & Telex Number, E-mail ID, etc.
    - II. Certified copies of original documents defining the legal status, place of Registration and principal places of business.
    - III. Information on any litigation in which the applicant was involved during the last three years, including any current litigation.
    - IV. Authorization for employer to seek detailed references.
    - V. Number of Technical & Administrative Employees in parent company, subsidiary company and how these would be involved in this work.
  22. **AFFIDAVIT:** The applicant should submit an affidavit on stamp paper that all the documents submitted herewith are correct and true in best of my knowledge, duly notarized by the Public Notary. In absence of the affidavit the applicant will disqualify for the work.
  23. **AWARD CRITERIA:** The employer reserves the right, without being liable for any damages or obligation to inform the applicant, to:
    - i. Amend the scope and value of contract to the applicant.
    - ii. Reject any or all of the applications without assigning any reason.
  24. **Analysis of Rate- Bidder should quote their rates considering variation of site conditions, variation in price of different components and keeping the quantum and quality of supply in mind. If CREDA anticipates that rate is abnormally low or high, CREDA shall have liberty to amend the rates or reject the (EoI) cum QCBS tender.**
  25. **Registration of Bidder** –Bidder must have a valid registration certificate as CGPWD “B” Class or Higher Category, Contractor for FY 2020-21.
  26. **VALIDITY:** Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least 180 days from the date of opening. After finalization of this (EoI) cum QCBS tender, the approved rates shall be valid till one year from the date of award; however CREDA shall have liberty to increase or decrease this validity if needed.
  27. **The terms, conditions and specifications:**
    - i. The terms, conditions and specifications mentioned in (EoI) cum QCBS tender document shall be binding on the Bidders and no condition or stipulation contrary to the conditions shall be acceptable. It may please be noted that the Bidder who do not accept terms and conditions stipulated in this (EoI) cum QCBS tender documents, their offers shall be liable to be rejected out-rightly without assigning any reason whatsoever.
    - ii. Each page of (EoI) cum QCBS tender document & enclosures shall be signed by the Bidder and seal affixed. All the pages of the documents issued must be submitted along with the technical offer. In case of any corrections/alterations in the (EoI) cum QCBS tender, the Bidder should attest the same; otherwise (EoI) cum QCBS tender may not be considered.
    - iii. Bidders are also instructed to submit their (EoI) cum QCBS tender in properly arranged manner (with index, proper paging and with flags on important documents). Incomplete, loose, conditional or improperly arranged (EoI) cum QCBS tender will not be accepted.
  28. **CREDA reserves the right-**
    - (i) To reject or accept any or all Bids fully or partly without assigning any reason on the grounds considered advantage to CREDA, whether it is the lowest Bid or not.
    - (ii) To split the quantities against the Bid further for the same items/work. No reason will be assigned by CREDA for this and will be binding on the Bidders.
    - (iii) To increase or decrease of aggregate quantities up to 100 % as per discretion or circumstances.
    - (iv) Due to large quantum of supply & limitation of the time period for completion of the supply CREDA



may take consent from other Bidders if they agree to work on rates standardized by CREDA.

- (v) CREDA may undergo agreement with those eligible Bidders who give consent to work on rates standardized by CREDA and may allocate work to them. Rates approved through this Bid may be standardized for all eligible Bids to work in **Financial year 2021-22/2022-23** and shall be valid till **30-03-2023**. However CREDA reserves right to curtail or extend this period.

**29. Communications-**

- A. All the communication between Bidder and CREDA shall be in writing. Notice sent by Fax or other Electronic means shall be effective on confirmation of the transmission. Notice sent by registered post or speed post shall be effective of delivery or at expiry of normal delivery period as under taken by Postal Service.
- B. Offers through Telegraph/Fax/Emails/Post/Courier or open offers etc. received shall be summarily rejected.

**30. EoI cum QCBS Tender DOCUMENT FEE AND EARNESTMONEY:**

- i. Each Bidder should submit (EoI) cum QCBS tender Document Fee and earnest money in the form of Demand Draft/Pay Order or RTGS/NEFT as mentioned in the **EoI Cum QCBS Tender No.17700 /CREDA/HOR/EEP Patan/2020-21 Date-04.03.2021** in a separate envelope as prescribed at **point no.3 of page no. 8** else they will summarily be rejected and returned. (EoI) cum QCBS tender Document Fee, EMD submitted in any other form e.g. **Cash/Bank Guarantee/FDR/TDR etc. shall not be accepted.**

- ii. **MSME unit registered for manufacturing or service of Items or its components in Chhattisgarh state and public sectors of government are exempted from EMD subjected to submission of valid document.**

**31. Pre-bid Queries-**

A pre-bid Queries shall be submitted on **18.03.2021 up to 05:00 AM** at CREDA HO, Raipur for clarify doubts of the Bidders so that all doubts and confusions are resolved before the (EoI) cum QCBS tender is submitted. Only one authorized representative of the parties who fulfils the primary eligibility conditions as mentioned in NIT and desire to purchase/download the (EoI) cum QCBS tender document shall be allowed. Amendments/clarifications, if any arising during pre-bid queries, shall be uploaded on **www.creda.co.in**.

**32. FORFEITURE OF EARNEST MONEYDEPOSIT:**

It should be clearly understood that in the event of Bidder failing to enter into the agreement in the prescribed format on their quoted rates and also fails to execute assigned works under any Scheme of CREDA, within stipulations, if he is so communicated within the validity period of the offer, the full amount of earnest money will be forfeited and Bidder shall be debarred from future business with CREDA. CREDA's decision in this respect will be final and binding on the Bidder.

**33. PRICE OF SUPPLYITEMS:**

- (I) The Price quoted for all Items F.O.R. destination inclusive of transportation, loading/Unloading, packing, forwarding freight, transit insurance etc. as applicable. The GST shall be indicated (paid) extra as per the GST regulation notification no.24/2018-central tax (Rate) dated 31.12.2018. The prices shall be filled exactly as per **Price Bid** enclosed.

- (II) Any change in GST shall be applicable during the period of contract.

**34. MANDATORY HIRING OF LOCAL ENGINEERS:**

- i. The bidder has to hire competent local graduate experienced field engineers for the various works involved in this EOI cum QCBS tender towards the construction of new Energy Education Park at Village - Pandar, Patan, District Durg. The bidder shall have to hire graduate engineers at a minimum salary of Rs. 25,000 per month per engineer and Diploma Engineer at a minimum salary of Rs. 15,000/- as per the General Administration Department, CG Govt. order no. F 7-17/2020/1-6.

**35. INSPECTIONS :**

CREDA reserves right to inspect the material at Godowns/Temporary Stores before dispatch and also at works sites.

**36. TAXOBLIGATIONS:**

CREDA shall deduct TDS for Income Tax, applicable chess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.

**37. JURISDICTION OF THECOURT:**

Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh.

**38. For the purpose of pre-qualification, bidders will be evaluated in the following manner:-**

- a. The bidder's qualifications against the criteria prescribed above will first be scrutinized and evaluated and the bidder eligibility for pre-qualification for the work will be first determined.
- b. **Even though the Bidder meets the above qualifying criteria, they are subject to be disqualified if they have:**
  - i. Made misleading, incorrect or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements.

**And/or**

- ii. Record of poor performance such as abandoning the works, not properly completing the contract, unsatisfactory quality of work, inordinate delays in completion, claim and litigation history, or financial failures etc in any department of Govt. of Chhattisgarh or the state Govt. organization/services/corporations/local body etc. (by whatever names these are called) within State territory of Chhattisgarh.

**And/or**

- iii. Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to the Executive Engineer Raipur/Rajnandgaon.

**39. PAYMENT TERMS & SECURITY DEPOSIT**

The following terms of payment shall apply for the Bidder–

- a) **97%** of the order value as per the Work/supply order after satisfactory Work Completion/Supply.
- b) Running bill payment, amount of which shall not be less than Rs. 3 Lacs, will be done after actual measurement of work.
- c) **97%** payment, as per actual measurement w.r.t. CGPWD SOR 2015 shall be made to the Bidder. For items/works other than SOR, the payment shall be **97%** of value of the work order (excluding value of GST, as applicable).
- d) GST will be paid at the time of payment after Work/supply of the item as per norms.
- e) Balance **03%** of the order value shall be retained by CREDA as Security Deposit for a period of 60 months.



## 8. PRICE/FINANCIAL BID

### (Price Bid A)

#### A. For Any Type of Civil Construction work as per CGPWD SOR 2015:

I/ We hereby quoting rates with respect to CGPWD SOR 2015 for Any Type of Civil Construction in Energy Education Park, Village- Pandar, Block- Patan, Durg (C.G.).

SN	Description of Items	Rate
1	Rates with respect to CGPWD SOR 2015 for Civil Construction, and other civil related works for new Energy Education Park at village - Pandar, Block-Patan, District-Durg (C.G.).	_____ % Above/Below

The above F.O.R. rates are including all GST, levies, Royalty, transportation, handling, loading, unloading, material, curing, insurance etc.

Contractor's Signature Company's SEAL

Place:

Firm name

Representative Full Name

Date:

Designation

**(Price Bid B)**
**B. For Landscaping and horticulture work (As per Scope of work):**

Sr. No.	Supply & Plantation work of Botanical plant (Supply & plantation work)	Size/Unit in Inch	Rate per unit in Rs. (Excluding GST)	Total Qty.	Total Amount Rs. (Including GST)
1	Stachytarphata Indica	7x8		270	
2	Murraya Exotica	7x8		120	
3	Cordyline garden party	7x8		50	
4	Dracena Mahatma	7x8		50	
5	Ixora duffy pink	7x8		40	
6	Jatropha pandurifolia	7x8		400	
7	Allamanda nerifolia dwarf	7x8		400	
8	Hibiscus dwarf mixed colors	8x10		180	
9	Heliconia psittacorum	7x8		610	
10	Canna indica dwarf	7x8		180	
11	Hamelia patens	7x8		60	
12	Mussaenda frondosa	7x8		210	
13	Codiaeum variegatum "rainbow"	7x8		80	
14	Calliandra brevips	7x8		100	
15	Tecomaria capensis	7x8		105	
16	Rhapis excelsa	13x13		30	
17	Chrysalidocarpus lutescens	13x13		300	
18	Caesalpenia pulcherima	15x16		22	
19	Jasmiunum sambac	7x8		220	
20	Ixora singaporensis	7x8		50	
21	Canna red	7x8		60	
22	Canna Yellow	7x8		60	
23	Hymenocalis littoralis	7x8		100	
24	Tebernemontana coronaria	7x8		50	
25	Mynea erecta	7x8		60	
26	Mussaenda erythrophylla	13x13		15	
27	Cuphea white	7x8		1000	
28	Alpenia purpurea	7x8		90	
29	Heydichium coronarium	7x8		60	
30	Stralitzia reginae	15x16		80	
31	Tabernemontana variegated "Dwarf"	7x8		180	
32	Hibiscus rosa-sinensis	7x8		170	
33	Wadelia trilobata	7x8		25824	
34	Samanea saman	21x21		2	
35	Bauhenia purpurea	21x21		6	
36	Tabebuia argentea	21x21		6	
37	Erythrina variegata	21x21		12	
38	Terminalia arjuna	21x21		1	
39	Couroupita guianensis	15x16		1	
40	Lagerstromia speciosa	21x21		11	
41	Terminalia bellerica	8x10		5	
42	Plumeria alba	21x21		76	
43	Shorea robusta	15x16		10	

Contractor's Signature Company's SEAL



Sr. No.	Supply & Plantation work of Botanical plant (Supply & plantation work)	Size/Unit in Inch	Rate per unit in Rs. (Including GST)	Total Qty.	Total Amount Rs. (Including GST)
44	Millingtonia hortensis	21x21		22	
45	Spathodea companulata	21x21		3	
46	Cassia fistula	21x21		12	
47	Bauhenia blackeana	21x21		14	
48	Delonix regia	21x21		7	
49	Peltophorum pterocarpum	21x21		7	
50	Michelia champaca	21x21		22	
51	Tabebuia rosea	21x21		7	
52	Mangiera indica	21x21		4	
53	Aegle marmelos	13x13		13	
54	Morus indica	15x16		5	
55	Wendlandia heynei	8x10		2	
56	Dalbergia sisoo	21x21		4	
57	Crataeva adansonii	8x10		3	
58	Desmodium oojeinense	8x10		2	
59	Syzigium cumini	21x21		4	
60	Haldina cordifolia	8x10		3	
61	Chloroxylon sweitenia	8x10		3	
62	Ficus triangularis variegeted	21x21		320	
63	Vernonia creeper	7x8		150	
64	Spathyphyllum	7x8		150	
65	Monstera deliciosa	13x13		50	
66	Caladium charm	7x8		60	
67	Cuphea hyssopifolia	7x8		150	
68	Calathea zebrina	8x10		40	
69	Hemigraphis colorata "exotica"	7x8		100	
70	Water lily	8x10		50	
71	Duranta repens	7x8		200	
72	Hamelia patens	7x8		600	
73	Hibiscus dwarf mixed colors	8x10		370	
74	Chrysalidocarpus lutescens	8x10		25	
75	Cordyline garden pary	7x8		25	
76	Cordyline terminalis mahatma	7x8		25	
77	Allamanda nerifolia dwaff	7x8		150	
78	Jatropha pandurifolia	7x8		580	
79	Termilalia chebula	8x10		4	
80	Millingtonia hortensis	21x21		22	
81	Schleichera oleosa	8x10		1	
82	Pterospermum acerifolium	21x21		5	
83	Dillenia pentagyne	8x10		5	
84	Hardwickia binnata	8x10		5	
85	Ailanthus excelsa	8x10		5	
86	Terminalia arjuna	21x21		2	
87	Mitragyna parviflora	8x10		2	
88	Madhukamini	13X13		1743	
89	Supply & Laying of Carpet/Selection grass	Sqm.		6500	
<b>Total Amount ₹</b>					

Contractor's Signature Company's SEAL

Place:

Firm name:

Date:

Representative Full Name:

### (Price Bid C)

#### C. Irrigation Work:

Complete Specialized, Design specific Irrigation system for all Plants/Trees/Grass etc. at Energy Education Park, Village - Pandar, Patan, District - Durg (C.G.) as per the specification of CREDA and as per following scope:

**Work:** Complete irrigation with drip system and popup sprinkler system for all plants including trees, shrubs and creepers, grass etc. at campus of Energy Education Park, Village - Pandar, Patan, District -Durg (C.G.). The following Items should require for the irrigation system:-

SN	Particular	Make/ model	Unit	Rate per unit in Rs. (Incl. GST)	Total Qty. Aprox.	Total Amount Rs. Incl. GST
<b>1.00</b>	<b>PIPE WORK</b>					
	Providing, laying & jointing in position PVC/ HDPE pipe conforming to ISI standard and suitable for the respective working pressures with all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc. jointing as per manufacturers' instruction,					
1.1	PVC pipe 90mm-6 kg/cm2	As per ISI Reputed make	Rm		456	
1.2	PVC pipe 75mm-6 kg/cm2		Rm		270	
1.3	PVC pipe 63mm-6 kg/cm2		Rm		528	
1.4	PVC pipe 50mm-6 kg/cm2		Rm		588	
1.5	PVC pipe 40mm-6 kg/cm2		Rm		1830	
1.6	Earth work excavation and refilling 300x450mm		Rm		2300	
<b>2.00</b>	<b>SPRINKLERS &amp; ACCESSORIES</b>					
2.1	Providing & fixing of Rotatory Pop up having colour coded <b>MP Rotator nozzle</b> with <b>multiple stream water spray</b> capable of covering 2.5m- 10.7m with <b>Matched Precipitation Rate</b> .The Spray Head body shall be constructed of heavy-duty, ultraviolet resistant plastic and stainless steel spring with multifunctional wiper seal with small exposed cover.	As per ISI Reputed make	No		52	
2.2	Providing & fixing of <b>PS- Ultra, Pop up spray head bodies</b> , having features an encased plastic 'cage' to provide unmatched resistance to grit,with high efficiency <b>ADJUSTABLE</b> nozzle capable of covering 1.2M -5.2m at 1.0 - 2.1 Bars, pressur. Additionally Two-piece ratchet mechanism, Features is Precision controlled flush at pop-down clears debris from unit, Construction of time-proven UV resitant plastic.		No		451	
2.3	Providing & Fixing of <b>SJ- 512, 1/2"</b> Pop up Connecting <b>Four Elbow Swing joint</b> Assembly. The fittings shall be made of UV resistant thermo plastic.		No		503	
2.4	Providing and fixing of <b>PP service saddle</b> of varying size.1/2'		No		503	
<b>3</b>	<b>DRIP LATRAL AND ACCESSORIES</b>					
3.1	Supply and fixing of flexible Blank tubing and resistance to UV damage and algae growth black in colour 16 mm size. With all fittings and accessories.( Dripline 16 mm 50 cm 3.8 lphinline lateral)	As per ISI Reputed make	Rm		2400	
3.2	Supply and fixing of flexible Blank tubing and resistance to UV damage and algae growth black in colour 16 mm size. With all fittings and accessories.( Plain Dripline 16 mm plain lateral)		Rm		800	
3.3	Supply and fixing of PC drippers 8lph		Rm		2000	
3.4	Supply and Fixing Rod Comes Pre -Bent or plastic lateral stack to Staple Distribution Tubing , Drip Line to Finished Grade.		No		320	
<b>4.00</b>	<b>VALVES &amp; ACCESSORIES</b>					
4.1	Providing and fixing of PVC Ball Valve, security pivot to maintain lever in space, double water tight joint, direct injection stem non mechanical ,with a base which permits maximum penetration into the valve of size 63mm.	As per ISI Reputed make	No		13	
4.2	Providing & fixing of Isolation Valve in mainline for bypass and flow diversion of approved quality		No		2	
4.3	Providing & fixing of a double acting 1" Air release valve, The Air release valve shall be capable of both releasing and admitting air from and into the line. The working pressure shall be 5 bar. Including service saddle and riser assembly.		No		3	

Contractor's Signature Company's SEAL





SN	Particular	Make/ model	Unit	Rate per unit in Rs. (Incl. GST)	Total Qty. Aprox.	Total Amount Rs. Incl. GST
4.4	Providing & fixing of 12" Rectangular Valve Box with green lid and corrugated structure with unique shovel access slot and bolt hole knockout	As per ISI Reputed make	No		13	
4.5	Providing & fixing of 6" Round box with green lid and corrugated structure with unique shovel access slot and bolt hole knockout		No		8	
4.6	Providing & fixing of Brass Quick coupling valve made up of solid brass with locking cover corrosion resistant and stainless steel spring. Including service saddle and riser assembly.		No		8	
4.7	Providing & fixing of Brass Key threads into top of QCV to provide water access And Brass Swivel Elbow		No		3	
<b>5.00</b>	<b>FILTRATION UNIT</b>					
5.1	Providing & Fixing of DISC FILTER- with capacity matching pump design flow having an suitable inlet connections , to create a helical effect in the incoming water ,spinning particulate in suspension away from the filtering element and so minimizing cleanings frequency ,3/4" outlet for flushing at bottom of filter & maximum working pressure of 10 Bars. with pressure gauge.	As per ISI Reputed make	No		1	
<b>6.00</b>	<b>PUMPING UNIT</b>					
6.1	Providing & Fixing of (Mono block/Open well submersible) pump set of having discharge <b>6.3 lps@45 mtr</b> head . suitable for pump set having panel box and fixed along with following accessories starter ,start / stop push buttons , Ammeter, Voltmeter , Indicating lamps, MCB , with cable, etc.	As per ISI Reputed make	No		1	
6.2	Providing and fixing of control panel suitable for pump set having panel box and fixed along with following accessories starter ,start / stop push buttons , Ammeter, Voltmeter , Indicating lamps, MCB , with cable, etc.		No		1	
6.3	Providing & Fixing of ,Suction ,Delivery & Header Pipe		No		1	
6.4	Providing & fixing of <b>control Valve /Butterfly Valve</b> in mainline for bypass and flow diversion of approved quality 3"		No		1	
6.5	Providing & fixing of <b>Non Return Valve</b> to prevent back flow 3"		No		1	
6.6	Providing and fixing of <b>Pressure Release Valve 2"</b>		No		1	
<b>Total Amount ₹</b>						

- The Quantity and work may be amended as per site Situation and requirement and as per the Engineer in-charge.

Contractor's Signature Company's SEAL:

Place:

Representative Full Name:

Firm name:

Date:

**(Price Bid D)**

**D. Non SOR Item:**

SN	Particulars	Unit	Rate per Unit in Rs. Incl. GST	Qty.	Total Amount Rs. Incl. GST
1	Supply, fabrication, fixing & installation of 150mm X 150mm X 6mm MS square column pipe, painted in approved color (Check size and fixing detail with structural consultant) (26.4kg./m)	Kg.		1400	
2	Supply, fabrication, fixing & installation of 35mm X 35mm X 3.2mm MS square column pipe, pergola member fixed to beam frame painted in approved color (2.99 kg./m)	Kg.		1500	
3	Supply, fabrication, fixing & installation of 50mm X 100mm X 3.2mm MS square column beam painted in approved color (7.01kg./m)	Kg.		4500	
4	Providing and fixing Rubber flooring providing and laying 24mm rubber slabs with 100mm PCC bed for leveling the ground.	Sqm		300	
5	Providing and fixing curb stone (300*100mm) (H*B)- with 1:6 cement mortar bed.	Rm		2000	
6	Providing & Fixing Direction and Place Identification signs up to 0.9 sqm size board. (Providing and erecting direction and place identification retro reflectorized sign as per IRC:67-2012 made of Micro prismatic grade type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60cm, 60cm below ground level as per approved drawing)- 60nos.	sqm		50	
7	Internal pathway- Providing and fixing pebble stone paved pathway.	sqm		187	
8	Supplying, fixing and installation of glass mosaics with fixing solution of superior quality of minimum thickness 04 mm and the chip size 25*25 mm	Sqm		4000	
9	Providing & Fixing superior quality Natural River Sand Stone	Kg.		3000	
10	Providing, Fixing and laying of Synthetic/PVC sports flooring surface, moderate varicose and foam buffer of 5 Layers minimum thickness 50mm, multipurpose sports flooring work with installation.	Sqm.		1500	
11	Providing & Fixing Approved Size & Shape Sculptured statue of minimum size 5*3*2 ft (L*H*B) made up of superior quality Marble (Small)	no.		10	
12	Providing & Fixing Approved Size & Shape Sculptured statue of minimum size 10*5*3 ft (L*H*B) made up of superior quality Marble (Big)	no.		1	
<b>Total Amount ₹</b>					

- The Quantity and work may be amended as per site Situation and requirement and as per the Engineer-in-charge.

Contractor's Signature Company's SEAL

Place:

Firm name:

Representative Full Name:

Date:

**(Price Bid E)****E. Open GYM Equipment Open Gym (As per scope of work)**

SN	Particulars (As per scope of work)	Unit	Rate per Unit in Rs. Incl. GST	Qty.	Total Amount Rs. Incl. GST
1	Supply, installation, testing & fixing (Excluding civil work) of Sky Walker, with all suitable accessories: 2 Persons	No.		1	
2	Supply, installation, testing & fixing (Excluding civil work) of Air Walker, with all suitable accessories: 1 Persons	No.		1	
3	Supply, installation, testing & fixing (Excluding civil work) of Chest Press, with all suitable accessories: 2 Persons	No.		1	
4	Supply, installation, testing & fixing (Excluding civil work) of Seating Standing Twister, with all suitable accessories: 2 Persons	No.		1	
5	Supply, installation, testing & fixing (Excluding civil work) of Sit Up Board, with all suitable accessories: 2 Persons	No.		1	
6	Supply, installation, testing & fixing (Excluding civil work) of Shoulder Builder, with all suitable accessories: 2 Persons	No.		1	
7	Supply, installation, testing & fixing (Excluding civil work) of Leg Extension, with all suitable accessories: 2 Persons	No.		1	
8	Supply, installation, testing & fixing (Excluding civil work) of Push Up Bar, with all suitable accessories: 2 Persons	No.		1	
<b>Total Amount ₹</b>					

- The Quantity and work may be amended as per site Situation and requirement and as per the Engineer-in-charge.

Contractor's Signature Company's SEAL

Place:

Firm name:

Representative Full Name:

Date:

**(Price Bid F)****F. Supply, Installation, commissioning & Testing of water Fountain accessories for 72 FT dia electro mechanical fountain with 02 year warrantee & COMC**

SN	ITEM DESCRIPTION	MAKE	Unit	Rate per unit Rs. incl. GST	Qty.	Total Rate Rs. incl. GST
<b>SUPPLY &amp; FIXING OF WATER BODY BASIN ITEMS</b>						
1	Drain Grill Size SIZE 300 mm X 300 mm	Certikin UK/Equivalent	No		2	
2	FRP Gratings Cover For Fountain Pump	FKC India / Equivalent	Set		5	
3	Wall Inlet 50mm	quatix USA/Equivalent	No		8	
4	Vacuum Fitting	Astralpool/ Equivalent	No		4	
<b>SITC OF WATER BODY FILTERATION SYSTEM</b>						
5	900 Dia Filter + 2" MPV + Filter Media with Ionizer to maintain Water clarity without Chemical Dosing system with control panel	Certikin / Equivalent	No		3	
6	Filter Pump Capacity 25 Cu / Hr Flow Rate @ 10 MWC with starter panel ( 1 No. W + 1 No. SB )	Certikin / Equivalent	No		4	
<b>SUPPLY &amp; DEMO OF MAINTENANCE ACCESSORIES</b>						
7	Metallic Vacuum Head - Shark Series	Astralpool/Equivalent	No		1	
8	Aluminum Handle 15 FT	Certikin / Equivalent	No		1	
9	Vacuum Hose 12 m 1.5"	FKC India /Equivalent	No		1	
10	Cleaning Curved Brush	Certikin / Equivalent	No		2	
11	Deep Bag Net	Certikin / Equivalent	No		2	
<b>SUPPLY &amp; FIXING OF FOUNTAIN NOZZLES</b>						
12	4" High Jet Effect Nozzle	Aquascape / Equivalent	No		1	
13	Heighted Jet 2" Effect Nozzle	Aquascape / Equivalent	No		8	
14	Ring Effect fountain - 18 Ft Dia 3/4" Adj. Jets - 140 No.	Aquascape / Equivalent	Set		1	
15	Mist JET Effect fountain 12 Ft Dia 1/2" Jets - 80 Nos.	Aquascape / Equivalent	Set		1	
16	Ring Effect fountain - 6 Ft Dia 3/4" Adj. Jets - 40 No.	Aquascape / Equivalent	Set		10	
<b>SITC OF FOUNTAIN / WATER FEATURE PUMP &amp; ELECTRICAL CONTROL PANEL</b>						
17	Submersible Pump with Starter Panel 60 Cu M / Hr @ 14 MWH for High Jet + strainer ( 2 No. W + 1 No. SB )	KBL/Equivalent	Set		3	
18	Submersible Pump with Starter Panel 100 Cu M / Hr @ 8 MWH for Club Entry Fountain ( 5 No. W + 1 No SB )	KBL/Equivalent	Set		6	
19	Electrical Panel For Pumps complete with Ammeter Volt meter, color coded wiring complete in all respect	Indegenous/Equivalent	No		1	
<b>SITC OF WATER BODY LIGHTING &amp; ELECTRICAL CONTROL PANEL</b>						
20	12 W / 24 V LED Lights ( RGB ) with Power supply & Control Panel	FKC /Eltron/Equivalent	Set		150	
<b>ALL PLUMBING &amp; ELECTRICAL WORK</b>						
21	All Fountain / Filter system Plumbing in Sch 40 uPVC / High pressure rPVC piping for pressurized lines & 6 PN RPVC for over flow lines including all Fitting, control valves, pipe supports assuming maximum distance of plant room from Fountain bodies is 6 Mtr	Supreme / Astral/ Finolex / Equivalent	Lot		1	
22	Supply, Installation, Testing & commissioning of All associated solenoid valves (Qty-1 Set. as per requirement), associated Cable work , PLC for pump & Light Panel + VFD + HMI) etc.	LS	JoB		1	
<b>Total Amount ₹</b>						

- The Quantity and work may be amended as per site Situation and requirement and as per the Engineer-in-charge.

Contractor's Signature Company's SEAL

Place:

Firm name:

Representative Full Name:

Date:

**(Price Bid G)**

**G. Supply, Installation, commissioning & Testing of KOI Pond accessories for 6000 cu.ft., with 02 year warrantee & COMC**

SN	Particular	MAKE	Unit	Rate per unit Rs. incl. GST	Qty.	Total Rate Rs. incl. GST
1	<b>SITC of PLUMBING CONNECTORS</b> Connectors made in UPVC class Sch 40 as per IS ASTM 1785 of the following sizes and suitable to be fixed in the pool walls and floor raft at the time of construction of Aquarium 1 ,balancing tank, fresh water overflow inlet, b/tank overflow to main drainage MOC: UPVC sch 40	Supreme / Astral	set		1	
2	<b>SITC of MAIN DRAIN FOR WB</b> ABS Circular main drain 200 mm dia with main frame screwed on base frame duly groutable on the pool bottom deepest part. The drain plate should be able to collect a water volume of not less than 25 M3/hr @ a drain velocity of .5 m/sec, MOC: ABS	Certikin UK / Eq.	no.		4	
3	<b>SUPPLY &amp; FIXING OF OVERFLOW GRATINGS - ABS (2 M Set X 10 No. )</b> Overflow gratings in FRP size 195mm X 32 mm/UV resistant to be fixed on straight as well as cured channels . Corner supports in SS 304 to be supplied for fixing at pool corners	Certikin UK / Eq.	mtr		20	
4	<b>SUPPLY &amp; FIXING OF FILTERED WATER FLOOR INLET</b> Concrete floor inlet with SS giving flow of 2.5 m3/hrwith 1" male threaded connection	FKC india/ Equivalent	no		15	
<b>SITC OF AQUARIUM WATER TREATMENT SYSTEM</b>						
5	<b>MECHANICAL FILTER PLANT</b> Totally anti-corrosive Filter Plant 800 mm dia manufactured in fiber glass. Complete with pressure gauge, manual air vent, water purge , drain out. The unit giving a flow of 18.5 M3/hr @ 37.5M3/Hr/M2 velocity Maximum working pressure 2.5 Bar	Certikin UK / Eq.	no		2	
6	<b>MULTI PORT VALVE</b> Body, cover and handle in injection-moulded ABS Plastic, Distributor in PPO, Sight glass in Polycarbonate, Security clip in the cover, Star gasket in EPDM in the distributor to prevent the accumulation of dirt. It is possible to change the gasket if necessary , Maximum working pressure: 3,5 kg/cm2	Certikin UK / Eq.	set		2	
7	<b>QUARZ FILTER MEDIA</b> Special graded filter media made with selected Quartz stone & processed to make suitable to use as filter media 1. Quartz Filter Media Grade 1 ( 16/32 meshsize ) 2. Quartz Filter Media Grade 1 ( 8/16 meshsize )	Superior quality	Kg Kg		900 150	
8	<b>BIO FILTER PLANT</b> Totally anticorrosive Filter Plant 800 mm dia manufactured in fiberglass. Complete with pressure guage, manual air vent, water purge , drain out. The unit giving a flow of 18.5 M3/hr @ 37.5 M3/Hr/M2 velocity Maximum working pressure 2.5 Bar	Certikin UK / Eq.	no		2	
9	<b>MULTI PORT VALVE - SIDE MOUNTED</b> Body, cover and handle in injection-molded ABS Plastic, Distributor in PPO, Sight glass in Polycarbonate, Security clip in the cover, Star gasket in EPDM in the distributor to prevent the accumulation of dirt. It is possible to change the gasket if necessary, Maximum working pressure: 3,5 kg/cm2	Certikin UK / Eq.	set		2	
10	<b>BIO FILTER MEDIA</b> Bio filter media made with highly porous media processed to make suitable to use as Bio filter media Bio Media Grade 1	Astral Pool Spain/ Eq.	kg		1000	
11	<b>FILTRATION PUMP</b> Robust High efficiency Pump with Plastic Body Pump , 2 HP with large hair & lint strainer ( 2 No. W + 1 No. SB )	Astral Pool Spain / Certikin UK	set		3	



SN	Particular	MAKE	Unit	Rate per unit Rs. incl. GST	Qty.	Total Rate Rs. incl. GST
12	<b>OZONE GENERATOR+OXYGEN CONCENTRATOR-15 GM</b> Tube type , Closed Loop Ozonator , Air Cooled, 30 Gm / Hr capacity ,Ventury Injector , NRV, Water trap, Static Mixture, Air Pump with Flow meter & Air Filter , 5 LPM Oxygen Concentrator	FKC India / Eq	set		1	
13	<b>SITC OF SMART ELECTRIC CONTROL PANEL</b> Electric Starter Panel in 16 Gauge Powder coated CRCA Sheet with 1 No. incoming MCB, 1 No. Starter with on / of indicating lamps for each filter pump, 1 no. each push button start for Ozonator & Ionizer , 1 No. voltmeter with selector switch, 1 No. ammeter , all internal wiring from incoming main etc. complete, All material / make used will be of standards as per BIS 1. Low / High voltage Protection 2. Dry run protection 3. Timer based operation	FKC India/ Eq.	no		1	
14	<b>OLIGODYNAMIC IONIZER UNIT</b> Cu Ag Ionizer to for prevention of unwanted Algae, fungi formation with Control Panel suitable for 25 Cu M / Hr Flow	FKC India/ Eq.	set		1	
15	<b>SITC OF WATER BODY POOL LIGHTING SYSTEM</b> 6 W / 12 V W/W POOL LIGHT 6 W / 12 V Warm Light 3000 K , IP 68 protection for Aquarium	FKC India / Eq	no		60	
16	<b>LIGHT PANEL</b> Powder coated CRCA Sheet enclouser with MCB , power supply & transformer complete in all respect with colour coded wiring, Toggle switch for each light complete in all respect.	FKC India / Eq.	no		2	
17	<b>SITC OF PLUMBING AND ELECTRICALS RELATED WITH SWIMMING POOL (EXCLUDING EXCAVATION &amp; BACK FILLING)</b> Supply, Fixing, testing of UPVC schedule 40mm pipe confirming to ASTM 1785 including all fitting such as bends, elbows, reducers, tees, unions, couplers, tail pieces, rubber gaskets, GI nut bolts etc., cost shall be inclusive of for providing fabricated supports as per specifications & making good. Pipes shall be connected to pumps, equipments, valves etc. through tail piece flanges or unions to the satisfaction of EIC					
i	<b>MAIN DRAIN PIPE LINE</b> RPVC pipe (63 mm 6 PN ) will be connected to overflow chamber with control valve )	Supreme/ Finolex/ Astral	mtr		24	
ii	<b>BOTTOM DISTRIBUTION PIPE LINE</b> Flexible Hose pipe ( 2.5") for circular water body		mtr		40	
iii	<b>FILTER ROOM PIPE LINE</b> uPVC pipe (2.5") Sch 40		mtr		20	
iv	<b>RETURN INLET PIPE LINE</b> uPVC pipe (2.5") Sch 40		mtr		20	
v	<b>OVERFLOW PIPE LINE</b> RPVC 160 MM OD 6 PN		mtr		60	
22	<b>FOOT VALVE TO SUIT</b> 63 mm (2") PUMP SUCTION LINE 63 NB	Kirloskar/ Normex / Zoletto	no		3	
23	<b>NRV WITH ACEESORIES COMPLETE</b> (Pump Delivery) 65 NB / 2.5"	Certikin UK /Cepex / Eq.	no		3	
24	<b>SLUICE VALVE FOR DRAIN LINE WITH GI OPERATING KEY&amp; HANDLE</b> 63 NB/2"	Kalpana/ Utam/Kart ar	no		3	
25	<b>U/W LIGHT &amp; FILTER ROOM CABLE &amp; CONDUITING</b> Supplying, laying and commissioning of PVC insulated and sheathed power cable conforming to IS:1554 part-I 1988 as per specifications laid and in 3/4" BSP pvc conduits 2 core unarmored flexible copper cable 2.5 Sq.mm for UW lights	Finolex/ Havell's/ BCH	mtr		800	
<b>Total Amount ₹</b>						

- The Quantity and work may be amended as per site Situation and requirement and as per the Engineer-in-charge.

Contractor's Signature Company's SEAL

Place:

Firm name:

Representative Full Name:

Date:





## 9. DRAFT AGREEMENT

CONTRACT AGREEMENT BETWEEN Chief Engineer Chhattisgarh State Renewable Energy Development Agency (CREDA) Raipur AND M/s.....  
 Represented by.....THIS CONTRACT AGREEMENT against Bid No. 17700/CREDA/HOR/EEP Patan/2020-21 Dated: 04.03.2021 (also referred to as "Service Contract") is made on the .....<sup>th</sup> day of \_\_\_\_\_ 2021.

### BETWEEN

- (1) Chief Engineer Chhattisgarh State Renewable Energy Development Agency (CREDA) Raipur a society incorporated under the laws Society Registration Act 1973 , (1973 , Sr. No. 44 ) (with amendment from time to time) and having its Registered Office at VIP Road Near Energy Education Park, Village-Fundhar, Raipur and (here in after called "The Employer" and also referred to as "CREDA")

### And

- (2) M/s..... Represented by a company incorporated under the laws of Companies Act 1956/2013/ Partnership firm/ Proprietorship firm/Consortium (as applicable, with amendment from time to time ) and having its Principal place of business at ..... and Registered Office at.....hereinafter called "The Contractor" and also referred to as "

**Whereas the contractor has offered to enter into contract with the said CREDA for the "CREDA invites Expression of Interest (EoI) cum QCBS tender for standardization of rates for establishment of Energy Education Park including the work of survey, design, drawing, estimation etc. for landscaping, horticulture, specialized Constructions, development, Irrigation etc. at Village – Pandar, Block- Patan, District - Durg (C.G.), Wide Bid No.17700/CREDA/HOR/EEP Patan/2020-21 Dated: 04.03.2021 on the terms and condition share in contained and threats approved by the CREDA (Letter No..... Dated..... annexed here to) have been duly accepted and where as the necessary security deposit shall be furnished in accordance with the provisions of the Bid document and where as no interest will be claimed on the security deposits.**

**Now these presents witness and it is hereby agreed and declared by and between parties to these presents as follows -**

- 1) The Contractor shall, during the period of this contract, that is to say from.....to..... or completion thereof, until this Contract shall be determined by such notice as is hereinafter mentioned, safely carryout, by means of labours employed at his own expenses and by means of tools, implements and equipment etc. to be supplied by him to his labour at his own expenses, Expression of Interest (EoI) cum QCBS tender for standardization of rates for establishment of Energy Education Park including the work of survey, design, drawing, estimation etc. for landscaping, horticulture, specialized Constructions, development, Irrigation etc. at Village – Pandar, Block- Patan, District - Durg (C.G.) **as described in Bid documents. (annexed to the agreement).**
- 2) The NIT (Notice Inviting Bid), Corrigendum to NIT, Notices, Bid documents (Qualifying, Technical and Financial), approved rates annexed here to and such other additional particulars, undertaking, instructions, general conditions of contract, Scope of work, Technical specifications of Item/Items and Annexure therein, engineering documents, detailed specifications of BOS, so far they relate to the **Bid No.17700/CREDA/HOR/EEP Patan/2020-21 Dated: 04.03.2021** as may be found requisite to be given during execution of the work shall be deemed and taken to be an integral part of the contract and shall also be deemed to be included in the expression "The Agreement or "The Contract "wherever herein used.
- 3) The contractor shall also supply the requisite number of workmen with means & materials as well as tools, appliances, machines, implements, vehicles for transportation, cartage etc. required for the proper execution of work within the time prescribed in the work orders and/or as per the Bid conditions.
- 4) The Engineer in Charge or his authorized representative (s) shall be entitled at all reasonable items to inspect and supervise and test during commissioning. Such inspection will not relieve the eligible bidder from their obligations under this contract.
- 5) Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory at the cost of the eligible bidder, if desired by CREDA. CREDA reserves right to inspect the material at Godowns / Temporary Stores before dispatch and also at worksites.
- 6) CREDA shall deduct TDS for Income Tax, applicable chess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.
- 7) **ELIGIBLE SYSTEM INTEGRATOR'S DEFAULT LIABILITY-**  
 CREDA may by written notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -
  - (a) If in the opinion of the CREDA, the eligible bidder fails to complete the supply within the time specified in the supply Order or within the period for which extension has been granted by CREDA to the eligible bidder.

- (b) If in the opinion of CREDA, the eligible bidder fails to comply with any of the provisions of this contract.
- (c) In the event of CREDA terminating the contracting who Le or impart as providing paragraph above, CREDA reserves the right to engage another eligible bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs or any losses caused to CREDA as may be required for the supply of Item/Items (Shown in (EoI) cum QCBS tender) and or for penalty as defined under this Bid document until such reasonable time as may be required for the final completion of the work.
- (d) In the event CREDA does not terminate the contract as provided in paragraph (a) the eligible bidder shall continue performance of the contract, in which case he shall be liable to CREDA for penalty for delay as set out in this Bid document until the work is completed.
- 8) FORCE MAJEURE-**  
The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as act of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes provided that if SI shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify. Delay in supply of any accessories of Item/Items (Shown in EoI Cum QCBS Tender) etc. by the related vendors, to whom the Bidder has placed order, shall also not be treated as force majeure.
- 9) REJECTION OF WORKS-**  
In the event of any of the materials supplied/work done by the eligible bidder is found defective in material or workmanship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/or work and advise the eligible bidder to rectify the same. CREDA may impose penalty for such rejection up to the 200% cost of the entire system. Habitual/repeated offenders shall be black listed/debarred to participate in the any Bid/Activity of CREDA till further orders. The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible bidder fails to do so CREDA may-
- a) At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **15%** service charges of the cost of such rectification, from the eligible bidder and/ or terminate the contract for balance work/ supplies with enforcement of penalty as stated above.
- b) Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work **with enforcement of penalty as stated above.**
- 10) EXTENSION OF THE TIME-**  
If the completion of Work/Supply is delayed due to any reason beyond the control of the eligible bidder, the eligible bidders shall without delay give notice to the CREDA in writing of his claim for an extension of time. CREDA on receipt of such notice may or may not agree to extend the contract/delivery date of the Item/Items (Shown in EoI cum QCBS tender) as may be reasonable but without prejudice to other terms and conditions of the contract.
- 11) PENALTY FOR DELAY IN COMPLETION OF CONTRACT-**  
If the eligible bidder fails to complete the assigned work/supply within the schedule time specified in the Work Order or any extension granted there to, CREDA will recover from the Bidder as penalty a sum of **One per cent (1%)** of the system price for every delayed supply/work per month. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed **5% (Five Per cent)** of the cost. Review of the progress of supply/work of Item/Items (Showing EoI cum QCBS tender) allocated to bidders shall be done time to time by CREDA and if the progress of supply/work is found unsatisfactory, the allocation of entire remaining supply/work or their part of can be re-allocated to other bidder as per discretion of CREDA.
- 12) PENALTY DUE FROM THE ELIGIBLE BIDDER-**  
All costs of damages and delays for which the eligible bidders are liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.
- 13) ELIGIBLE SI'S RESPONSIBILITY-**  
Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the Item/Items (Shown in EoI cum QCBS tender) by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted works shall rest with the eligible bidder. If in any case the eligible bidder does not complete the work as per the Work Orders issued to them then CREDA may take over the task & complete the project at the risk and cost of eligible bidder.
- 14) RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE-**  
If any loss or damage occurs to the work or any part thereof or materials/plant/ equipment's for incorporation therein the period for which the eligible bidder is responsible for the cause thereof or from any cause whatsoever, the eligible bidder shall at his own cost rectify/replace such loss or damage, so that the permanent work confirms in every respect with the provision of the contract to the satisfaction of the Engineer. The eligible bidder shall also be liable for any loss or damage to the work/equipment's occasioned by him in course of any operation carried out to him during performing the contract.



**15) RESPONSIBILITY TOWARDS THE WORKMAN OR OUT SIDERS-**

- The eligible bidder shall have to take insurance coverage from any authorized Insurance Company against Workmen compensation due under Workmen Compensation Act and submit copy of the insurance document before issuance of Work Order.
- The eligible bidder shall ensure all safety measures during execution and repairs of the work. CREDA, will, in no case be responsible for any accident fatal or non-fatal, caused to any work man or outsider in course of transport or execution or repairs of work.
- All the expenditure including treatment or compensation will be entirely borne by the eligible bidders. The eligible bidder shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.
- Bidder shall have to submit Bill within **60 days** after supply/work of Item/Items.

**16) Contractor shall provide 01 years warranty in supplied Item/Items/work (Shown in EoI) from the date of supply as per the terms & conditions prescribed in the Bid No. 17700/CREDA/HOR/EPP Patan/2020-21 Dated: 04.03.2021.**

**17) DECLARATION OF CONFLICT OF INTEREST -** The bidder hereby declares that nobody connected with or in the employment of CREDA will not/shall not ever be admitted as partner in the contract.

(a) The contractor shall arrange insurance coverage for the material sand Item/Items (Shown in EoI cum QCBS tender) at his/ for the supply/work under execution and successful commissioning and subsequent handover to the CREDA. The contractor shall take up insurance or such other measures for the man power so as to cover the claim for damage arising under workmen's compensation Act and other applicable State/ Central laws. CREDA shall not bear any responsibility on this account.

(b) Bidder shall arrange for insurance coverage for Item/Items (Shown in EoI) during COMC period i.e. for 02 years from the date of supply/Work. Insurance should cover for damage and theft. In case of such incidence, bidder must replace the lost/damaged part within 7 days.

**18) The bidder shall abide by the terms and conditions, rules, guidelines, construction practices, safety precaution setc. stipulated in the Bid document including any correspondence between the bidder and the CREDA having bearing on execution of supply/Work and payments of supply/Work to be done under the contract.**

**19) The Bidder shall be responsible to follow all the laws including Workmen Compensation Act and all other laws in force & shall be responsible for all the obligations towards labour including EPF, ESI, etc.**

**20) All the taxes deductible at source as per Acts in vogue shall be recovered by CREDA and deposited with the appropriate authorities**

**21) Contractor agrees to abide by any decision/instruction passed by the appropriate authority under Anti-profiteering rules notified by the state/central government under GST act.**

**22) Any dispute arising out of the contract shall be subject to the jurisdiction of Hon'ble High Court of Chhattisgarh. "Herewith everything and anything contained in Bid document No. 17700/CREDA/HOR/EPP Patan/2020-21 Dated: 04.03.2021 is part of this agreement which has been dully signed by both bidder and authorized signatory of CREDA".**

In witness whereof the parties present today has hereby entered into agreement.

Signed & sealed on behalf of the above

Named contractor

Signed on behalf of CREDA

Name:

Name:

Designation:

Designation:

**Witness:**

1.Name:-.....

1. Name:-.....

Address:-.....

Address:-.....

.....

.....

2.Name:-.....

2. Name:-.....

Address:-.....

Address:-.....

.....

.....

## 10. CONSORTIUM AGREEMENT

This Consortium Agreement executed on this.....Day of..... 2021

### BETWEEN

M/S....., a Company/Proprietorship Firm/Partnership Firm incorporate under the Law of companies Act 1956/2013 and having its registered/principal office at ..... (GST No ..... ) through its proprietor Mr. .... S/o ..... (herein after called the “Partner-I”/ “Lead Partner” which expression shall include its successors, executors and permitted assigns)

### AND

M/s ..... a Company/Proprietorship Firm/ Partnership Firm under Firm(GST No ..... ) and having its registered/principal office at .....Through its Partner Mr..... S/o..... (herein after called the “Partner-II”/“Second Partner” which expression shall include its successors, executors and permitted assigns)

For the purposes of submission a Technical bid (hereinafter called “T-Bid” Including Eligibility & Presentation) and submitting the financial bid in case of being pre-qualified in response to Owner’s Technical bid document, (EoI) cum QCBS tender DOCUMENT No. 17700 Date: 04.03.2021 and entering into a contract in case of award for the work of establishment of new Energy Education Park including the work of survey, design, drawing, estimation for landscaping, horticulture, specialized development, Irrigation, drainage and related all type of civil works and its execution etc. at Village – Pandar, Block- Patan, District - Durg (C.G.) of CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY (CREDA) AND WHEREAS as per PQ document, Consortium bids will also be considered by the Owner provided they meet the specific requirements in that regard.

### NOW THIS INDENTURE WITNESSETH AS UNDER -

In consideration of the above premises and agreements all the partners to this Consortium do hereby now agree as follows:

- A. We the partners in the Consortium hereby confirm that the name and style of the Consortium shall be “...../.....” “Consortium.”
- B. FORMATION AND PRINCIPLE PLACE OF BUSINESS

#### 1. FORMATION-

The partner of the consortium do hereby form a Consortium pursuant to the laws of state of Chhattisgarh in order for the consortium to carry on the purposes for which provision is made herein

#### 2. Principal Place of Business-

The Consortium Partner shall maintain principal place of business at..... The partners of the consortium may re-locate its office from time to time or have additional offices as the partners may determine.

#### 3. PURPOSE OF THE CONSORTIUM-

The object of the consortium to bid and perform (EoI) cum QCBS tender No. 17700 Date 04.03.2021 from CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY (CREDA) For work establishment of new Energy Education Park including the work of survey, design, drawing, estimation for landscaping, horticulture, specialized development, Irrigation, drainage and related all type of civil works and its execution etc. at Village – Pandar, Block- Patan, District - Durg (C.G.) and to deal with the same in any manner what so ever.

#### 4. TERM-

The term of the consortium shall commence as of the date hereof and shall be terminated and dissolved upon the earliest to occur of (i) on mutual understanding of partners by executing separate agreement regarding dissolution of consortium (ii) the unanimous agreement of the partners (iii) the order of a court of competent jurisdiction (iv) Competition of the above mention tender.

**5. PERCENTAGE OF PARTICIPATION –**

<b>SN</b>	<b>CONSORTIUM PARTNER</b>	<b>PARTNER</b>	<b>PERCENTAGE</b>
<b>1</b>	M/s..... .....	Lead Partner ( Partner 1)	
<b>2</b>	M/s..... .....	Other Partner ( Partner 2)	
<b>Total</b>			

**6. PARTICIPATION-**

Both the partners have decided to perform the above mention work of CREDA in their above proportionate work as decided mutually.

**7. EXECUTION OF WORK AND BILLING-**

Both the partners of consortium have agreed that execution of work will be completed according to proportionate work allotted/agreed between them and after completion of their work, billing made to CREDA only by lead partner under his individual Firm Name for their allotted/agreed work completed. Lead partner (Partner-1) here by authorized to make bill under his firm name and collect all sales proceeding/Payments in his Bank account and after collection on proceeding partner -1 Bound to transfer proportionate share to Other partner (Partner -2) within two working days of sales proceeding received.

**8. MAINTENANCE AND OPERATIONS AND LIABILITY-**

It is mutually agreed between both the parties that Liability of successfully completion and maintenance of Work (including warranty & Insurance) of their allotted/Agreed work, will be the individual liability of Lead partner.

- i. In consideration of the PQ bid submission by us to the Owner, pre-qualification of our bid by the Owner if considered acceptable, submission of main bid by us and the award of contract by the Owner to the Consortium (if selected by the Owner), we the partners to the Consortium, hereby agree that the Partner – I (M/s ..... ) shall act as the lead partner for self and for and on behalf of Partner – II and further declare and confirm that only lead partner shall be bound unto the Owner for execution of the contract in accordance with the contract terms and shall Individually be liable to the Owner to perform all contractual obligations including technical guarantees.
  - ii. Lead partner shall be Solely responsible for Project Management of works.
  - iii. In case of any breach of the said Contract by any of the partners of the CONSORTIUM, I, Lead partner hereby agree to be fully responsible for the successful execution/performance of the Contract in accordance with the terms of the Contract.
  - iv. Further, if the Owner suffered any loss or damage on account of any breach of the Contract or any shortfall in the completed equipment/ plant, meeting the guaranteed performance parameters as per the technical specifications/ contract documents, the Lead Partner of these presents undertake to promptly make good such loss or damage caused to the Owner, on the Owner’s demand without any demure.
  - v. The financial liability of the partners to this Consortium Agreement, to the Owner with respect to the any or all claims arising out of the performance or non-performance of the Contract shall, however be limited in any way, to the lead partner.
  - vi. This Consortium Agreement shall be governed, construed and interpreted in accordance with Laws of India. Courts of Raipur (C.G.) shall have exclusive jurisdiction in all matters arising there under.
- 9.** It is further agreed that this CONSORTIUM Agreement shall be irrevocable and shall form an integral part of the Contract and shall continue to be enforceable till the Owner discharges the same. It shall be effective on the date first above mentioned for all purposes and intents.



IN WITNESS WHEREOF, the partners to this Consortium agreement have, through their respective authorized representatives, have executed these presents and affixed their hands and common seal of their respective companies on the day, month and year first above mentioned.

**FOR, M/s.....**

**FOR, M/s.....**

( MR..... )

( MR..... )

Lead Partner/Partner-1

Other Partner/Partner-2

WITNESS-

1.....

1.....

2.....

2.....



## 11. SCHEDULE – I

### PART ‘A’: GENERAL INFORMATION

(Strike off whichever is not applicable. Separate sheets should be used, wherever necessary)

01. Name & Address of the Bidder :
02. Name & Address of the firm/Company etc. :  
a) Registered office :  
b) Factory/works address :  
c) Fax No. :  
d) Telephone /Mobile No. :  
e) Email id :
03. Confirm whether Bidder is Manufacturer : Yes/No
04. Only manufacturer to give following particulars  
a) Address of factory :  
b) Year of starting manufacture :  
c) Whether same/similar materials :  
Manufactured  
earlier (if yes, give  
reference)  
d) Yearly/monthly production capacity :  
e) Maximum yearly production : Achieved so far
05. Whether the firm is SSI/MSME Unit of :  
Yes/No Chhattisgarh State:  
a) If yes, write registration No. :  
b) Whether documentary evidence :  
Regarding registration enclosed  
c) Items for registration :  
d) Period of registration :  
d) Whether latest copy Competency/ : Yes/No Certificate  
furnished
06. Whether the firm is 100% owned by :  
a) State Government : Yes/No  
b) Central Government : Yes/No  
If yes, Notification/certificate issued from :  
Yes/No The  
competent authority to this effect is enclosed
07. a) Whether the bidder is old participant : Yes/No  
with CREDA  
b) If yes, whether documentary :  
Yes/No Evidence is enclosed.
08. Any other information that bidder may like : If yes, give  
details to give in order to highlight his bid

PLACE:

**SIGNATURE OF BIDDER**

NAME IN FULL

DATE:

DESIGNATION/STATUS

FIRM/COMPANY SEAL

**PART 'B': COMMERCIAL INFORMATION**

(Strike off, whichever is not applicable. Separate sheets should be used. Wherever necessary)

01. i) Earnest Money Details : Bank draft/Bankers cheque payable to "CREDA", Raipur
- ii) Amount of E.M.D. & full details : ₹.....
- iii) If exempted, state whether the : SSI/MSME Unit  
of C.G. bidder i / Fully Owned State/Central Govt. Unit
- iv) Reference of documentary :  
Yes/No evidence regarding exemption enclosed.
02. Whether the offer is valid for 6 months :  
Yes/No  
from the date of opening of commercial/technical bid.
03. Rate of Sales Tax on the date of bid : (exclusive in the rate quoted)
04. **DISCOUNT:**
- a) Whether any rebate/discount is offered. : Yes/No
- b) If yes, whether the rebate is unconditional/conditional :  
Yes/No  
Rate/amount of rebate/discount
- c) If conditional State condition : Yes/No
05. **PAYMENT TERMS:**  
Whether CREDA's terms of payment is acceptable to BIDDER : Yes/No
06. **COMPLETION PERIOD OF WORK:**  
Whether BIDDER is agreeing for completion period of work as :  
Yes  
/No Specified in the EoI Cum QCBS Tender
07. **PENALTY CLAUSE:**  
Whether agreeable to CREDA's Penalty Clause : Yes/No
08. Whether agree able to CREDA's clause of warrantee period : Yes/No
09. **SECURITY DEPOSIT:**  
Whether Security Deposit clause is understood : Yes/No
10. Indicate State, Central Sales Tax Registration Number State : Yes/No  
Central: (Please Note that in case of non-registration with Commercial Tax,  
Department Purchase Tax as admissible shall be deducted by  
the Purchaser from the Bills of the supplier)
11. Please mention whether rate so preferred are : Yes/No  
applicable for part quantities.

PLACE:

**SIGNATURE OF BIDDER**

DATE:

NAME IN FULL

DESIGNATION STATUS

FIRM/COMPANY SEAL

## 12. SCHEDULE - II

### PART 'C': TECHNICAL INFORMATION

(Strike off whichever is not applicable. Separate sheets should be used. Wherever necessary)

- |     |  |                                    |
|-----|--|------------------------------------|
| 01. | Whether material of feredis exactly as per technical specification   | :Yes/No                            |
| 02. | Whether the copies of orders received during last 3 years from other State Nodal Agency or from other Organization for similar materials details) enclosed.                            | :Yes/No<br>(if yes, give details)  |
| 03. | Whether performance certificate from such Organization regarding Supplies is enclosed.   | :Yes/No<br>(if yes, give details)  |
| 04. | Whether pamphlets/technical details literatures along with drawing etc. furnished with the offer   | : Yes/No<br>(if yes, give details) |
| 05. | Whether the BIDDER agrees to furnish material test certificates in respect of chemical composition and physical properties from Govt./ Govt. approved lab with each batch of supplies. | :<br>Yes/No                        |
| 06. | Whether the BIDDER has furnished details of manufacturing equipment's and short history of plant   | : Yes/No<br>(if yes, give details) |
| 07. | Whether details of manufacturing process furnished with offer.   | : Yes/No<br>(if yes, give details) |
| 08. | a)Whether all testing facilities are available.  | :<br>Yes/No                        |
- If so, give details and in case of non-availability of facilities indicate approved lab available in surrounding areas where tests are proposed to be conducted.

PLACE

**SIGNATURE OF BIDDER**

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL



### 13. SCHEDULE - III

#### TECHNICAL DEVIATIONS

From,  
**BIDDER Name & Address -**

To,  
**The CE,  
CREDA,  
HO,  
Raipur**

**Sub – Technical Deviations.**

Dear Sir,

The technical deviations & variations to the specifications stipulated in the EoI, for the item quoted are as under -

<b>Sl. No. Condition</b>	<b>Clause No. of EoI document</b>	<b>Page No. EoI deviations</b>	<b>Statement of variations</b>
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2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and other conditions. Variation/deviations etc. if found, elsewhere in our offer should not be given any considerations while finalizing the EoI.

PLACE

**SIGNATURE OF BIDDER**

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

\* **NOTE**-Continuation sheet of like size & format may be used as per bidder's requirements and shall be annexed to this schedule.



**14. SCHEDULE -IV**  
**PASTEXPERIENCE**

**From :**

Bidder's Name & Address-

To,

**The CE,  
CREDA,  
HO,  
Raipur**

**Sub – Performance/Past**

**Experience. Dear Sir,**

We furnish herewith the record of our performance and experience as follows -

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<b>Sl.No. Purchaser's Name &amp;Address</b>	<b>Order No. Date</b>	<b>Work Qty.</b>	<b>Value of Order</b>
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PLACE

**SIGNATURE OF BIDDER**

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

**\*NOTE-**Photocopy of the orders & performance reports received from other State Agencies/Govt. Undertakings etc. should be enclosed.



### 15. ANNEXURE – “B”

Ref. No.....

Date.....

#### Certificate of Completion

This is to certify that **Name of Bidder, Address of Registered Office** has successfully completed the Similar Civil Work of Name of Agency at various locations in State, as per following details–

Name of Work	Govt. Department name & State	Completion date/Year	Amount of Work
<b>Total -</b>			
<b>Total Order Amount -</b>			

This workmanship and performance of the systems are found satisfactory.

**Seal & Sign (Authorized Signatory)**



**END**