

PLW/PATIALA

Title: Schedule of Requirement (SOR) for Supply of harnessed cable for DETC/US.	PLW/DETC/Harnessed Cable/SOR/002
	Date:-03.08.2023
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1. Scope:

- 1.1 The scope of this specification covers the manufacturing and supply of harnessed cables of DETC along with its accessories.

2. Scope of Supply:

- 2.1 Firm shall supply complete set of harnessed cable looms for DETC as per **Annexure 'A'**.
- 2.2 Firm shall supply required materials i.e., SD Sleeves, lugs, DTMS etc. for open end of harnessed cable looms in loose condition, as specified in Table-I of **Annexure 'A'**.
- 2.3 Firm shall supply required hardware as specified in Table-I of **Annexure 'A'**.
- 2.4 Firm shall supply conduits and cable jackets of all size in appropriate rolls as per **Annexure 'A'**.
- 2.5 Cables of following harness number shall be bunched in single 40 mm cable jacket (Total-35 Nos). Refer drawing number DETC/US-7-0-040, Annexure 'A'.

Harness No.	1	2	4	5	6	17	18	19	20	22
S. No.	-	4	4	-	-	2	1,3	-	-	-
No. of cable	04	04	02	08	02	04	04	02	02	03

3. Submission of Tender/Quotation:

- 3.1 The tenderer shall give sufficient information to prove that his factory has adequate facilities and capacity to manufacture and supply the complete set of harnessed cable with quality of materials and workmanship meeting technical requirements of this specification and latest version of STR No. CLW/ (2017)/ELDO/ (E)/STR/01, Rev. 0. or RCF/EL/0015-Rev D (2020)
- 3.2 Offer shall be considered incomplete and liable to be rejected unless all information is furnished.

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4. Quality assurance:

- 4.1 Items for which the harness supplier is not an approved source itself as per latest UVAM Vendor Directory (VD), the supplier shall have to procure those items from the approved sources as per latest UVAM VD:

SN	Category of Items	Drg. No. / Specification No.	UVAM ID
1	E-Beam Cables	ELRS/SPEC/ELC/ 0019, Rev '4' & STR: RDSO/2017/EL/STR/0087, Rev. 0(Electron Beam Irradiation curing).	3100270
2	2-Core Screened Cable, 2.5 Sq mm	CLW/ES/3/0459. ALT-C	3100272
3	Flexible Conduits, Straight Connectors and end fitting straight	RDSO/PE/SPEC/AC/0138-2009, REV-1	2400041
4	Nylon Cable tie	CLW/ES/C-54 ,Alt B	2100917
5	SS Hardware	CLW/MS/3/040 ALT-14,CLW/MS/10/053 ALT-06	2100233

- 4.2 All other items, not appearing in UVAM VD, are to be procured from successful suppliers of the subject item, to any of the PUs of Indian Railways, against regular order in the preceding five years. Documentary evidence towards such successful past performance shall be made available by the firm, in the form of Railway POs and R/Notes. In case, the firm wants to procure any item from any other source, prior approval of PLW Design office may be taken, giving proper justification.
- 4.3 Proper tools shall be used for manufacturing harnessed cables.
- 4.4 Technical and testing parameter of all items appearing in **Annexure 'A'** shall be as per **Annexure 'B'**.
- 4.5 For Wire end ferrules, crimping sockets, Lugs, cable jackets and other supporting material mentioned in **Annexure 'A'**, firm shall ensure quality/standard parameters regarding technical testing and performance of each item and crimped interfaces. Firm shall ensure that at any stage of manufacturing of cable harness or its auxiliary/supporting material, quality cannot be compromised.

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- 4.6 To ascertain the quality of material, test certificates of material from OEM are to be submitted to PLW. However, if required, PLW reserves the right to inspect material at OEM's premises in the presence of PLW representatives to ensure the quality of material.
- 4.7 Material for Open end (i.e. N side) should be provided by firm to PLW in loose condition and suitably packed (with individual item identification) to prevent any transit/storage damages.
- 4.8 All closed ends (i.e. Y side) as mentioned in the **Annexure 'A'** must be properly crimped and covered with Shrink-down Sleeve of appropriate length.
- 4.9 Cable marking-SD sleeve, color yellow shall be used for DTMS and thereafter transparent SD sleeve to cover the DTMS of appropriate size. Cable Marker (Printed DTMS) to be aligned during application on cable in such a way that it should be clearly visible and readable.
- 4.10 Transparent SD sleeve of proper size shall be used to cover crimped lug and wire interface.
- 4.11 SD sleeve of Yellow-Green color of proper size shall be used to cover crimped lug of Earthing cable (marked as 'E' cable).
- 4.12 Identification/Marking on each cable Looms should be as per cable number mentioned in **Annexure 'A'**
- 4.13 List of material requirement given in **Annexure 'A'** is for general guidance and indicative only. There can be minor variations in requirement of material which should be brought out by firm during execution of work for scrutiny and approval of PLW.
- 4.14 Firm should have traceability up to component level.
- 4.15 Firm to provide OEM's test reports for all accessories used in the harness.
- 4.16 For manufacturing of DETC harnessed cable, firm may visit ECS shop of PLW for sample reference.

5. **Approval of sample:**

- 5.1 The first time supplier shall make available one prototype of item for inspection and prototype test at its premises.
- 5.2 The stage Inspection of manufacturing process being adopted to be demonstrated by firm to representative of PLW during prototype inspection.

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- 5.3 During type test or routine test if it is considered necessary by PLW's authorized representative to carry out any further tests or trials, the supplier will arrange for the same by quickest means.
- 5.4 Firm shall supply one first sample set for fitment before Regular/bulk supply. Further supply shall be intimated after approval of first sample set. If any rectification required, supplier must incorporate these changes in all future supplies. Any additional quantity or other accessories which may be required for completion of harnessed cable looms of DETC will be supplied by the firm free of cost, if notified by PLW after trial fitment of First Sample.
- 5.5 Successful tenderer may collect any other technical details/ drawings from PLW Design office, if required as per schedule of items.

6. Tests:

Type test and Routine test shall be carried out according to relevant internationals/Indian standards.

- 6.1 **Type test:** All the type tests, mentioned in clause 6.5 shall be carried out on prototype unit.
- 6.2 **Routine test:** Routine test mentioned in clause 6.5 shall be carried out on each set by the manufacturer at his works to ensure compliance with the specification and drawings.
- 6.3 Test protocol shall be submitted by firm for approval before proceeding prototype test.
- 6.4 A copy of the internal test report, conducted by the firm shall be supplied to inspecting authority during type test and routine test.

6.5 Table for tests:

Test for harnessed cables at firm's premises:

S. No.	Tests	Type Test	Routine test
1	Dimension And Visual Inspection	Yes	Yes
2	General Concerning Testing	Yes	Yes
3	Checking Of Electrical Continuity	Yes	Yes
4	Insulation Impedance Test	Yes	Yes

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5	Millivolt Drop Test	Yes	Yes(a)
6	Pull out And Contact Pressure Test	Yes	Yes (b)
7	Tensile Strength	Yes	Yes (b)
8	Micrograph Test	Yes	Yes (b)
9	Crimp Height And Width Measurement Test	Yes	Yes (b)
10	Voltage Withstand Test	Yes	Yes
11	Test for crimping sockets	Yes	Yes
12	Originality of the bill of material with proof of the invoices	Yes	Yes

(a) In Routine Test, Millivolt drop test shall be carried out on 5% of quantity or minimum 01 (One) set.

(b) Being destructive test, Pull out and contact pressure Test, Tensile Strength Test, Micrograph Test and Crimp Height and Width Measurement Test shall be carried out on prepared samples instead of Harness Cables.

7. Packing:

- 7.1 Packing of harness shall be done as per standard packing practices to the satisfaction of railways. Harness shall be bunched together and shall be supplied as single unit per DETC. Each harness shall be duly bunched individually and legibly marked as per detailed specified in **Annexure 'A'**.
- 7.2 Each harness bunch/ cable should be wrapped with waterproof material to avoid water/moisture ingress.
- 7.3 Harness should be packed in wooden box of proper length.
- 7.4 Wooden box should have sufficient clearance at bottom for fork lifting.
- 7.5 Each box should be marked with packing particulars on front side so that packing material on particular box can be identified easily.
- 7.6 Harnessed cables to be packed separately for each Drawing Set, i.e. DETC/US-7-0-039, DETC/US-7-0-040 and DETC/US-7-0-046 as mentioned in **Annexure 'A'**.

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- 7.7 Loose material (as per Table-I) of different types should be separately packed with proper identification and quantity marked.

8. Enclosures:

8.1 Annexure 'A' : 'Scope of supply of harnessed cables for DETC'

{ Comprises of





(i) Drg. No. 231-7-0-039

(ii) Drg. No. 231-7-0-040

(iii) Drg. No. 231-7-0-046

(iv) Table-I }

8.2 Annexure 'B' : Technical and testing requirement of Annexure 'A'

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Scope of Supply of Harness cable for DETC

HARNESS CHART FOR ROOF (DETCS/US-7-0-018)

Sl. No.	Cable Number	Location	From		Location	To		Cable Size (in Sq. mm)	No. of Cable	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks
			Log Type	Charging Station (Y/N)		Log Type	Charging Station (Y/N)						
1	1. EL+J+	CONTROL CUBICLE CAB-1	WIRE END FERRULE 2.5-12BU	Y	JB-5	WIRE END FERRULE 2.5-12BU	Y	AGEW2.5	3	6.5		10mmx0.5mtr	-
	1. EL-J-		WIRE END FERRULE 2.5-12BU	Y		WIRE END FERRULE 2.5-12BU	Y		3	6.5			-
	1. EL+J+	JB-5	WIRE END FERRULE 2.5-12BU	Y	JB-4	WIRE END FERRULE 2.5-12BU	Y		3	3		20mmx2.5mtr	-
	1. EL-J-		WIRE END FERRULE 2.5-12BU	Y		WIRE END FERRULE 2.5-12BU	Y		3	3			-
	1. EL+J+	JB-4	WIRE END FERRULE 2.5-12BU	Y	JB-3	WIRE END FERRULE 2.5-12BU	Y		3	8.5		20mmx0.5mtr	-
	1. EL-J-		WIRE END FERRULE 2.5-12BU	Y		WIRE END FERRULE 2.5-12BU	Y		3	8.5			-
	1. EL+J+	JB-3	WIRE END FERRULE 2.5-12BU	Y	JB-2	WIRE END FERRULE 2.5-12BU	Y		3	6.5		10mmx0.5mtr	-
	1. EL-J-		WIRE END FERRULE 2.5-12BU	Y		WIRE END FERRULE 2.5-12BU	Y		3	6.5			-
	1. EL+J+	JB-2	WIRE END FERRULE 2.5-12BU	Y	JB-1 (FOR KITCHEN & BATH ROOM)	WIRE END FERRULE 2.5-12BU	Y		3	3		20mmx2.5mtr	-
	1. EL-J-		WIRE END FERRULE 2.5-12BU	Y		WIRE END FERRULE 2.5-12BU	Y		3	3			-
2	EL+	JB-1 (FOR KITCHEN & BATH ROOM)	WIRE END FERRULE 2.5-12BU	Y	LL1SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	3.5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL2SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	3.5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL3SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL4SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	2.3			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL1TW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	EXPAN1SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	FAN1SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	FAN2SW	IC7/SK-7-2-52B/ITEM 23-AM	Y		1	5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL1	WIRE END FERRULE PIN TYPE CP27	Y		1	4.5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL2	WIRE END FERRULE PIN TYPE CP27	Y		1	4.5			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL3	WIRE END FERRULE PIN TYPE CP27	Y		1	3			-
	EL+		WIRE END FERRULE 2.5-12BU	Y	LL4	WIRE END FERRULE PIN TYPE CP27	Y		1	3.3			-


JE/LDO


JE/LDO


W/M/Design


SSE/MP5-2


W/M/Plg


JE/ECS


SSE/ECS


AWM/ECS

Wiring at No.	Sr. No.	Cable Number	From			To			Cable Size (IN SQ. MM)	No. of Cable	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks
			Location	Log Type	Circling Status (Y/N)	Location	Log Type	Circling Status (Y/N)						
2	13	EL-		WIRE END FERRULE 2.5-12BU	Y	NL1	WIRE END FERRULE PIN TYPE CP27	Y	40KW2.5	1	2.5	NW17 (20mm METRIC THREAD) x 1mtr NW17 (20mm METRIC THREAD) x 1.5mtr NW23 (25mm METRIC THREAD) x 4.5mtr		-
	14	F-		WIRE END FERRULE 2.5-12BU	Y	FAN1 CON.	WIRE END FERRULE 2.5-12BU	N		1	4			-
	15	F-		WIRE END FERRULE 2.5-12BU	Y	FAN2 CON.	WIRE END FERRULE 2.5-12BU	N		1	4			-
	16	F-		WIRE END FERRULE 2.5-12BU	Y	100VA INV.1 (EL,FAN)	WIRE END FERRULE 2.5-12BU	N		1	5.5			-
	17	EX F+	EXFAN1SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	100VA INV.1 (EL,FAN)	WIRE END FERRULE 2.5-12BU	Y		1	3.5			-
	18	LL1	LL1SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	LL1	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	19	LL2	LL2SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	LL2	WIRE END FERRULE PIN TYPE CP27	Y		1	6.75			-
	20	LL3	LL3SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	LL3	WIRE END FERRULE PIN TYPE CP27	Y		1	4.5			-
	21	LL4	LL4SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	LL4	WIRE END FERRULE PIN TYPE CP27	Y		1	4			-
	22	NL1	NL1SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	NL1	WIRE END FERRULE PIN TYPE CP27	Y		1	6.5			-
	23	EX F1+, EX F1-	100VA INV.1 (EL,FAN)	WIRE END FERRULE 2.5-12BU	Y	EX FAN1	WIRE END FERRULE 2.5-12BU	Y		2	8			-
	24	F1	FAN1SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	FAN1CON.	WIRE END FERRULE PIN TYPE CP27	Y		1	9.8			-
	25	F2	FAN2SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y	FAN2 CON.	WIRE END FERRULE PIN TYPE CP27	Y		1	5.5			-
3	26	F1, F-	FAN1CON.	WIRE END FERRULE 1.5-8BK	N	FAN1	WIRE END FERRULE 1.5-8BK	N	40KW1.5	2	-			Only log required
	27	F2, F-	FAN2 CON.	WIRE END FERRULE 1.5-8BK	N	FAN2	WIRE END FERRULE 1.5-8BK	N		2	-			
	1	EL+		WIRE END FERRULE 2.5-12BU	Y	LL1SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	7.5			-
	2	EL+		WIRE END FERRULE 2.5-12BU	Y	LL2SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	2.5			-
	3	EL+		WIRE END FERRULE 2.5-12BU	Y	LL3SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	2.5			-
	4	EL+		WIRE END FERRULE 2.5-12BU	Y	LL4SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	2.5			-
	5	EL+		WIRE END FERRULE 2.5-12BU	Y	LL5SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	2.5			-
	6	EL+		WIRE END FERRULE 2.5-12BU	Y	NL2SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	2.5			-
	7	F+		WIRE END FERRULE 2.5-12BU	Y	EXFAN2SW	IC7/SK-7-2-S2L/ITEM 23-MM	Y		1	2.5			-
	8	L-		WIRE END FERRULE 2.5-12BU	Y	LL5	WIRE END FERRULE PIN TYPE CP27	Y		1	2			-


JE/LDO


JE/LDO


WM/Design


SSE/MPS-2


WMA/Mg.


JE/ECS


SSE/ECS


AWM/ECS

Annexure 'A'

Forme 26 No.	Sr. No.	Cable Number	From			To			Cable Size IN SQ. MM	No. of Cable	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks
			Location	Log Type	Circling Status (Y/N)	Location	Log Type	Circling Status (Y/N)						
B	9	EL-	IB-2 (2 BERTH ROOM & LAVATORY)	WIRE END FERRULE 2.5-12BU	Y	LL6	WIRE END FERRULE PIN TYPE CP27	Y	40KW2.5	1	3.5	NW17 (20mm METRIC THREAD) x 6.5mm NW17 (20mm METRIC THREAD) x 2mm NW17 (20mm METRIC THREAD) x 3mm		-
	10	L-		WIRE END FERRULE 2.5-12BU	Y	LL7	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	11	EL-		WIRE END FERRULE 2.5-12BU	Y	LL8	WIRE END FERRULE PIN TYPE CP27	Y		1	3.8			-
	12	EL-		WIRE END FERRULE 2.5-12BU	Y	LL9	WIRE END FERRULE PIN TYPE CP27	Y		1	5			-
	13	EL-		WIRE END FERRULE 2.5-12BU	Y	NL2	WIRE END FERRULE PIN TYPE CP27	Y		1	2			-
	14	F ₁ , F-		WIRE END FERRULE 2.5-12BU	Y	BR, FAN1	WIRE END FERRULE PIN TYPE CP27	Y		2	2.5			-
	15	F ₂ , F-		WIRE END FERRULE 2.5-12BU	Y	BR, FAN2	WIRE END FERRULE PIN TYPE CP27	Y		2	4			-
	16	F-		WIRE END FERRULE 2.5-12BU	Y	300VA INV 2 EX FAN2	WIRE END FERRULE PIN TYPE CP27	Y		1	5.5			-
	17	EX F+	EXPANISW	IC7/SK-7-2-528/ITEM 23-MM	Y	300VA INV 2 EX FAN2	WIRE END FERRULE PIN TYPE CP27	Y		1	7			-
	18	LL5	LL5SW	IC7/SK-7-2-528/ITEM 23-MM	Y	LL5	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	19	LL6	LL6SW	IC7/SK-7-2-528/ITEM 23-MM	Y	LL6	WIRE END FERRULE PIN TYPE CP27	Y		1	4.5			-
	20	LL7	LL7SW	IC7/SK-7-2-528/ITEM 23-MM	Y	LL7	WIRE END FERRULE PIN TYPE CP27	Y		1	4			-
	21	LL8	LL8SW	IC7/SK-7-2-528/ITEM 23-MM	Y	LL8	WIRE END FERRULE PIN TYPE CP27	Y		1	4.5			-
	22	LL9	LL9SW	IC7/SK-7-2-528/ITEM 23-MM	Y	LL9	WIRE END FERRULE PIN TYPE CP27	Y		1	5.5			-
A	23	NL2	NL2SW	IC7/SK-7-2-528/ITEM 23-MM	Y	NL2	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	24	EX F2+, EX F2-	300VA INV 2 EX FAN2	WIRE END FERRULE PIN TYPE CP27	N	EX FAN2	WIRE END FERRULE PIN TYPE CP27	N		2	-			Only log required
	1	EL+	IB-3 (300VA DA SET & CABLE DRUM AREA)	WIRE END FERRULE 2.5-12BU	Y	LL10SW	IC7/SK-7-2-528/ITEM 23-MM	Y	40KW2.5	1	3	NW17 (20mm METRIC THREAD) x 7.5mm NW17 (20mm METRIC THREAD) x 6.5mm		-
	2	L+		WIRE END FERRULE 2.5-12BU	Y	LL11SW	IC7/SK-7-2-528/ITEM 23-MM	Y		1	3			-
	3	L+		WIRE END FERRULE 2.5-12BU	Y	LL12SW	IC7/SK-7-2-528/ITEM 23-MM	Y		1	3			-
	4	EL+		WIRE END FERRULE 2.5-12BU	Y	LL13SW	IC7/SK-7-2-528/ITEM 23-MM	Y		1	3			-
	5	L-		WIRE END FERRULE 2.5-12BU	Y	LL10	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	6	EL-		WIRE END FERRULE 2.5-12BU	Y	LL11	WIRE END FERRULE PIN TYPE CP27	Y		1	5.5			-
	7	EL-		WIRE END FERRULE 2.5-12BU	Y	LL12	WIRE END FERRULE PIN TYPE CP27	Y		1	3			-
	8	L-		WIRE END FERRULE 2.5-12BU	Y	LL13	WIRE END FERRULE PIN TYPE CP27	Y		1	5			-


JE/LDO


JE/LDO


WM/Design


SSE/MPS-2


WM/P&E


JE/ECS


SSE/ECS


AWM/ECS

Serial No.	Sr. No.	Cable Number	From			To			Cable Size (W DG, MM)	No. of Cable	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks
			Location	Log Type	Originating Station (VMS)	Location	Log Type	Originating Station (VMS)						
4	9	P+, F-		WIRE END FERRULE 2.5-12BU	Y	BR FANKI	WIRE END FERRULE PIN TYPE CP27	Y		2	4			-
	10	LL10	LL10SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL10	WIRE END FERRULE PIN TYPE CP27	Y		1	5.5			-
	11	LL11	LL11SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL11	WIRE END FERRULE PIN TYPE CP27	Y		1	7.5			-
	12	LL12	LL12SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL12	WIRE END FERRULE PIN TYPE CP27	Y		1	4			-
	13	LL13	LL13SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL13	WIRE END FERRULE PIN TYPE CP27	Y		1	6.5			-
5	1	EL+	JB-4 (MATERIAL CABIN)	WIRE END FERRULE 2.5-12BU	Y	LL14SW	ICP/SK-7-2-528/ITEM 23-444	Y	40KW2.5	1	8	NW17 (20mm METRIC THREAD) x 5mtr NW17 (20mm METRIC THREAD) x 1.5mtr		-
	2	EL+		WIRE END FERRULE 2.5-12BU	Y	LL15SW	ICP/SK-7-2-528/ITEM 23-444	Y		1	2.9			-
	3	EL+		WIRE END FERRULE 2.5-12BU	Y	LL16SW	ICP/SK-7-2-528/ITEM 23-444	Y		1	2.5			-
	4	EL-		WIRE END FERRULE 2.5-12BU	Y	LL14	WIRE END FERRULE PIN TYPE CP27	Y		1	5			-
	5	EL-		WIRE END FERRULE 2.5-12BU	Y	LL15	WIRE END FERRULE PIN TYPE CP27	Y		1	1.3			-
	6	EL-		WIRE END FERRULE 2.5-12BU	Y	LL16	WIRE END FERRULE PIN TYPE CP27	Y		1	3			-
	7	P+, F-		WIRE END FERRULE 2.5-12BU	Y	BR FANKI	WIRE END FERRULE PIN TYPE CP27	Y		2	3			-
	8	LL14	LL14SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL14	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	9	LL15	LL15SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL15	WIRE END FERRULE PIN TYPE CP27	Y		1	8			-
	10	LL16	LL16SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL16	WIRE END FERRULE PIN TYPE CP27	Y		1	5			-
6	1	EL+	JB-5 (WORKSHOP)	WIRE END FERRULE 2.5-12BU	Y	LL17SW	ICP/SK-7-2-528/ITEM 23-444	Y	40KW2.5	1	2.3	NW17 (20mm METRIC THREAD) x 3.5mtr NW17 (20mm METRIC THREAD) x 1mtr		-
	2	EL+		WIRE END FERRULE 2.5-12BU	Y	LL18SW	ICP/SK-7-2-528/ITEM 23-444	Y		1	2.5			-
	3	EL+		WIRE END FERRULE 2.5-12BU	Y	LL19SW	ICP/SK-7-2-528/ITEM 23-444	Y		1	4.5			-
	4	EL-		WIRE END FERRULE 2.5-12BU	Y	LL17	WIRE END FERRULE PIN TYPE CP27	Y		1	1.5			-
	5	EL-		WIRE END FERRULE 2.5-12BU	Y	LL18	WIRE END FERRULE PIN TYPE CP27	Y		1	2.5			-
	6	EL-		WIRE END FERRULE 2.5-12BU	Y	LL19	WIRE END FERRULE PIN TYPE CP27	Y		1	3.5			-
	7	P+, F-		WIRE END FERRULE 2.5-12BU	Y	BR FANKI	WIRE END FERRULE PIN TYPE CP27	Y		2	3			-
	8	LL17	LL17SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL17	WIRE END FERRULE PIN TYPE CP27	Y		1	8			-
	9	LL18	LL18SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL18	WIRE END FERRULE PIN TYPE CP27	Y		1	4.5			-
	10	LL19	LL19SW	ICP/SK-7-2-528/ITEM 23-444	Y	LL19	WIRE END FERRULE PIN TYPE CP27	Y		1	2.5			-


JE/LDO


JE/LDO


WMM/Design


SSE/MPS-2


WMM/Plg


JE/ECS


SSE/ECS


AWM/ECS

Annexure 'A'

Sl. No.	Cable Number	Location	From		To		Cable Size IN SQ. MM	No. of Cable	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks
			Log Type	Cleaning Status (Y/N)	Log Type	Cleaning Status (Y/N)						
7	1	LLD, 320	WIRE END FERRULE 2.5-12BU	Y	LLD	WIRE END FERRULE PIN TYPE CP27	Y	40KW2.5	2	7	10mmX3mtr	
	2	LLG, L-	WIRE END FERRULE 2.5-12BU	Y	LLG	WIRE END FERRULE PIN TYPE CP27	Y		2	8	10mmX1mtr	
	3	CL, L-	WIRE END FERRULE 2.5-12BU	Y	CL	WIRE END FERRULE PIN TYPE CP27	Y		2	7	10mmX3mtr	
	4	CFD, 320	WIRE END FERRULE 2.5-12BU	Y	CFD CON.	WIRE END FERRULE PIN TYPE CP27	Y		2	9	10mmX1mtr	
	5	CFD, F-	WIRE END FERRULE 2.5-12BU	Y	CFD CON.	WIRE END FERRULE PIN TYPE CP27	Y		2	7	10mmX3mtr	
	6	CFD, 320	WIRE END FERRULE 1.5-8BK	N	CFD	WIRE END FERRULE 1.5-8BK	N	40KW1.5	2	-		Only log required
	7	CFD, F-	WIRE END FERRULE 1.5-8BK	N	CFD	WIRE END FERRULE 1.5-8BK	N		2	-		
	8	SPLD, 320	WIRE END FERRULE 2.5-12BU	Y	SPLD	WIRE END FERRULE PIN TYPE CP27	Y	40KW2.5	2	7	10mmX3mtr	
	9	SPUG, 320	WIRE END FERRULE 2.5-12BU	Y	SPUG	WIRE END FERRULE PIN TYPE CP27	Y		2	9	10mmX1mtr	
8	1	LLD, 320	WIRE END FERRULE 2.5-12BU	Y	LLD	WIRE END FERRULE PIN TYPE CP27	Y	40KW2.5	2	8		
	2	LLG, L-	WIRE END FERRULE 2.5-12BU	Y	LLG	WIRE END FERRULE PIN TYPE CP27	Y		2	7		
	3	CL, L-	WIRE END FERRULE 2.5-12BU	Y	CL	WIRE END FERRULE PIN TYPE CP27	Y		2	8		
	4	CFD, 320	WIRE END FERRULE 2.5-12BU	Y	CFD CON.	WIRE END FERRULE PIN TYPE CP27	Y		2	9		
	5	CFD, F-	WIRE END FERRULE 2.5-12BU	Y	CFD CON.	WIRE END FERRULE PIN TYPE CP27	Y		2	7		
	6	CFD, 320	WIRE END FERRULE 1.5-8BK	N	CFD	WIRE END FERRULE 1.5-8BK	N	40KW1.5	2	-		Only log required
	7	CFD, F-	WIRE END FERRULE 1.5-8BK	N	CFD	WIRE END FERRULE 1.5-8BK	N		2	-		
	8	SPLD, 320	WIRE END FERRULE 2.5-12BU	Y	SPLD	WIRE END FERRULE PIN TYPE CP27	Y	40KW2.5	2	7		
	9	SPUG, 320	WIRE END FERRULE 2.5-12BU	Y	SPUG	WIRE END FERRULE PIN TYPE CP27	Y		2	9		
9	1	424,420,E	ICJ/SK-7-2-166-CA/33	Y	P.N/L	ICJ/SK-7-2-166-CA/33	Y	40KW2.5	3	4		
	2	424,420,E	WIRE END FERRULE 2.5-12BU	Y	SOCKET FLOOD LIGHT-1		Y		2	15		20mm X 14.5 mtr
	3	424,420,E	WIRE END FERRULE 2.5-12BU	Y	SOCKET FLOOD LIGHT-2	424,420-"WIRE END FERRULE 2.5-12BU"	Y		2	13		20mm X 12.5 mtr
	4	424,420,E	WIRE END FERRULE 2.5-12BU	Y	SOCKET FLOOD LIGHT-3		Y		2	8		20mm X 7.5 mtr
	5	424,420,E	WIRE END FERRULE 2.5-12BU	Y	SOCKET FLOOD LIGHT-4	E- ICJ/SK-7-2-528, ITEM-20-345	Y		2	9		20mm X 8.5 mtr
	6	424,420,E	WIRE END FERRULE 2.5-12BU	Y	SOCKET FLOOD LIGHT-5 (GENERATION ROOM)		Y		2	6		20mm X 5.5 mtr
	7		ICJ/SK-7-2-528, ITEM- 20-345	Y	KEY HOLE SOCKET	WIRE END FERRULE 2.5-12BU	Y	40KW 2.5	30	2		20mm X 10 mtr


JE/LDO


JE/LDO


WMA/Design


SSE/MP5-2


WMA/Plg


JE/ECS


SSE/ECS


AWM/ECS

Horse No.	Dr. No.	Cable Number	From			To			Cable Size (H SQ. MM)	No. of Cables	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks
			Location	Log Type	Charging Status (Y/N)	Location	Log Type	Charging Status (Y/N)						
10	1	401, 402, 403, 430	RAM CONTROL PANEL	K7/SK-7-2-160-CE/U	Y	20KVA DA SET	K7/SK-7-2-160-CE/32	N	40KW10	4	10	MW23 (25mm METRIC THREAD) x 8.5 mm		-
	2	407, 408, 409, 410	RAM CONTROL PANEL	K7/SK-7-2-160-CA/U	Y	WORKSHOP MCR (DRILLING M/C)	K7/SK-7-2-160-CA/32	N	40KW6	6	12.5			-
	3	31, 32, 33, 34, 35, 36, 39, 41, 43, 45, 46, 48, 49, 5802, 5861, 5871, 5872, 5873, 5882, 5883, 5884	RAM CONTROL PANEL	WIRE END FERRULE 2.5-12BU	Y	ROOF JB FOR RAM PLATFORM	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	20	14			-
	4	RB, RL1		WIRE END FERRULE 2.5-12BU	Y		WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	13			-
	5	87, 87, 87, 87, 87		WIRE END FERRULE 2.5-12BU	Y	RAM SWINELLING MOTOR	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	5	14			-
	6	80, 81, 81, 81		WIRE END FERRULE 2.5-12BU	Y	MAN HYDRAULIC MOTOR	WIRE END FERRULE 2.5-12BU	Y	40KW4	4	11			-
	7	41, 31, 31, 31, 31, 31		WIRE END FERRULE 2.5-12BU	Y	SOLENOID	WIRE END FERRULE 2.5-12BU	Y	40KW1.5	3	11			-
	8	32, 50		WIRE END FERRULE 2.5-12BU	Y	PRESSURE SWITCH	WIRE END FERRULE 2.5-12BU	Y	40KW1.5	2	11			-
	9	88, 88, 88, 88		WIRE END FERRULE 2.5-12BU	Y	230V AC SOCKET 1 TO 4	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	9	14			-
	10	1602, 1736	ROOF JB FOR RAM PLATFORM	WIRE END FERRULE 2.5-12BU	Y	EMF OFF PB ON LIFTING PLATFORM LEFT SIDE	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	14	MW23 (25mm METRIC THREAD) x 11 mm		-
	11	1602, 1736		WIRE END FERRULE 2.5-12BU	Y	EMF OFF PB ON LIFTING PLATFORM RIGHT SIDE	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	9			-
11	1	306, 360	CONTROL CUBICLE CAB-2	WIRE END FERRULE 2.5-12BU	Y	INSTRUMENT PANEL TELEPHONE EXCHANGE 3 BIRTH ROOM	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	10	-	30mm X 8.5mm	-
	2	433	INSTRUMENT PANEL TELEPHONE EXCHANGE 3 BIRTH ROOM	-	-	DRIVER DESK (HANDSET)	-	-	2 PAIRW.5	1	25	-	-	-
	3	433		-	-	DRIVER DESK (HANDSET)	-	-	2 PAIRW.5	1	8.3	-	-	-
	4	433		-	-	2 BIRTH ROOM (HANDSET)	-	-	2 PAIRW.5	1	5	-	-	-
	5	434		-	-	SW. GROUP AREA (HANDSET)	-	-	2 PAIRW.5	1	15.5	-	-	-
	6	435		-	-	MATERIAL CABIN (HANDSET)	-	-	2 PAIRW.5	1	19	-	-	-
12	1	CS4, CS-	CONTROL CUBICLE CAB-2	WIRE END FERRULE 2.5-12BU	Y	110VDC MOBILE CHARGING SOCKET (2 BIRTH ROOM)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	10	-	20mm X 8mm	-
	2	CS4, CS-		WIRE END FERRULE 2.5-12BU	Y	110VDC MOBILE CHARGING SOCKET (3 BIRTH ROOM)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	18	-	20mm X 10mm	-
13	1	1830, 380	CONTROL CUBICLE CAB-1	WIRE END FERRULE 2.5-12BU	Y	PANTO PRL GAUGE OBSERVATION ROOM	K7/SK-7-2-528, ITEM-23-AM	N	40KW2.5	2	12	-	-	-
	2	530		WIRE END FERRULE 2.5-12BU	Y	PANTO MAGNET VALVE OBSERVATION ROOM	K7/SK-7-2-528, ITEM-20-MS	N	40KW2.5	1	12	-	-	-
	3	1728		WIRE END FERRULE 2.5-12BU	Y	PANTO UP/DOWN SW. OBSERVATION ROOM	K7/SK-7-2-528, ITEM-23-AM	N		1	12	-	-	-
	4	1802, 1827		WIRE END FERRULE 2.5-12BU	Y	PANTO GOV.	K7/SK-7-2-528, ITEM-23-AM	N		2	12	-	20mm X 10mm	-
	5	1709	PANTO UP/DOWN SW. OBSERVATION ROOM	K7/SK-7-2-528, ITEM-23-AM	N	PANTO MAGNET VALVE OBSERVATION ROOM	K7/SK-7-2-528, ITEM-20-MS	N		1	-	-	-	Only log required
14	1	1602, 1736	EMERGENCY OFF PB OVER THE ROOF (NEAR OBSERVATION ROOM)	K7/SK-7-2-528, ITEM-23-AM	Y	CONTROL CUBICLE CAB-1	K7/SK-7-2-528, ITEM-23-AM	Y	40KW2.5	2	11	-	-	In same conduit/cable jacket along with Horse No. 13, Sr. No. 4
15	1	LOOP CABLE	CAB DESK-1 SPEEDOMETER PANEL	-	-	CAB DESK-2 SPEEDOMETER PANEL	-	-	2X2.5 SCR CABLE	2	80	-	-	-


JE/LDO


JE/LDO


WNM/Design


SSE/MP5-2


WM/Plg


JE/ECS


SSE/ECS


AWM/ECS

WIRING SCHEDULE													
Sl. No.	Sl. No.	Cable Number	Location	From	To	Cable Size	No. of Cable	Cable length (in meter)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	Remarks		
26	1	1st END- A-BOARD CONTROL PANEL-1 2nd END- A-BOARD DRIVER DESK-2 (1,2,SP,3,4,5,6,7, 1781, 1654, 1653, 1657, 1614, 1636, 1636, 2014, 1632, 1802, 3506)	A-BOARD CONTROL PANEL-1	-	A-BOARD DRIVER DESK-2	40KW2.5X19 CORE	1	30	NW29 (32mm METRIC THREAD x 8 mm)	-	-		
	2	1st END- B-BOARD CONTROL PANEL-1 2nd END- B-BOARD DRIVER DESK-2 (311, 311, 311, 322, 322, 1741, 1743, 1732, 1725, 1601, 2015, 1722, 1724, 1736, CS4, F4, F5, 2016, 1830)	B-BOARD CONTROL PANEL-1	-	B-BOARD DRIVER DESK-2	40KW2.5X19 CORE	1	30	NW29 (32mm METRIC THREAD x 8 mm)	-	-		
	3	1st END- C-BOARD CONTROL PANEL-1 2nd END- C-BOARD DRIVER DESK-2 (1804, 1805, 1806, 1807, SP, 1808, 1809, 1811, 1812, 1814, 1815, SP, 1816, 1817, 1818, 1820, 1821, 1822, 1823)	C-BOARD CONTROL PANEL-1	-	C-BOARD DRIVER DESK-2	40KW2.5X19 CORE	1	30	NW29 (32mm METRIC THREAD x 8 mm)	-	-		
	4	1st END- D-BOARD CONTROL PANEL-1 2nd END- D-BOARD DRIVER DESK-2 (1824, 1861, 1825, 1827, 1831, 1834, 1835, 1744, 1836, 1838, 1862, 1863, 1841, 1845, 1846, 255, 2006, 202, 1734)	D-BOARD CONTROL PANEL-1	-	D-BOARD DRIVER DESK-2	2.5 19 CORE	1	30	NW29 (32mm METRIC THREAD x 8 mm)	-	-		
	5	1st END- E-BOARD CONTROL PANEL-1 2nd END- E-BOARD DRIVER DESK-2 (326, 320, 320, 320, F, I, SP, 290, 296, SP, SP, 380, SP, H, 370, 210, SP, 360, CS-1)	E-BOARD CONTROL PANEL-1	-	E-BOARD DRIVER DESK-2	40KW2.5X19 CORE	1	28	NW29 (32mm METRIC THREAD x 8 mm)	-	-		
	6	Spare Cable	-	-	-	-	40KW2.5X19 CORE	1	30	NW29 (32mm METRIC THREAD x 8 mm)	-	-	
17	1	1802, 1961, 1602, 1736(MP, OFF PR), SP1,SP2	RAM CONTROL PANEL	WIRE END FERRULE 2.5-12BU	Y	CONTROL CUBICLE CAB-1	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	6	16	20mm X 15mm	-
18	1	12V DC	CONTROL MONITOR DESK-2	-	-	CCTV MONITOR DESK-2	-	-	2 PAIR CABLE	1	-	-	Not required/Deleted
	2	-		-	-	-	-	-	-				
	3	12V DC		-	-	-	-	-	-	-			
	4	CATS		-	-	-	-	-	COAXIAL CABLE	1	-	-	
19	1	LCW1-1A, LCW1-2A, LCW1-2B RPM METER CAB-9 (ENGINE 16-2) 175, 176, 329, 175, 180, SCR	CONTROL CUBICLE CAB-2	WIRE END FERRULE 1.5-8BK	Y	RADIATION ROOM (ABOVE ROOF)	ICP/SK-7-2-53L/ITEM- 20-MS	Y	40KW1.5	4	25	30mm X 24mm (90 mm)	-
	2	175, 176, 329, 175, 180, SCR	CONTROL PANEL-1	WIRE END FERRULE 1.5-8BK	Y	CONTROL PANEL-1	ICP/SK-7-2-53L/ITEM- 20-MS	Y	2x1.5 SCR	2	30	-	-
21	1	1636, 1638, 1646, 1648, SP1,SP2	MOTOR SWITCH GROUP (ON BOARD)	ICP/SK-7-2-53L/ITEM- 20-MS	Y	LOAD METER (DCS4-2 T.B CAB-2)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	6	16	20mmX 15mm	-
22	1	337, 360	CONTROL CUBICAL-1	WIRE END FERRULE 2.5-12BU	Y	NVR BOX (CCTV)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	6	20mmX3-3mm	-

JE/LDO

JE/LDO

WSD/Design

SSE/MPS-2

WM/Plg.

JE/ECS

SSE/ECS

AWM/ECS



HARVEST NUMBER	LJO	CABLE NUMBER	FROM			TO			CABLE SIZE (sq. mm)	NUMBER OF CABLE	CABLE LENGTH (m. est)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS
			LOCATION	WIRE TYPE	Circling status (Y/N)	LOCATION	WIRE TYPE	Circling status (Y/N)						
6	1	261, 264	ENGINE-2 TB CONTROL PANEL-1 (CAB-1)	WIRE END FERRULE 2.5-128U	Y	ENGINE-1 HYDRAULIC OIL FLOW SW/TANK-2 ON BOARD	IC3/SK-7-2-166-ITEM 20-MS	N	AGKW2.5	2	21	-	-	-
7	1	E	EARTH LUG	IC3/SK-7-3-166-D13/28	Y	RECTIFIER-1 & 2	IC3/SK-7-2-166-D13/20	Y	AGKW70	4	0.3	-	-	-
	2	E		IC3/SK-7-3-166-D6/38	Y	REGULATOR-1 & 2	IC3/SK-7-2-166-D6/30	Y	AGKW25	4	0.5	-	-	-
	3	E		IC3/SK-7-2-166-D13/38	Y	MOTOR SWITCH GROUP	IC3/SK-7-2-166-D13/20	Y	AGKW70	2	0.3	-	-	-
ON BOARD TO UNDER FRAME														
8	1	R1.Y1.B1	MAIN RECTIFIER-1 (ON BOARD)	IC3/SK-7-3-166-D13/50	N	MAIN ALTERNATOR-1 (POWER PACK-1) U/I	IC3/SK-7-2-166-D13/50	Y	AGKW95	8	11	NW 28(DIA, 32mm METRIC THREAD) x 8 mm	-	-
	2	R2.Y2.B2	MAIN RECTIFIER-2 (ON BOARD)	IC3/SK-7-3-166-D13/50	N	MAIN ALTERNATOR-2 (POWER PACK-1) U/I	IC3/SK-7-2-166-D13/50	Y	AGKW95	8	6	NW 28(DIA, 32mm METRIC THREAD) x 4 mm	-	-
9	1	PLP16A/P11.P15	MOTOR SWITCH GROUP (ON BOARD)	IC3/SK-7-3-166-D14/50	N	MOTOR CONNECTION BOX-1 (BELOW CAB-1) U/I	IC3/SK-7-3-60A, ITEMS-120 DOUBLE HOLE	Y	AGKW120	4	16.5	NW 28(DIA, 32mm METRIC THREAD) x 5 mm	-	-
	2	PLP7.P12.P16	MOTOR SWITCH GROUP (ON BOARD)	IC3/SK-7-3-166-D14/50	N	MOTOR CONNECTION BOX-2 (BELOW CAB-1) U/I	IC3/SK-7-2-60A, ITEMS-120 DOUBLE HOLE	Y	AGKW120	4	17.5	NW 28(DIA, 32mm METRIC THREAD) x 5 mm	-	-
	3	PLP8A/P13.P17	MOTOR SWITCH GROUP (ON BOARD)	IC3/SK-7-3-166-D14/50	N	MOTOR CONNECTION BOX-2 (BELOW CAB-2) U/I	IC3/SK-7-3-60A, ITEMS-120 DOUBLE HOLE	Y	AGKW120	4	6	NW 28(DIA, 32mm METRIC THREAD) x 12 mm	-	-
	4	PLP5.P14.P18	MOTOR SWITCH GROUP (ON BOARD)	IC3/SK-7-3-166-D14/50	N	MOTOR CONNECTION BOX-4 (BELOW CAB-2) U/I	IC3/SK-7-2-60A, ITEMS-120 DOUBLE HOLE	Y	AGKW120	4	9.5	NW 28(DIA, 32mm METRIC THREAD) x 12 mm	-	-
10	1	R11.Y11.B11	REGULATOR CUM REC-1 (ON BOARD)	IC3/SK-7-3-166-D7/38	N	AUX ALTERNATOR-1 JUNCTION BOX (POWER PACK-1)	IC3/SK-7-3-166-D7/38	N	AGKW16	8	19	NW 23(DIA, 25mm METRIC THREAD) x 8 mm	-	-
	2	F1-F3		F1- IC3/SK-7-2-166-CA/2 F1+ IC3/SK-7-2-166-CA/32	N		F1- IC3/SK-7-3-166-CA/2 F1+ IC3/SK-7-2-166-CA/32	N	AGKW8	2	13	30mm x 14 mm	-	-
	3	R21.Y21.B21	REGULATOR CUM REC-2 (ON BOARD)	IC3/SK-7-3-166-D7/38	N	AUX ALTERNATOR-2 JUNCTION BOX (POWER PACK-2)	IC3/SK-7-3-166-D7/38	N	AGKW36	8	15	NW 23(DIA, 25mm METRIC THREAD) x 4 mm	-	-
	4	F2-F3		F2- IC3/SK-7-2-166-CA/2 F2+ IC3/SK-7-3-166-CA/32	N		F2- IC3/SK-7-2-166-CA/2 F2+ IC3/SK-7-3-166-CA/32	N	AGKW8	2	16	30mm x 17 mm	-	-
11	1	200, 201	24V DC BCS (starter battery) (on Board)	IC3/SK-7-3-166-D6/32	Y	24V DC T.B (Observation Room)	IC3/SK-7-2-166-D6/38	Y	AGKW25	2	9	-	-	-
	2	401, 432.E	330 V AC TB CONTROL PANEL (CAB-1)	WIRE END FERRULE 2.5-128U	Y	330V- SINGLE PHASE EXTERNAL CHARGING SOCKET-4U	IC3/SK-7-2-518, ITEM-30-MS	N	AGKW2.5	1	10	-	-	10 mm x 9 mm
	3	200, 201	24V DC BATTERY CHARGER (STARTER BATTERY) (ON BOARD)	IC3/SK-7-3-166-D7/38	Y	24V DC T.B (Observation Room)	IC3/SK-7-2-166-D7/38	Y	AGKW25	2	8.5	-	-	-
ON BOARD TO UNDER FRAME														
12	1	202, 210	BS SWITCH CONTROL PANEL-1 (CAB-1)	IC3/SK-7-3-166-D14/38	N	ENGINE-1 STARTER MOTOR	IC3/SK-7-2-166-D14/50	Y	AGKW120	2	12.5	NW 28(DIA, 32mm METRIC THREAD) x 8 mm	-	-
	2	202, 210	STUD TB CONTROL PANEL-1 (CAB-1)	IC3/SK-7-3-166-D14/38	N	ENGINE-1 STARTER MOTOR	IC3/SK-7-2-166-D14/50	Y	AGKW120	2	16.5	NW 28(DIA, 32mm METRIC THREAD) x 8 mm	-	-
	3	211, 210		IC3/SK-7-3-166-D6/32 OR D6/2	N	BATTERY CHARGING ALTERNATOR ENGINE-1	IC3/SK-7-3-166-D6/32	Y	AGKW25	2	12	MW17 (DIA, 30mm METRIC THREAD) x 4 mm	-	-
	4	232, 210		IC3/SK-7-3-166-D6/32 OR D6/2	N	BATTERY CHARGING ALTERNATOR ENGINE-2	IC3/SK-7-2-166-D6/32	Y	AGKW25	2	23.5	MW17 (DIA, 30mm METRIC THREAD) x 4 mm	-	-


JE/LDO


JE/LDO


WM/Design


SSE/MP5-2


WM/MP5


JE/ECS


SSE/ECS


AWM/ECS

PARALLEL NUMBER	S.NO	CABLE NUMBER	FROM		TO		Cable size (sq. mm)	NUMBER OF CABLE	CABLE LENGTH (in mtr)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS
			LOCATION	WUG TYPE	Emerging status (Y/N)	LOCATION	WUG TYPE					
13	1	CONN C3/1 (83-A) CONN C3/2 (84-A) CONN C3/3 (83-A) CONN C3/5 (83-A) CONN C3/13 (55-A) CONN C3/15 (57-A) CONN C3/16	C3 CONNECTOR ENGINE-1	-	-	ENGINE-1 TB CONTROL PANEL-2 (CAB-1)	-	1.5	17	14.8	-	Not required/Deleted
	2	CONN C3/23 (45-A) CONN C3/24 (46-A) CONN C3/25 (52-A) SCR		-	-	-	-	2 X0.75 SCR	1	14.6	-	
	3	CONN C3/7 (49-A) CONN C3/8 (50-A) CONN C3/11 (56-A) SCR		-	-	H/M RPM METER 1/3 CONTROL PANEL-2 (CAB-1)	-	2 X0.75 SCR	1	14.8	-	
	4	CONN C3/27 (47-A) CONN C3/29 (48-A) CONN C3/11 (53-A) SCR		-	-	S.P.U-2 CONTROL PANEL-1 (CAB-3)	-	2 X0.75 SCR	1	14.6	-	
	5	CONN C3/18 (43-A) CONN C3/20 (44-A) CONN C3/21 (53-A) SCR		-	-	LOC1 (MAGNETIC PICK UP 1/3) CONTROL PANEL-1 (CAB-1)	-	2 X0.75 SCR	1	14.6	-	
14	1	CONN C3/1 (83-B) CONN C3/2 (83-B) CONN C3/3 (83-B) CONN C3/5 (84-B) CONN C3/6 (82-B) CONN C3/3 (83-B) CONN C3/22 (57-B) CONN C3/26	C3 CONNECTOR ENGINE-1	-	-	ENGINE-2 TB CONTROL PANEL-2 (CAB-1)	-	40XWLS	17	19	-	
	2	CONN C3/23 (45-B) CONN C3/24 (46-B) CONN C3/11 (52-B) SCR		-	-	-	-	2 X0.75 SCR	1	19	-	
	3	CONN C3/7 (49-B) CONN C3/8 (50-B) CONN C3/11 (54-B) SCR		-	-	H/M RPM METER 2/3 CONTROL PANEL-2 (CAB-1)	-	2 X0.75 SCR	1	19	-	
	4	CONN C3/27 (47-B) CONN C3/29 (48-B) CONN C3/11 (51-B) SCR		-	-	S.P.U-2 CONTROL PANEL-1 (CAB-3)	-	2 X0.75 SCR	1	19	-	
	5	CONN C3/18 (43-B) CONN C3/20 (44-B) CONN C3/21 (51-B) SCR		-	-	LOC2 (MAGNETIC PICK UP 1/3) CONTROL PANEL-2 (CAB-1)	-	2 X0.75 SCR	1	19	-	
15	1	CONN C3/2A (84-A) CONN C3/3A (85-A) CONN C3/10 (57-A) CONN C3/10A (86-A) CONN C3/10A (70-A) CONN C3/10A (73-A)	C30 CONNECTOR ENGINE-1	-	-	ENGINE-1 TB CONTROL PANEL-1 (CAB-1)	-	40XWLS	11	14.6	-	
	2	CONN C3/2M (75-A) CONN C3/10A (76-A) CONN C3/10M (77-A) SCR		-	-	LOC1 (ACTUATOR) CONTROL PANEL-1 (CAB-1)	-	2 X0.75 SCR	1	14.6	-	
16	1	CONN C3/2A (84-B) CONN C3/3A (85-B) CONN C3/10 (57-B) CONN C3/10A (86-B) CONN C3/10A (70-B) CONN C3/10A (77-B)	C30 CONNECTOR ENGINE-2	-	-	ENGINE-2 TB CONTROL PANEL-1 (CAB-1)	-	40XWLS	11	19	-	
	2	CONN C3/2M (75-B) CONN C3/10A (76-B) CONN C3/10M (77-B) SCR		-	-	LOC2 (ACTUATOR) CONTROL PANEL-2 (CAB-1)	-	2 X0.75 SCR	1	19	-	


JE/LDO


JE/LDO


Wm/Design


SSE/MPS-2


Wm/Plg


JE/ECS


SSE/ECS


AWM/ECS

Annexure 'A'

PANEL NUMBER	S.NO	CABLE NUMBER	FROM		TO		Cable Size (sq. mm)	NUMBER OF CABLE	CABLE LENGTH (in mtr)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS
			LOCATION	WIRE TYPE	LOCATION	WIRE TYPE						
17	1	226, 227, 228, 229	CONTROL PANEL-1 (CAB-1)	WIRE END FERRULE 2.5-12BU	N	LOCAL ON/OFF PB STATION ENGINE-1	IC7/SK-7-2-52B, ITEM-20-M5	4	12	-	-	see schedule of supply (clause 2.5)
	2	234, 235, 237, 238	D-BOARD & E-BOARD CONTROL PANEL-1	WIRE END FERRULE 2.5-12BU	N	LOCAL ON/OFF PB STATION ENGINE-1	IC7/SK-7-2-52B, ITEM-20-M5	4	18	-	-	
18	1	1744, 130	D-BOARD & E-BOARD CONTROL PANEL-2	WIRE END FERRULE 2.5-12BU	N	UNLOADER MAGNETIC VALVE(1)	IC7/SK-7-2-52B, ITEM-20-M5	3	22	-	-	-
	2	1744, 130	D-BOARD & E-BOARD CONTROL DESK-2	WIRE END FERRULE 2.5-12BU	N	UNLOADER MAGNETIC VALVE(2)(UP)	IC7/SK-7-2-52B, ITEM-20-M5	2	6	-	-	
	3	102, 303	MSG TB & CONTROL TB CONTROL PANEL-1 (CAB-1)	WIRE END FERRULE 2.5-12BU	N	EQUIPMENT GOV. (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	2	25	-	-	
19	1	1876 (+)	LOC1 TB CONTROL PANEL-1 (CAB-1)	WIRE END FERRULE 2.5-12BU	N	MAIN ALTERNATOR -1 EXCITER RESISTOR-1 (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	1	21	-	-	see schedule of supply (clause 2.5)
	2	1878 (-)		WIRE END FERRULE 2.5-12BU	N	MAIN ALTERNATOR -1 (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	1	21	-	-	
20	1	1886 (+)	LOC2 TB CONTROL PANEL-1 (CAB-1)	WIRE END FERRULE 2.5-12BU	N	MAIN ALTERNATOR -2 EXCITER RESISTOR-2 (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	1	21	-	-	-
	2	1888 (-)		WIRE END FERRULE 2.5-12BU	N	MAIN ALTERNATOR -2 (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	1	21	-	-	
21	1	307, 300	EQUIPMENT PANEL (LUP)	IC7/SK-7-2-166, 08/12	Y	CONTROL CUBICAL ON BOARD	IC7/SK-7-2-166, 08/12	2	8	-	-	-
	2	308, 300		IC7/SK-7-2-166, 08/12	Y	BATTERY BOX CONT BATTERY ON BOARD	IC7/SK-7-2-166, 08/12	2	7	-	-	-
	3	309		IC7/SK-7-2-166, 08/12	Y	300A CONT. SW CONTROL CUBICAL-1 ON BOARD	IC7/SK-7-2-166, 08/12	1	9	-	-	-
22	1	1742, 1743, 320	B-BOARD & E-BOARD CONTROL PANEL-1 (CAB-1)	WIRE END FERRULE 2.5-12BU	N	AIR DRIER JB (LUP)	WIRE END FERRULE 2.5-12BU	3	22	-	-	see schedule of supply (clause 2.5)
23	1	1	BATTERY CHARGER (STARTER BATTERY) (ON BOARD)	IC7/SK-7-2-52B, ITEM-20-M5	Y	(EARTH)	IC7/SK-7-2-52B, ITEM-20-M5	1	0.5	-	-	-
24	1	309, 300	EQUIPMENT PANEL (UNDER FRAME)	IC7/SK-7-2-166, 08/12	Y	CONT. BATT. BATTERY CHARGING SOCKET	IC7/SK-7-2-166, 08/12	2	15	-	-	-
	2	371, 300		IC7/SK-7-2-52B, ITEM-20-M5	Y	HL-3 (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	2	8	-	-	10mm x 5.5 mtr
	3	371, 300		IC7/SK-7-2-52B, ITEM-20-M5	Y	HL-2 (LUP)	IC7/SK-7-2-52B, ITEM-20-M5	2	14	-	-	10mm x 13.5 mtr
	4	371		IC7/SK-7-2-52B, ITEM-20-M5	Y	EQUIP. PANEL 10A FUSE	IC7/SK-7-2-52B, ITEM-20-M5	1	8	-	-	-
	5	307	EQUIPMENT PANEL (UNDER FRAME)	IC7/SK-7-2-52B, ITEM-14-M12	Y	EQUIP. PANEL 10A FUSE	IC7/SK-7-2-52B, ITEM-14-M12	1	0.5	-	-	-
	6	300	BATTERY CHARGING SOCKET (RCU)	IC7/SK-7-2-52B, ITEM-14-M12	Y	EQUIP. PANEL	IC7/SK-7-2-52B, ITEM-20-M5	1	0.5	-	-	-


 JE/LDO


 JE/LDO


 WM/Design


 SSE/NPS-2


 WM/PM


 JE/ECS


 SSE/ECS


 AWM/ECS

HARDWARE NUMBER	S.NO	CABLE NUMBER	FROM				TO				CABLE SIZE (SQ. MM)	NUMBER OF CABLE	CABLE LENGTH (In mtr)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS
			LOCATION	WUG TYPE	Grounding status (Y/N)	LOCATION	WUG TYPE	Grounding status (Y/N)								
25	1	1677 (+L, 1678) (-)	MAIN ALTERNATOR EXCITER RESISTOR-1 (LUT)	IC/5K-7-2-528, ITEM-20-M5	Y	MAIN ALTERNATOR-1 (LUT)	IC/5K-7-2-528, ITEM-20-M5	Y	40KW2.5	2	14	-	-	30mm X 15.5 mtr	-	
	2	1687 (+L, 1688) (-)	MAIN ALTERNATOR EXCITER RESISTOR-2 (LUT)	IC/5K-7-2-528, ITEM-20-M5	Y	MAIN ALTERNATOR-2 (LUT)	IC/5K-7-2-528, ITEM-20-M5	Y	40KW2.5	2	10	-	-	30mm X 15.5 mtr	-	
26	1	1741, 1743, 520	AIR DRIER JB	WIRE END FERRULE 1.5-8BK	Y	AIR DRIER	WIRE END FERRULE 1.5-8BK	Y	40KW2.5	3	21	-	-	-	-	
27	1	P1, P20A, P11, P23, 6	TRACTION MOTOR-1	-	-	MOTOR CONNECTION BOX-1	IC/5K-7-2-637, ITEM-1	N	40KW150	5	-	NW 29(DIA. 32mm METRIC THREAD) x 0.3 mtr	-	Only Lug required (20 Nos)	-	
	2	P3, P7, P12, P36, 6	TRACTION MOTOR-2	-	-	MOTOR CONNECTION BOX-2	IC/5K-7-2-637, ITEM-1	N		5	-		-			
	3	P2, P8A, P13, P17, 6	TRACTION MOTOR-3	-	-	MOTOR CONNECTION BOX-3	IC/5K-7-2-637, ITEM-1	N		5	-		-			
	4	P4, P8, P14, P38, 1	TRACTION MOTOR-4	-	-	MOTOR CONNECTION BOX-4	IC/5K-7-2-637, ITEM-1	N		5	-		-			
	5	E	EARTHING	IC/5K-7-2-166, DIA/50	Y	TMS1 EARTH AT MC BOX-1	IC/5K-7-2-604, ITEM3-120 DOUBLE HOLE	Y	40KW120	1	1	NW 29(DIA. 32mm METRIC THREAD) x 0.3 mtr	-	-	-	
	6	E		IC/5K-7-2-166, DIA/50	Y	TMS2 EARTH AT MC BOX-1	IC/5K-7-2-604, ITEM3-120 DOUBLE HOLE	Y		1	1		-	-	-	
	7	E		IC/5K-7-2-166, DIA/50	Y	TMS3 EARTH AT MC BOX-1	IC/5K-7-2-604, ITEM3-120 DOUBLE HOLE	Y		1	1		-	-	-	
	8	E		IC/5K-7-2-166, DIA/50	Y	TMS4 EARTH AT MC BOX-1	IC/5K-7-2-604, ITEM3-120 DOUBLE HOLE	Y		1	1		-	-	-	
28	1	E	EARTH LUG	IC/5K-7-2-166, DIA/50	Y	EQUIP. PANEL	IC/5K-7-2-166, DIA/50	Y	40KW25	1	0.5	-	-	-	-	
	2	E		IC/5K-7-2-166, DIA/50	Y	M. C BOX (1-4)	IC/5K-7-2-166, DIA/50	Y	40KW70	4	0.5	-	-	-	-	


JE/LDO


JE/LDO


WM/Design


SSE/MPS-2


WM/Ptg.


JE/ECS


SSE/ECS


AWM/ECS

SCOPE OF SUPPLY OF HARNESS CABLE FOR DETC													
HARNESS CHART FOR CAB-1 & 2 AND DESK-1 & 2 / DRG. NUMBER DETC/US-7-0-046													
HARNESS NUMBER	S.NO	CABLE NUMBER	FROM		TO		CABLE SIZE (SQ. MM)	NUMBER OF CABLES	CABLE LENGTH (In mtr)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS	
			LOCATION	LUG TYPE	Location	LUG TYPE							
CONTROL PANEL-1 TO DESK-1 HARNESS(CAB-1)													
1	1	1ST END - CON-18 2ND END - 58 (1,2,3,4,5,6,7,1731,1854,1855,1857,1814,1838,1858,1859,1860,1861,1862,1863,1864,1865,1866,1867,1868,1869,1870,1871,1872,1873,1874,1875,1876,1877,1878,1879,1880,1881,1882,1883,1884,1885,1886,1887,1888,1889,1890,1891,1892,1893,1894,1895,1896,1897,1898,1899,1900,1901,1902,1903,1904,1905,1906,1907,1908,1909,1910,1911,1912,1913,1914,1915,1916,1917,1918,1919,1920,1921,1922,1923,1924,1925,1926,1927,1928,1929,1930,1931,1932,1933,1934,1935,1936,1937,1938,1939,1940,1941,1942,1943,1944,1945,1946,1947,1948,1949,1950,1951,1952,1953,1954,1955,1956,1957,1958,1959,1960,1961,1962,1963,1964,1965,1966,1967,1968,1969,1970,1971,1972,1973,1974,1975,1976,1977,1978,1979,1980,1981,1982,1983,1984,1985,1986,1987,1988,1989,1990,1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022,2023,2024,2025,2026,2027,2028,2029,2030,2031,2032,2033,2034,2035,2036,2037,2038,2039,2040,2041,2042,2043,2044,2045,2046,2047,2048,2049,2050,2051,2052,2053,2054,2055,2056,2057,2058,2059,2060,2061,2062,2063,2064,2065,2066,2067,2068,2069,2070,2071,2072,2073,2074,2075,2076,2077,2078,2079,2080,2081,2082,2083,2084,2085,2086,2087,2088,2089,2090,2091,2092,2093,2094,2095,2096,2097,2098,2099,2100,2101,2102,2103,2104,2105,2106,2107,2108,2109,2110,2111,2112,2113,2114,2115,2116,2117,2118,2119,2120,2121,2122,2123,2124,2125,2126,2127,2128,2129,2130,2131,2132,2133,2134,2135,2136,2137,2138,2139,2140,2141,2142,2143,2144,2145,2146,2147,2148,2149,2150,2151,2152,2153,2154,2155,2156,2157,2158,2159,2160,2161,2162,2163,2164,2165,2166,2167,2168,2169,2170,2171,2172,2173,2174,2175,2176,2177,2178,2179,2180,2181,2182,2183,2184,2185,2186,2187,2188,2189,2190,2191,2192,2193,2194,2195,2196,2197,2198,2199,2200,2201,2202,2203,2204,2205,2206,2207,2208,2209,2210,2211,2212,2213,2214,2215,2216,2217,2218,2219,2220,2221,2222,2223,2224,2225,2226,2227,2228,2229,2230,2231,2232,2233,2234,2235,2236,2237,2238,2239,2240,2241,2242,2243,2244,2245,2246,2247,2248,2249,2250,2251,2252,2253,2254,2255,2256,2257,2258,2259,2260,2261,2262,2263,2264,2265,2266,2267,2268,2269,2270,2271,2272,2273,2274,2275,2276,2277,2278,2279,2280,2281,2282,2283,2284,2285,2286,2287,2288,2289,2290,2291,2292,2293,2294,2295,2296,2297,2298,2299,2300,2301,2302,2303,2304,2305,2306,2307,2308,2309,2310,2311,2312,2313,2314,2315,2316,2317,2318,2319,2320,2321,2322,2323,2324,2325,2326,2327,2328,2329,2330,2331,2332,2333,2334,2335,2336,2337,2338,2339,2340,2341,2342,2343,2344,2345,2346,2347,2348,2349,2350,2351,2352,2353,2354,2355,2356,2357,2358,2359,2360,2361,2362,2363,2364,2365,2366,2367,2368,2369,2370,2371,2372,2373,2374,2375,2376,2377,2378,2379,2380,2381,2382,2383,2384,2385,2386,2387,2388,2389,2390,2391,2392,2393,2394,2395,2396,2397,2398,2399,2400,2401,2402,2403,2404,2405,2406,2407,2408,2409,2410,2411,2412,2413,2414,2415,2416,2417,2418,2419,2420,2421,2422,2423,2424,2425,2426,2427,2428,2429,2430,2431,2432,2433,2434,2435,2436,2437,2438,2439,2440,2441,2442,2443,2444,2445,2446,2447,2448,2449,2450,2451,2452,2453,2454,2455,2456,2457,2458,2459,2460,2461,2462,2463,2464,2465,2466,2467,2468,2469,2470,2471,2472,2473,2474,2475,2476,2477,2478,2479,2480,2481,2482,2483,2484,2485,2486,2487,2488,2489,2490,2491,2492,2493,2494,2495,2496,2497,2498,2499,2500,2501,2502,2503,2504,2505,2506,2507,2508,2509,2510,2511,2512,2513,2514,2515,2516,2517,2518,2519,2520,2521,2522,2523,2524,2525,2526,2527,2528,2529,2530,2531,2532,2533,2534,2535,2536,2537,2538,2539,2540,2541,2542,2543,2544,2545,2546,2547,2548,2549,2550,2551,2552,2553,2554,2555,2556,2557,2558,2559,2560,2561,2562,2563,2564,2565,2566,2567,2568,2569,2570,2571,2572,2573,2574,2575,2576,2577,2578,2579,2580,2581,2582,2583,2584,2585,2586,2587,2588,2589,2590,2591,2592,2593,2594,2595,2596,2597,2598,2599,2600,2601,2602,2603,2604,2605,2606,2607,2608,2609,2610,2611,2612,2613,2614,2615,2616,2617,2618,2619,2620,2621,2622,2623,2624,2625,2626,2627,2628,2629,2630,2631,2632,2633,2634,2635,2636,2637,2638,2639,2640,2641,2642,2643,2644,2645,2646,2647,2648,2649,2650,2651,2652,2653,2654,2655,2656,2657,2658,2659,2660,2661,2662,2663,2664,2665,2666,2667,2668,2669,2670,2671,2672,2673,2674,2675,2676,2677,2678,2679,2680,2681,2682,2683,2684,2685,2686,2687,2688,2689,2690,2691,2692,2693,2694,2695,2696,2697,2698,2699,2700,2701,2702,2703,2704,2705,2706,2707,2708,2709,2710,2711,2712,2713,2714,2715,2716,2717,2718,2719,2720,2721,2722,2723,2724,2725,2726,2727,2728,2729,2730,2731,2732,2733,2734,2735,2736,2737,2738,2739,2740,2741,2742,2743,2744,2745,2746,2747,2748,2749,2750,2751,2752,2753,2754,2755,2756,2757,2758,2759,2760,2761,2762,2763,2764,2765,2766,2767,2768,2769,2770,2771,2772,2773,2774,2775,2776,2777,2778,2779,2780,2781,2782,2783,2784,2785,2786,2787,2788,2789,2790,2791,2792,2793,2794,2795,2796,2797,2798,2799,2800,2801,2802,2803,2804,2805,2806,2807,2808,2809,2810,2811,2812,2813,2814,2815,2816,2817,2818,2819,2820,2821,2822,2823,2824,2825,2826,2827,2828,2829,2830,2831,2832,2833,2834,2835,2836,2837,2838,2839,2840,2841,2842,2843,2844,2845,2846,2847,2848,2849,2850,2851,2852,2853,2854,2855,2856,2857,2858,2859,2860,2861,2862,2863,2864,2865,2866,2867,2868,2869,2870,2871,2872,2873,2874,2875,2876,2877,2878,2879,2880,2881,2882,2883,2884,2885,2886,2887,2888,2889,2890,2891,2892,2893,2894,2895,2896,2897,2898,2899,2900,2901,2902,2903,2904,2905,2906,2907,2908,2909,2910,2911,2912,2913,2914,2915,2916,2917,2918,2919,2920,2921,2922,2923,2924,2925,2926,2927,2928,2929,2930,2931,2932,2933,2934,2935,2936,2937,2938,2939,2940,2941,2942,2943,2944,2945,2946,2947,2948,2949,2950,2951,2952,2953,2954,2955,2956,2957,2958,2959,2960,2961,2962,2963,2964,2965,2966,2967,2968,2969,2970,2971,2972,2973,2974,2975,2976,2977,2978,2979,2980,2981,2982,2983,2984,2985,2986,2987,2988,2989,2990,2991,2992,2993,2994,2995,2996,2997,2998,2999,3000,3001,3002,3003,3004,3005,3006,3007,3008,3009,3010,3011,3012,3013,3014,3015,3016,3017,3018,3019,3020,3021,3022,3023,3024,3025,3026,3027,3028,3029,3030,3031,3032,3033,3034,3035,3036,3037,3038,3039,3040,3041,3042,3043,3044,3045,3046,3047,3048,3049,3050,3051,3052,3053,3054,3055,3056,3057,3058,3059,3060,3061,3062,3063,3064,3065,3066,3067,3068,3069,3070,3071,3072,3073,3074,3075,3076,3077,3078,3079,3080,3081,3082,3083,3084,3085,3086,3087,3088,3089,3090,3091,3092,3093,3094,3095,3096,3097,3098,3099,3100,3101,3102,3103,3104,3105,3106,3107,3108,3109,3110,3111,3112,3113,3114,3115,3116,3117,3118,3119,3120,3121,3122,3123,3124,3125,3126,3127,3128,3129,3130,3131,3132,3133,3134,3135,3136,3137,3138,3139,3140,3141,3142,3143,3144,3145,3146,3147,3148,3149,3150,3151,3152,3153,3154,3155,3156,3157,3158,3159,3160,3161,3162,3163,3164,3165,3166,3167,3168,3169,3170,3171,3172,3173,3174,3175,3176,3177,3178,3179,3180,3181,3182,3183,3184,3185,3186,3187,3188,3189,3190,3191,3192,3193,3194,3195,3196,3197,3198,3199,3200,3201,3202,3203,3204,3205,3206,3207,3208,3209,3210,3211,3212,3213,3214,3215,3216,3217,3218,3219,3220,3221,3222,3223,3224,3225,3226,3227,3228,3229,3230,3231,3232,3233,3234,3235,3236,3237,3238,3239,3240,3241,3242,3243,3244,3245,3246,3247,3248,3249,3250,3251,3252,3253,3254,3255,3256,3257,3258,3259,3260,3261,3262,3263,3264,3265,3266,3267,3268,3269,3270,3271,3272,3273,3274,3275,3276,3277,3278,3279,3280,3281,3282,3283,3284,3285,3286,3287,3288,3289,3290,3291,3292,3293,3294,3295,3296,3297,3298,3299,3300,3301,3302,3303,3304,3305,3306,3307,3308,3309,3310,3311,3312,3313,3314,3315,3316,3317,3318,3319,3320,3321,3322,3323,3324,3325,3326,3327,3328,3329,3330,3331,3332,3333,3334,3335,3336,3337,3338,3339,3340,3341,3342,3343,3344,3345,3346,3347,3348,3349,3350,3351,3352,3353,3354,3355,3356,3357,3358,3359,3360,3361,3362,3363,3364,3365,3366,3367,3368,3369,3370,3371,3372,3373,3374,3375,3376,3377,3378,3379,3380,3381,3382,3383,3384,3385,3386,3387,3388,3389,3390,3391,3392,3393,3394,3395,3396,3397,3398,3399,3400,3401,3402,3403,3404,3405,3406,3407,3408,3409,3410,3411,3412,3413,3414,3415,3416,3417,3418,3419,3420,3421,3422,3423,3424,3425,3426,3427,3428,3429,3430,3431,3432,3433,3434,3435,3436,3437,3438,3439,3440,3441,3442,3443,3444,3445,3446,3447,3448,3449,3450,3451,3452,3453,3454,3455,3456,3457,3458,3459,3460,3461,3462,3463,3464,3465,3466,3467,3468,3469,3470,3471,3472,3473,3474,3475,3476,3477,3478,3479,3480,3481,3482,3483,3484,3485,3486,3487,3488,3489,3490,3491,3492,3493,3494,3495,3496,3497,3498,3499,3500,3501,3502,3503,3504,3505,3506,3507,3508,3509,3510,3511,3512,3513,3514,3515,3516,3517,3518,3519,3520,3521,3522,3523,3524,3525,3526,3527,3528,3529,3530,3531,3532,3533,3534,3535,3536,3537,3538,3539,3540,3541,3542,3543,3544,3545,3546,3547,3548,3549,3550,3551,3552,3553,3554,3555,3556,3557,3558,3559,3560,3561,3562,3563,3564,3565,3566,3567,3568,3569,3570,3571,3572,3573,3574,3575,3576,3577,3578,3579,3580,3581,3582,3583,3584,3585,3586,3587,3588,3589,3590,3591,3592,3593,3594,3595,3596,3597,3598,3599,3600,3601,3602,3603,3604,3605,3606,3607,3608,3609,3610,3611,3612,3613,3614,3615,3616,3617,3618,3619,3620,3621,3622,3623,3624,3625,3626,3627,3628,3629,3630,3631,3632,3633,3634,3635,3636,3637,3638,3639,3640,3641,3642,3643,3644,3645,3646,3647,3648,3649,3650,3651,3652,3653,3654,3655,3656,3657,3658,3659,3660,3661,3662,3663,3664,3665,3666,3667,3668,3669,3670,3671,3672,3673,3674,3675,3676,3677,3678,3679,3680,3681,3682,3683,3684,3685,3686,3687,3688,3689,3690,3691,3692,3693,3694,3695,3696,3697,3698,3699,3700,3701,3702,3703,3704,3705,3706,3707,3708,3709,3710,3711,3712,3713,3714,3715,3716,3717,3718,3719,3720,3721,3722,3723,3724,3725,3726,3727,3728,3729,3730,3731,3732,3733,3734,3735,3736,3737,3738,3739,3740,3741,3742,3743,3744,3745,3746,3747,3748,3749,3750,3751,3752,3753,3754,3755,3756,3757,3758,3759,3760,3761,3762,3763,3764,3765,3766,3767,3768,3769,3770,3771,3772,3773,3774,3775,3776,3777,3778,3779,3780,3781,3782,3783,3784,3785,3786,3787,3788,3789,3790,3791,3792,3793,3794,3795,3796,3797,3798,3799,3800,3801,3802,3803,3804,3805,3806,3807,3808,3809,3810,3811,3812,3813,3814,3815,3816,3817,3818,3819,3820,3821,3822,3823,3824,3825,3826,3827,3828,3829,3830,3831,3832,3833,3834,3835,3836,3837,3838,3839,3840,3841,3842,3843,3844,3845,3846,3847,3848,3849,3850,3851,3852,3853,3854,3855,3856,3857,3858,3859,3860,3861,3862,3863,3864,3865,3866,3867,3868,3869,3870,3871,3872,3873,3874,3875,3876,3877,3878,3879,3880,3881,3882,3883,3884,3885,3886,3887,3888,3889,3890,3891,3892,3893,3894,3895,3896,3897,3898,3899,3900,3901,3902,3903,3904,3905,3906,3907,3908,3909,3910,3911,3912,3913,3914,3915,3916,3917,3918,3919,3920,3921,3922,3923,3924,3925,3926,3927,3928,3929,3930,3931,3932,3933,3934,3935,3936,3937,3938,3939,3940,3941,3942,3943,3944,3945,3946,3947,3948,3949,3950,3951,3952,3953,3954,3955,3956,3957,3958,3959,3960,3961,3962,3963,3964,3965,3966,3967,3968,3969,3970,3971,3972,3973,3974,3975,3976,3977,3978,3979,3980,3981,3982,3983,3984,3985,3986,3987,3988,3989,3990,3991,3992,3993,3994,3995,3996,3997,3998,3999,4000,4001,4002,4003,4004,4005,4006,4007,4008,4009,4010,4011,4012,4013,4014,4015,4016,4017,4018,4019,4020,4021,4022,4023,4024,4025,4026,4027,4028,4029,4030,4031,4032,4033,4034,4035,4036,4037,4038,4039,4040,4041,4042,4043,4044,4045,4046,4047,4048,4049,4050,4051,4052,4053,4054,4055,4056,4057,4058,4059,4060,4061,4062,4063,4064,4065,4066,4067,4068,4069,4070,4071,4072,4073,4074,4075,4076,4077,4078,4079,4080,4081,4082,4083,4084,4085,4086,4087,4088,4089,4090,4091,4092,4093,4094,4095,4096,4097,4098,4099,4100,4101,4102,4103,4104,4105,4106,4107,4108,4109,4110,4111,4112,4113,4114,4115,4116,4117,4118,4119,4120,4121,4122,4123,4124,4125,4126,4127,4128,4129,4130,4131,4132,4133,4134,4135,4136,4137,4138,4139,4140,4141,4142,4143,4144,4145,4146,4147,4148,4149,4150,4151,4152,4153,4154,4155,4156,4157,4158,4159,4160,4161,4162,4163,4164,4165,4166,4167,4168,4169,4170,4171,4172,4173,4174,4175,4176,4177,4178,4179,4180,4181,4182,4183,4184,4185,4186,4187,4188,4189,4190,4191,4192,4193,4194,4195,4196,4197,4198,4199,4200,4201,4202,4203,4204,4205,4206,4207,4208,4209,4210,4211,4212,4213,4214,4215,4216,4217,4218,4219,4220,4221,4222,4223,4224,4225,4226,4227,4228,4229,4230,4231,4232,4233,4234,4235,4236,4237,4238,4239,4240,4241,4242,4243,4244,4245,4246,4247,4248,4249,4250,4251,4252,4253,4254,4255,4256,4257,4258,4259,4260,4261,4262											


JE/LDO


JE/LDO


WM/Design


SSE/MPS-2


WM/Plg.


JE/ECS


SSE/ECS


AWM/ECS

HARNESS NUMBER		SNO	CABLE NUMBER	LOCATION	WIRE TYPE	Crossing status (Y/N)	LOCATION	WIRE TYPE	Crossing status (Y/N)	CABLE SIZE (SQ.MM)	NUMBER OF CABLES	CABLE LENGTH (m/m)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS
CONTROL PANEL-B TO DESK-2 HARNESS (CAB-2)															
8	1		1ST END - 30A 2ND END - 198 (311,313,311,322,322,1741,1743,1732,1735,1601,201 5,1723,1724,1736,1737,2056,1856)	CONTROL TB CONTROL PANEL-2	-	-	B BOARD DRIVER DESK-2	-	-	40KW2.5 X 13 CORE	3	3.3	-	40mm X 2mtr	-
	2		1ST END - 30B 2ND END - 23 (1633,1610,1801,SP,1721,1806,1602,SP,SP,SP,SP,19 13,105,104,105,SP,251,251)		-	-	CONTROL T.B DRIVER DESK-2	-	-	40KW2.5 X 13 CORE	3	2.3	-	40mm X 2mtr	-
9	1		1ST END - 31 2ND END - 24 (342,349,313,327,375,345,346,201,336,338,SP,SP,SP, P,SP,SP,SP,301,251)	AUX TB CONTROL PANEL-2	-	-	AUX TB CONTROL DESK-2	-	-	40KW2.5 X 13 CORE	3	2.3	-	40mm X 2mtr	-
	2		1ST END - 32 2ND END - 228 (336,330,320,320,F-1, SP,290,296,SP,SP,386,SP,386,SP,HL- 370,235,SP,360,CS)	AUX TB CONTROL PANEL-2	-	-	E-BOARD DRIVER DESK-2	-	-	40KW2.5 X 13 CORE	3	2.4	-	40mm X 2mtr	-
10	1		376,390	STUD T.B CONTROL PANEL-2	ICF/SK-7-3- 16A,CA/2	N	CAB HEATER UNIT-3 CONTROL UNIT DESK-2	ICF/SK-7-3- 16A,CA/2	Y	40KW6	3	5	-	10mm X 4mtr	-
WIRING IN CONTROL PANEL-2															
11	1		346,360,HL-345	AUX TB & AUX T.B CONTROL PANEL-2	WIRE END FERRULE PIN TYPE CP27	Y	HEAD LIGHT DC/DC CONVERTER	ICF/SK-7-3- S28,ITEM-24-MM	Y	40KW2.5	4	4	-	-	-
	2		360,356,351,370	CONTROL CUBICAL-2	WIRE END FERRULE PIN TYPE CP27	Y	FLASHER UNIT	ICF/SK-7-3- S28,ITEM-23-MM	Y	40KW2.5	4	4	-	-	-
DESK-1 HARNESS															
12	1		172,320	B & E BOARD DESK-1	WIRE END FERRULE 2.5-12BU	Y	PARKING BRAKE APPLY MAG. VALVE	ICF/SK-7-3- S28,ITEM-20-MM	Y	40KW2.5	2	4.5	-	10mm X 4mtr	-
	2		174,320		WIRE END FERRULE 2.5-12BU	Y	PARKING BRAKE RELEASE MAG. VALVE	ICF/SK-7-3- S28,ITEM-20-MM	Y		2	4.5	-	10mm X 4mtr	-
	3		175,320		WIRE END FERRULE 2.5-12BU	Y	DEAD MAN MAG VALVE	ICF/SK-7-3- S28,ITEM-30-MM	Y		2	4.5	-	10mm X 4mtr	-
	4		103,394	CONTROL TB DESK-1	WIRE END FERRULE 2.5-12BU	Y	SP GOV	ICF/SK-7-3- S28,ITEM-23-MM	Y		2	4.5	-	10mm X 4mtr	-
	5		104,305,1802,1823	CONTROL TB A & C BOARD DESK-1	WIRE END FERRULE 2.5-12BU	Y	PARKING BRAKE GOV	ICF/SK-7-3- S28,ITEM-23-MM	Y		4	4.5	-	10mm X 4mtr	-
	6		342,344	AUX TB CONT. TB DESK-1	WIRE END FERRULE 2.5-12BU	Y	FOOT OPERATED HORN PUSH BUTTON	ICF/SK-7-3- S28,ITEM-23-MM	Y		2	5.5	-	10mm X 5mtr	-
	7		344,360	CONT. TB E-BOARD DESK-1	WIRE END FERRULE 2.5-12BU	Y	HORN MAGNET VALVE	ICF/SK-7-3- S28,ITEM-30-MM	N		2	4.5	-	10mm X 4mtr	-
13	1		338,360, POWER CONNECTOR	AUX TB AND E BOARD DESK-1	-	-	25KV AC HIGH VOLTAGE CONTROLLER CUM POWER SUPPLY UNIT (DESK-1)	-	-	2 CORED CABLE	2	-	-	10mm X 2.4mtr	Only cable jacket required
	2		HV/D	25KV AC HIGH VOLTAGE CONTROLLER CUM POWER SUPPLY UNIT (DESK-1)	-	-	25 KV AC ON DISPLAY UNIT (DESK-1)	-	-	5 CORED 33CR	1	-	-	-	
	3		HV	HV ANTENNA ABOVE ROOF (CAB-1)	-	-	25KV AC HIGH VOLTAGE CONTROLLER CUM POWER SUPPLY UNIT (DESK-1)	-	-	2 CORED 33CR	1	-	-	-	
14	2		342,360	SPEEDOMETER (POWER SUPPLY CABLE)	WIRE END FERRULE 1.5-BBU	Y	AUX TB AND E BOARD DESK-1	-	-	40KW1.5	1	5.5	-	-	-
15	1		6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34	CAB HEATER UNIT-1 CONTROL UNIT DESK-1	-	-	INDICATION PANEL CAB HEATER UNIT-1	-	-	22	-	-	-	-	Only cable jacket required
	2		36,27,18	-	-	-	TWAMP SENSOR OUTSIDE DRIVERS CAB	-	-	3	-	-	-	20mm X 2mtr	

[Signature]
JE/LDO


JE/LDO

WM/Design


SSE/MPS-2

WM/P/12

Lokeshy
18/03

SEE PAGE


A. A. A. A. A.

HARNESS NUMBER		FROM		TO		CABLE SIZE (SQ. MM)		NUMBER OF CABLES		CABLE LENGTH (In mtr)		FLEXIBLE CONDUIT USAGE		CABLE JACKET USAGE		REMARKS											
LNO		CABLE NUMBER		LOCATION		WIRE TYPE		Crimping status (Y/N)		LOCATION		WIRE TYPE		Crimping status (Y/N)		CABLE SIZE (SQ. MM)		NUMBER OF CABLES		CABLE LENGTH (In mtr)		FLEXIBLE CONDUIT USAGE		CABLE JACKET USAGE		REMARKS	
DESK-1 PERIPHERAL LIGHTING																											
16	1	HL300	HEAD LIGHT	IC7/SK-7-3 S28, ITEM-24-MM	Y	AUXTB-1 (DESK)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	1	7.5	-	10mm X 6mtr	-													
	2	HL90		IC7/SK-7-3 S28, ITEM-24-MM	Y	AUXTB-1 (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	7.5	-	10mm X 6mtr	-													
	3	HL-		IC7/SK-7-3 S28, ITEM-24-MM	Y	F-BOARD (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	7.5	-	10mm X 6mtr	-													
	4	356	FRONT FLASHER LIGHT	IC7/SK-7-3 S28, ITEM-20-MS	Y	AUXTB-1 (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	5.5	-	10mm X 5mtr	-													
	5	370		IC7/SK-7-3 S28, ITEM-20-MS	Y	F-BOARD (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	5.5	-	10mm X 5mtr	-													
	6	252, 290-(VE)	FOG LIGHT	IC7/SK-7-3 S28, ITEM-20-MS	Y	CONTROL T.B DRIVER DESK-1 & E-BOARD DRIVER DESK-2	WIRE END FERRULE 2.5-12BU	Y		2	3.5	-	10mm X 3mtr	-													
	7	254, 290-(VE)	SEARCH LIGHT	IC7/SK-7-3 S28, ITEM-20-MS	Y		WIRE END FERRULE 2.5-12BU	Y		2	5.5	-	10mm X 5mtr	-													
	8	356, 360-(VE)	MARKER LIGHT(L)	IC7/SK-7-3 S28, ITEM-23-MM	Y	AUX T.B DRIVER DESK-2 & E-BOARD DRIVER DESK-2	WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm X 4mtr	-													
	9	358, 360-(VE)	MARKER LIGHT(R)	IC7/SK-7-3 S28, ITEM-23-MM	Y		WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm X 4mtr	-													
	10	357, 360-(VE)	TAIL LIGHT(L)	IC7/SK-7-3 S28, ITEM-20-MS	Y		WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm X 4mtr	-													
	11	357, 360-(VE)	TAIL LIGHT(R)	IC7/SK-7-3 S28, ITEM-20-MS	Y		WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm X 4mtr	-													
17	1	L2	CAR HEATER UNIT-1-CONTROL UNIT DESK-1	WIRE END FERRULE 2.5-12BU	Y	HEATER CAR HEATER UNIT-1 (ABOVE CONT. PANEL-1)	WIRE END FERRULE 2.5-12BU	Y	40KW4	2	12	-	20mm X 10mtr	-													
	2	S4		WIRE END FERRULE 2.5-12BU	Y	BLOWER CAR HEATER UNIT-1 (ABOVE CONT. PANEL-1)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	2	12	-	10mm X 10mtr	-													
	3	S,6,SP1,SP2		WIRE END FERRULE 2.5-12BU	Y	THERMOSTAT CAR HEATER UNIT-1 (ABOVE CONT. PANEL-1)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	4	12	-	20mm X 10mtr	-													
DESK-18 HARNESS																											
18	1	1741, 1743	COMPRESSOR GOVERNOR	IC7/SK-7-3 S28/ITEM-23-MM	Y	B-BOARD (DESK-2)	WIRE AND FERRULE PIN TYPE -CP27	Y	40KW2.5	2	4.5	-	10mm X 4mtr	-													
		1744		IC7/SK-7-3 S28/ITEM-23-MM	Y	D-BOARD (DESK-2)	WIRE AND FERRULE PIN TYPE -CP27	Y	40KW2.5	1	4.5	-	10mm X 4mtr	-													
	2	342, 344	AUX TB CONT. T.B & DESK-2	WIRE AND FERRULE PIN TYPE -CP27	Y	FOOT OPERATION HORN PUSH BUTTON	IC7/SK-7-3 S28/ITEM-23-MM	Y	40KW2.5	2	5.5	-	10mm X 4mtr	-													
	3	344, 360	CONT. T.B & E-BOARD DESK-2	WIRE END FERRULE PIN TYPE -CP27	Y	HORN MAGNET VALVE	MS	Y	40KW2.5	2	4.5	-	10mm X 4mtr	-													
19	1	318,360 POWER CONNECTOR	AUX TB & E-BOARD DESK-2	WIRE END FERRULE 1.5-886	N	25 KV AC HIGH VOLTAGE CONTROLLER CUM POWER SUPPLY UNIT (DESK-2)	WIRE END FERRULE 1.5-886	N	2 CORE CABLE	1	-	-	-	Only lug required													
	2	HVD	25 KV AC HIGH VOLTAGE CONTROLLER CUM POWER SUPPLY UNIT (DESK-2)	-	-	25 KV AC ON DISPLAY UNIT DESK-2	-	-	5 CORE X 1.5 SCR	1	-	-	-	Not required/Deleted													
	3	HV	H.V ANTENNA ABOVE ROOF(CAB-2)	-	-	25 KV AC HIGH VOLTAGE CONTROLLER CUM POWER SUPPLY UNIT (DESK-2)	-	-	2 CORE X 1.5 SCR	1	-	-	-														


JE/LDO


JE/LDO


WM/Design


SSE/MPS-2


WM/Plg.


JE/ECS


SSE/ECS


AWM/ECS

HARNES NUMBER		FROM													TO												
S.NO		CABLE NUMBER	LOCATION	WIRE TYPE	Circling status (Y/N)	LOCATION	WIRE TYPE	Circling status (Y/N)	CABLE SIZE (sq. mm)	NUMBER OF CABLES	CABLE LENGTH (in. mtr)	FLEXIBLE CONDUIT USAGE	CABLE JACKET USAGE	REMARKS													
20	1	342, 380	SPEEDO METER (POWER SUPPLY CABLE)	WIRE END FERRULE 1.5-8BK	Y	AUX TLE BOARD DESK-2	WIRE END FERRULE 1.5-8BK	Y	40KW1.5	2	5.5	-	-	-													
	2	1795, 510	B-BOARD & E-BOARD DESK-2	WIRE AND FERRULE PIN TYPE -C727	Y	DESK MAIN MAG VALVE	M5	N	40KW2.5	2	4.5	-	-	-													
21	1	8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25, P1, SP2, SP3, SP4	CAB HEATER UNIT-2 CONTROL UNIT DESK-2	-	-	INDICATION PANEL CAB HEATER UNIT-2	WIRE END FERRULE	N	40KW8	22	-	-	-	Only lug and cable jacket required													
	2	26,27,28	-	-	-	TEMP. SENSOR OUTSIDE DRIVERS CAB	WIRE END FERRULE	N	40KW6	3	-	-	20mm x 3mtr														
DESK-2 PERIPHERAL LIGHTING																											
22	1	HL100	HEAD LIGHT	ICP/SK-7-3-528, ITEM-24-M6	Y	AUXTB-2 (DESK)	WIRE END FERRULE 2.5-12BU	Y	40KW2.5	1	7.5	-	10mm x 6mtr	-													
	2	HL30		ICP/SK-7-3-528, ITEM-24-M6	Y	AUXTB-2 (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	7.5	-	10mm x 6mtr	-													
	3	HL-		ICP/SK-7-3-528, ITEM-24-M6	Y	E-BOARD (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	7.5	-	10mm x 6mtr	-													
	4	356	FRONT FLASHER LIGHT	ICP/SK-7-3-528, ITEM-20-M5	Y	CONF TB-3 (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	5.5	-	10mm x 5mtr	-													
	5	370		ICP/SK-7-3-528, ITEM-20-M5	Y	E-BOARD (DESK)	WIRE END FERRULE 2.5-12BU	Y		1	5.5	-	10mm x 5mtr	-													
	6	252, 290 (VE)	FOG LIGHT	ICP/SK-7-3-528, ITEM-20-M5	Y	CONTROL T.B DRIVER DESK-2 & E-BOARD DRIVER DESK-2	WIRE END FERRULE 2.5-12BU	Y		2	3.5	-	10mm x 3mtr	-													
	7	254, 290 (VE)	SEARCH LIGHT	ICP/SK-7-3-528, ITEM-20-M5	Y		WIRE END FERRULE 2.5-12BU	Y		2	5.5	-	10mm x 5mtr	-													
	8	358, 360 (VE)	MANNER LIGHT(S)	ICP/SK-7-3-528, ITEM-23-M4	Y	AUX T.B DRIVER DESK-2 & E-BOARD DRIVER DESK-2	WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm x 4mtr	-													
	9	358, 360 (VE)	MANNER LIGHT(S)	ICP/SK-7-3-528, ITEM-23-M4	Y		WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm x 4mtr	-													
	10	357, 360 (VE)	TAIL LIGHT(S)	ICP/SK-7-3-528, ITEM-20-M5	Y		WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm x 4mtr	-													
	11	357, 360 (VE)	TAIL LIGHT(S)	ICP/SK-7-3-528, ITEM-20-M5	Y		WIRE END FERRULE 2.5-12BU	Y		2	4.5	-	10mm x 4mtr	-													
23	1	1,2	CAB HEATER UNIT-2 CONTROL UNIT DESK-2	WIRE END FERRULE 2.5-12BU	N	HEATER CAB HEATER UNIT-2 (ABOVE CONT. PANEL-2)	WIRE END FERRULE 2.5-12BU	N	40KW4	2	-	-	20mm x 10mtr	Only lug and cable jacket required													
	2	3,4		WIRE END FERRULE 2.5-12BU	N	BLOWER CAB HEATER UNIT-2 (ABOVE CONT. PANEL-2)	WIRE END FERRULE 2.5-12BU	N	40KW2.5	2	-	-	10mm x 10mtr														
	3	5,6,SP1,SP2		WIRE END FERRULE 2.5-12BU	N	THERMOSTAT CAB HEATER UNIT-2 (ABOVE CONT. PANEL-2)	WIRE END FERRULE 2.5-12BU	N	40KW2.5	4	-	-	20mm x 10mtr														
EARTHING																											
24	1	E	EARTH LUG	ICP/SK-7-3-166,D12/50	Y	-	ICP/SK-7-3-166,D12/50	Y	40KW70	12	0.35	-	-	-													
	2	E		ICP/SK-7-3-166,D12/50	Y	-	ICP/SK-7-3-166,D12/50	Y		8	0.55	-	-	-													
	3	E		ICP/SK-7-3-166,D12/50	Y	-	ICP/SK-7-3-166,D12/50	Y		6	0.85	-	-	-													
	4	E		-	-	-	-	-		1	0.9	-	-	-													
	5	E		-	-	-	-	-		1	0.5	-	-	-													
	6	E		-	-	-	-	-		1	0.5	-	-	-													
	7	E		-	-	-	-	-		1	0.9	-	-	-													


JE/LDO


JE/LDO


WM/Design


SSE/MPS-2




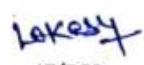





WM/Plg


JE/ECS




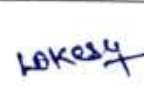





SSE/ECS


AWM/ECS




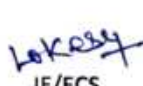




SN	DESCRIPTION	UNIT	Qty Required in loose	Remarks
1	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166, TYPE C4/32	Nos.	9	-
2	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-528/ITEM-24	Nos.	4	-
3	Solderless Crimping Socket to Drg. No.ICF/SK-7-2-166 BEND 5 DEG Type-D9/38	Nos.	5	-
4	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166 TYPE D 8/2.	Nos.	5	-
5	CRIMPING SOCKET TO DRG.NO.ICF/SK-7-2-166, TYPE D8/32	Nos.	14	-
6	SOLDERLESS CRIMPING SOCKET BEND 5 DEG TYPE D7/32 TO DRG. NO.ICF/SK-7-2-166	Nos.	3	-
7	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166 TYPE-D7/38	Nos.	14	-
8	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166, ALT-W TYPE C4/0.	Nos.	3	-
9	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166, TYPE D8/38	Nos.	1	-
10	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166, TYPE D13/50	Nos.	14	-
11	CRIMP SOCKET TO DRG. NO. ICF/SK-7-2-528 ALT.Z ITEM 20. MAKE : ASCON	Nos.	28	-
12	CRIMPING SOCKET TO DRG.NO.ICF/SK3-7-2-037, ITEM-1	Nos.	22	-
13	CRIMPING SOCKET DRG. NO. ICF/SK-7-2-166 TYPE C4/2, BEND-5 DEG. ALT 'W'. MAKE : ASCON	Nos.	10	-
14	CRIMPING SOCKET TO DRG. NO.ICF/SK-7-2-166, TYPE D8/50	Nos.	2	-
15	SOLDER LESS CRIMPING SOCKET TO DRG.NO.ICF/SK 7-2-604, ITEM 3	Nos.	2	-
16	SOLDERLESS CRIMPING TERMINAL DRG.NO.ICF/SK-7-2-166 ,TYPE-C 6/32, BEND-5 DEG.	Nos.	5	-
17	CRIMPING SOCKET TO DRG.NO.ICF/SK-7-2-528 , ITEM 14	Nos.	2	-
18	Solderless Crimping Socket to Drg. No.ICF/SK-7-2-166, Type-D12/50, BEND 5 Deg.	Nos.	6	-
19	SOLDERLESS CRIMPING SOCKET BEND 5, TYPE D14/50 TO DRG. NO.ICF/SK-7-2-166.	Nos.	40	-

 JE/LDO	 JE/LDO	 SSE/MPS-2	 JE/ECS	 SSE/ECS
 WM/Design	 WM/Plg.	 AWM/ECS		

SN	DESCRIPTION	UNIT	Qty Required In loose	Remarks
20	Solderless Crimping Socket to Drg. No.ICF/SK-7-2-166, BEND 5 DEG Type D12/38	Nos.	10	-
21	Solderless Crimping Socket to Drg. No.ICF/SK-7-2-166, BEND 5 DEG. Type-D7/0.	Nos.	3	-
22	SOLDERLESS CRIMPING TERMINALS D14/38 BEND 5 DEG TO DRG. NO.ICF/SK-7-2-166.	Nos.	5	-
23	FLEXIBLE CONDUIT NW23 (DIA 25 MM METRIC THREADS)	Mtrs	84	To be supplied in rolls
24	UNF FLEXIBLE CONDUIT NW29 DIA 32 MM	Mtrs	46	
25	FLEXIBLE CONDUIT NW17 DIA 20 MM	Mtrs	59	
26	UNF FLEXIBLE CONDUIT NW 48 DIA 50 MM	Mtrs	3	
27	U WIRE END INSULATED FERRULE AI2.5-12BU	Nos.	86	-
28	U WIRE END INSULATED FERRULE AI1.5-8BK	Nos.	27	-
29	WIRE END FERRULE PIN TYPE CP27	Nos.	101	-
30	CABLE JACKET 10 mm	Mtrs	90	To be supplied in rolls
31	CABLE JACKET 20 mm	Mtrs	41	
32	CABLE JACKET 40 mm	Mtrs	46.3	
33	CRIMPING SOCKET DRG.NO.ICF/SK-7-2-528/ ITEM-23	Nos.	28	-
34	UNF STRAIGHT CONNECTOR DIA 40 MM	Nos.	11	-
35	UNF STRAIGHT CONNECTOR DIA 25 MM	Nos.	22	-
36	UNF END FITTING STRAIGHT NW 29 DIA 32 MM	Nos.	11	-
37	UNF FLEXIBLE CONDUIT NW 36 DIA 40 MM	Mtrs	22	-
38	LEAD COATED DOUBLE HOLE SOCKET	Nos.	3	-
39	SHRINKDOWN SLEEVE 6.4 X 0.28 PE5	Mtrs	4.5	-
40	SHRINKDOWN SLEEVE 12.7 X 0.28 PE5	Mtrs	3	-
41	ADHESIVE SHRINKDOWN SLEEVE 24/6	Mtrs	1.5	-
42	SHRINKDOWN SLEEVE 25.4 X 0.38 PE5	Mtrs	4	-
43	Hex Head Screw M8 x 20	Nos.	18	
44	Hex Head Screw M12 x 25	Nos.	73	
45	Hex Head Screw M10 x 25	Nos.	11	
46	Plain Washer M8	Nos.	18	
47	Plain Washer M10	Nos.	11	
48	Plain Washer M12	Nos.	73	
49	Spring Washer B8	Nos.	18	
50	Spring Washer B10	Nos.	11	
51	Spring Washer B12	Nos.	73	
52	U-set of Nylon Cable tie 400x7.87 mm	Set	8	
53	U-set of Nylon Cable tie 300x7.87 mm	Set	8	

 JE/LDO	 JE/LDO	 SSE/MPS-2	 JE/ECS	 SSE/ECS
 WM/Design		 WM/Plg.		 AWM/ECS

SN	DESCRIPTION	UNIT	Qty Required in loose	Remarks
54	U-set of Nylon Cable tie 200x4.88 mm	Set	6	
55	Earthing lug M8	Nos.	22	
56	Earthing lug M10	Nos.	5	
57	Earthing lug M12	Nos.	29	

 JE/LDO	 JE/LDO	 SSE/MPS-2	 JE/ECS	 SSE/ECS
 WM/Design	 WM/Plg.	 AWM/ECS		

ANNEXURE 'B'

Page 1 of 2

(Technical and testing requirement of Annexure 'A')
For Supply of harnesses cable for DETC/US

S. NO.	DESCRIPTION	Technical/Testing requirements (conforming to Drgs./spec.)
1	E-BEAM CABLES	RDSO spec. ELRS/SPEC/ ELC/0019 rev -4'
2	CRIMPING SOCKET C 4/2 ICF/SK 7-2-166,M-4	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
3	CRIMPING SOCKET ICF/SK 7-2-528/ITEM 20, M-4	Drg. 077-7-2-528 & SPEC. EDTS 201, Rev 'A'
4	CRIMPING SOCKET D8/50 ICF/SK 7-2-166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
5	CRIMPING SOCKET D13/50 ICF/SK 7-2-166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
6	2 CORE SCREENED CABLE, 2.5 SQ MM	CLW/ES/3/0459,Alt 'C'
7	2 PAIR 0.5 SQMM INDOOR TELEPHONE CABLE	G/WIR-06/02
8	U SET OF NYLON CABLE TIE 400X7.87 MM	CLW-ES-C-54, ALT-B
9	U SET OF NYLON CABLE TIE 300X7.87 MM	CLW-ES-C-54, ALT-B
10	U SET OF NYLON CABLE TIE 200X4.88 MM	CLW-ES-C-54, ALT-B
11	UNF CRIMPING SOCKET ITEM-23, M-5	Drg. 077-7-2-528 & SPEC. EDTS 201, Rev 'A'
12	UNF STRAIGHT CONNECTOR DIA 40 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
13	UNF STRAIGHT CONNECTOR NW23 DIA 25 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
14	UNF FLEXIBLE CONDUIT NW23 DIA 25 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
15	UNF FLEXIBLE CONDUIT NW48 DIA 50 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
16	UNF END FITTING STRAIGHT NW29 DIA 32 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
17	UNF FLEXIBLE CONDUIT NW29 DIA 32 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
18	FLEXIBLE CONDUIT NW17 DIA 20 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
19	CRIMPING SOCKET ICF/SK 72604/03,120 DOUBLE HOLE	Drg. 077-7-2-604 & SPEC. EDTS 200, Rev. NIL
20	CRIMPING SOCKET ICF/SK/72528 14, M-12	Drg. 077-7-2-528 & SPEC. EDTS 201, Rev 'A'
21	S/L CRIMPING SOCKET C6/32 ICF/SK 7-2-166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
22	U CRIMPING SOCKET ICF/SK 7-2-528/ITEM 24,M-6	Drg. 077-7-2-528 & SPEC. EDTS 201,Rev 'A'
23	U CRIMPING SOCKET C4/0 ICF/SK 72166 (M-5)	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
24	U CRIMPING SOCKET C4/32 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
25	U CRIMPING SOCKET D7/38 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
26	INF CRIMPING SOCKET TYPE-D8/2	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
27	UNF CRIMPING SOCKET D8/32 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
28	UNF CRIMPING SOCKET TYPE-D8/38	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
29	UNF CRIMPING SOCKET TO ICF/SK/72037/ITM1,150 DOUBLE HOLE	Drg. 329-7-2-037 & RCF SPEC. EDTS 200, Rev. NIL
30	S/L CRIMPING SOCKET D 7/32 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
31	CRIMPING SOCKET D14/50 BEND 5	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
32	S/L CRIMPING TERMNLS 20/D14/38/50	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
33	S/L CRIMPING SOCKET D 7/0 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
34	S/L CRIMPING SOCKET D 9/38 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
35	CRIMPING SOCKET D12/38 BEND 5	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL





 JE/LDO	 JE/LDO	 WM/Design	 Dy.CEE/Design
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ANNEXURE 'B'

Page 2 of 2

(Technical and testing requirement of Annexure 'A')
For Supply of harnessed cable for DETC/US

36	U CRIMPING SOCKET D12/50 ICF/SK 72166	Drg. 077-7-2-166 & SPEC. EDTS 200, Rev. NIL
37	UNF FLEXIBLE CONDUIT NW36 DIA 40 MM	RDSO/PE/SPEC/AC/0138-2009, REV-1
38	WIRE END INSULATED FERRULE TO TYPE AI 2.5-12BU OF M/S.PHOENIX OR TYPE H 2.5 /18D OF M/S.WEID MULLER OR EQUIVALENT OF M/S. WAGO OR Type A02577 OF M/S.GLW GmbH Germany.	OEM/As described
39	WIRE END INSULATED FERRULE TO ITEM NO.216-204 OF M/S WAGO OR TYPE H1,5/14D SWBD OF M/S WEID MULLER OR TYPE AI 1,5-8BK OF M/S PHOENIX.	OEM/As described
40	CRIMPING SOCKET TO CAT.NO.CP-27 OF M/S.DOWELL	OEM/As described
41	SHRINKDOWN SLEEVE /Printed SD sleeve	CLW/ES/3/0154,Alt 'R'
42	CABLE JACKET SYSTEM 40 mm	EDTS-138, REV.0, CORR.1, ITEM-11
43	CABLE JACKET SYSTEM 20mm	EDTS-138 REV-0, CORR.1, ITEM-8.
44	CABLE JACKET SYSTEM 10mm	EDTS-138, REV-0, CORR.1, ITEM-5.
45	Lead coated D.H. LUG TERMINAL FOR 95 MM SQUARE CABLE.	Drg. EL/PT/0367_R2
46	HEX HEAD SCREW M8 X 20	CLW/MS/3/040, Alt 14
47	HEX HEAD SCREW M12 X 25	CLW/MS/3/040, Alt 14
48	HEX HEAD SCREW M10 X 25	CLW/MS/3/040, Alt 14
49	PLAIN WASHER M8	CLW/MS/3/040, Alt 14
50	PLAIN WASHER M10	CLW/MS/3/040, Alt 14
51	PLAIN WASHER M12	CLW/MS/10/053, Alt-6
52	SPRING WASHER B8	CLW/MS/3/040, Alt 14
53	SPRING WASHER B10	CLW/MS/3/040, Alt 14
54	SPRING WASHER B12	CLW/MS/3/040, Alt 14
55	EARTHING LUG M8	DRG.NO. ICF/MRVC/M-1-6-012/ COL-VII, ALT 'd' & SPEC. EDTS 200, Rev. NIL
56	EARTHING LUG M10	DRG.NO.ICF/MRVC/M-1-6-012/ COL-VIII,ALT 'd' & SPEC. EDTS 200, Rev. NIL
57	EARTHING LUG M12	DRG.NO. ICF/MRVC/M-7-1-014/ COL.I, ALT "a" & SPEC. EDTS 200, Rev. NIL

 JE/LDO	 JE/LDO	 WM/Design	 Dy.CEE/Design
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Pre-Qualification requirements
for “Set of Harnessed cable”

Additional Terms and conditions:

S. No	Description of requirement	Document to be attached
1	Bidder should submit a self-declaration stating that, “Offered item is same as per enquiry and there is no deviation”.	Self-declaration on letterhead of firm.
2	Data Sheet / Drawings / Catalogues of the product (s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection	Data Sheet / Drawings / Catalogues of the product (s)
3	Contract shall be awarded to only such bidder (OEM or reseller) who have supplied at least one set of harness for DETC Project in last Seven years.	Invoice copy with corresponding purchase order.

Terms Other than PQR to be compiled during Bidding:

Terms	Complied/Not Complied
Quoted SL NO.	
Delivery accepted as per Tender	
Mobile no of concerned Person	
Email ID	

Note: Bidders providing above documents and not meeting above criteria essential for Offer Consideration.

NO DEVIATION CERTIFICATE

Reference: Bid No. _____ Dated: _____

Subject: Self-Declaration for No Deviation

This is to certify that the items/services offered by us against the above-referred enquiry are **fully compliant** with the specifications, terms, and conditions mentioned in the bid document.

We hereby confirm that **there are no deviations** from the stipulated specifications, commercial terms, conditions, and other requirements of the enquiry.

For _____
(Authorized Signatory)

Date: _____

Seal:

OEM SELF-DECLARATION (FOR OEM)

Date: _____

Subject: **OEM Self-Declaration**

Ref: Bid No. _____

We certify that:

1. The bidder **M/s** _____ is the OEM** itself.
2. The product(s) offered are **new, genuine, and comply** with all specifications mentioned in the tender.
3. We shall provide full **warranty support, technical assistance, and spare parts** availability as required.

For **(Name of OEM)**

Authorized Signatory

Name: _____

Designation: _____

Seal:

OEM address:

**** OEM refers to (Original Equipment Manufacturer)**

B. OEM AUTHORIZATION CERTIFICATE (FOR BIDDER AS DEALER)

Date: _____

Subject: **OEM Authorization Certificate**

Ref: Bid No. _____

We, **(Name of Original Equipment Manufacturer – OEM)**, hereby authorize:

M/s _____
(Address: _____)

We confirm that:

1. Bidder is **authorized partner / dealer / distributor / bidder** for participating in the above-mentioned tender
2. The bidder is authorized to **quote, supply, install (if any), and support** our products.
3. The products offered will be **genuine, brand-new, and manufactured by us (OEM)**.
4. We will provide full **warranty support, technical support, and spare parts (wherever applicable)** for the supplied equipment throughout the warranty/AMC period.

For **(Name of OEM)**

Authorized Signatory

Name: _____

Designation: _____

Seal:

**** OEM refers to (Original Equipment Manufacturer)**